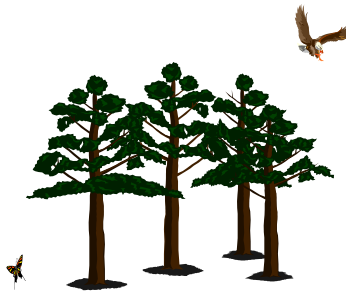




**FEDERAL AVIATION ADMINISTRATION**

**GREAT LAKES REGION  
AIRPORTS DIVISION**

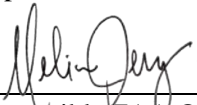
**Short Environmental  
Assessment Form  
for  
AIRPORT DEVELOPMENT  
PROJECTS**



Airport Name: Duluth International Airport Identifier: DLH

Project Title: Construction of an Airport-owned Air Traffic Control Tower and Enabling Projects

This Environmental Assessment becomes a Federal document when evaluated, signed, and dated by the Responsible FAA official.

 - Melissa Jenny - EPS DMA ADO  
\_\_\_\_\_  
Responsible FAA Official

11/3/2023  
\_\_\_\_\_  
Date

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**Complete the following information:**

**Project Location**

Airport Name: Duluth International Airport Identifier: DLH  
Airport Address: 4701 Grinden Drive  
City: Duluth County: St. Louis State: Minnesota Zip: 55811

**Airport Sponsor Information**

Point of Contact: Mark Papko, A.A.E. | Director of Operations with Duluth Airport Authority  
Address: 4701 Grinden Drive  
City: Duluth State: Minnesota Zip: 55811  
Telephone: 218-727-2968 Fax:  
Email: mpapko@duluthairport.com

**Evaluation Form Preparer Information**

Point of Contact: Natalie White, PWS | Sr. Biologist  
Company (if not the sponsor): Short Elliott Hendrickson Inc. (SEH®)  
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City: Duluth State: Minnesota Zip: 55802  
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Email: nwhite@sehinc.com

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**1. Introduction/Background:**

The Duluth Airport Authority (DAA), as the sponsor of the Duluth International Airport (DLH or Airport), is proposing to replace the existing Air Traffic Control Tower (ATCT) with the construction of a new ATCT and Terminal Radar Approach Control (TRACON) facility at the site identified during the FAA’s Airway Facilities Tower Integration Laboratory (AFTIL) (Proposed Action).

The location of DLH is depicted in **Figure 1**. The location of the existing ATCT is depicted in **Figure 3**.

The existing ATCT was constructed in the late 1950s on top of the old terminal building (see **Appendix A** for photos of the existing ATCT). As indicated during the AFTIL study, the existing ATCT does not meet FAA standards for an ATCT. These standards include being deficient in line-of-sight requirements, providing adequate controller eye height (the ATCT controller cab is too low), and minimum space requirements. The existing ATCT continues to have deteriorating conditions, and the cost to maintain the tower in a functional condition continues to increase. The existing facility also includes an FAA-staffed TRACON facility.

A control tower is not eligible for funding under the FAA’s Airport Improvement Program (AIP). Also, the Federal government does not own the facility; therefore, the FAA has limited mechanisms to invest in the existing control tower. These conditions have historically limited the ability of the Airport to replace the aging airport-owned facility. The FAA Airport Terminal Program (ATP) made available under the Infrastructure Investment and Jobs Act of 2021 (IIJA), Public Law 117-58, provides opportunities for competitive grant funding for airport-owned ATCTs such as the DLH



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ATCT. The DAA intends to seek FAA ATP funding and has also applied for State of Minnesota Bond funding to fund the ATCT replacement.

DLH recently completed a comprehensive master planning effort to inform future planning and redevelopment around the airport. This planning effort included evaluating sites for an ATCT. The FAA completed a site selection process (2022-2023) through the AFTIL process to identify the proposed site. The AFTIL siting process was completed on September 21, 2022. A requirement prior to the siting report being approved is for the DAA to notify the tenants of the aviation-related impacts of the proposed ATCT. This notification through various distribution lists of tenants and users was sent on June 1<sup>st</sup> and June 2<sup>nd</sup> of 2023. The siting report was approved on August 14, 2023. The siting report can be viewed in **Appendix B**.

This Environmental Assessment (EA) identifies and considers potential environmental impacts related to the Proposed Action and has been prepared pursuant to the requirements of Section 102(2) of the National Environmental Policy Act of 1969 (NEPA) and Section 509(b)(5) of the Airport and Airway Improvement Act of 1982, as amended. To meet those requirements, the EA has been prepared in accordance with Federal Aviation Administration (FAA) Order 1050.1F, Environmental Impacts: Policies and Procedures, and FAA Order 5050.4B, National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions. As the lead Federal Agency, the FAA will ensure compliance with NEPA for the Proposed Action. The DAA has prepared this EA, in compliance with FAA Orders 1050.1F and 5050.4B, to evaluate the potential environmental impacts of the proposed project.

**2. Project Description** (List and clearly describe ALL components of project proposal including all connected actions). **Attach a map or drawing of the area with the location(s) of the proposed action(s) identified:**

- **Construction of the New ATCT**

This proposed action includes the construction of a new ATCT that will meet the requirements outlined in the FAA's Requirements Document Workbook. This will include the construction of a tower structure at the location identified during the AFTIL study, a base building, appropriately sized, which will include offices, training rooms, and other support facilities for the operation of the TRACON and the ATCT and a vehicle parking lot as required by the FAA. The ATCT will also provide space for the FAA Tech Ops team based at DLH. **Figure 2** shows the proposed ATCT development site and the existing conditions around the proposed site.

In December 2022, the FAA conducted an aeronautical review of the proposed structure as discussed above (ASN 2022-AGL-12999-NRA, ASN 2022-AGL-13000-NRA, ASN 2022-AGL-13001-NRA, and ASN 2022-AGL-13002-NRA). The Flight Procedures Office determined the proposed ATCT would have impacts to the existing instrument flight rules at DLH. The Airport Authority communicated with all tenants on June 1, 2023, regarding these impacts. As noted by the OE/AAA process, the proposed ATCT would have the following impacts on Instrument Flight Rules (IFR) operations: IFR EFFECT-Duluth, MN Duluth Intl (DLH):

- ASR RADAR-1 RWY 3 MDA/HAT from 1820/400 to 1840/420 (NEH 1568 AMSL).

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- RNAV (GPS) RWY 3 LNAV MDA/HAT from 1820/400 to 1840/420 (NEH 1550 AMSL).
  - VOR or TACAN RWY 3 MDA/HAT from 1820/400 to 1840/420 (NEH 1570 AMSL).
  - Structure must be lighted with red obstruction lights in accordance with FAA Advisory Circular 70/7460-1.
  - The final design of the ATCT and base building will have to be evaluated for any impacts to the Runway 09 CAT II Localizer.
- **Reconstruction and Realignment of Stebner Road**

This road section is located on the south side of the airport providing access to the DAA-owned Snow Removal Equipment (SRE) building and the Civil Air Patrol (CAP) building located east of the ATCT site. Based on a pavement condition index (PCI) study completed in 2021, the asphalt concrete pavement in this section is in a failed condition and needs reconstruction. No recorded right-of-way exists for this road. During the PCI study, it was concluded that the Airport is responsible for the pavement, and neither the City of Duluth nor St. Louis County maintains this roadway. The roadway would need to be reconstructed whether or not the ATCT is constructed. Per FAA requirements, a site of at least approximately three (3) acres is needed for the development of the ATCT. To meet this requirement and to provide enough space for all the required facilities of the ATCT, this road must be realigned, as shown in **Figure 3**. The reconstruction and realignment of the roadway would require the demolition of Building 306 (“DHL building,” a cold storage building owned and utilized by DAA). Access to the CAP building would continue to be provided from the relocated Stebner Road. Access to the CAP building would be provided throughout construction. If needed, access can be provided temporarily from Malstrom St. to the north of Hydrosolutions, which is a nearby business.
  - **Temporary Access Road for the Civil Air Patrol Facility and Realignment of Parking Lot Access to “Jet Duluth” Hangar**

A temporary access road for the Civil Air Patrol Facility would be required. The access to the parking of the “Jet Duluth” hangar would need to be realigned.
  - **Demolition of Building 306 (DHL Building/Cold Storage)**

Building 306 (the DHL Building, see **Figure 3**) is a pre-engineered metal cold storage building and is currently used as a cold storage building by the DAA. With the reconstruction and realignment of Stebner Road, as discussed above, the building would need to be demolished to allow for the road realignment. DAA storage uses would be relocated to other DAA-owned buildings.
  - **Demolition of Hermantown Hydraulics Building**

The Hermantown Hydraulics building (See **Figure 3**) is located at the site of the proposed ATCT development. The building would need to be demolished for the construction of the ATCT. The DAA owns the building and is currently leased on a month-to-month basis to Hermantown Hydraulics (tenant). Because the building is in poor condition (building condition assessment completed in 2019) and the area was identified for redevelopment in the Master Plan, the DAA did not execute a long-term lease extension. The lease is renewed, if appropriate, month-to-month. The tenant is aware that the site is being redeveloped and that their lease will not be renewed in the near future.

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- **Vacating Platted Drainage and Utility Easements**

Several platted utility and drainage easements are located in the Proposed Action area. These easements are platted public interest, in which the City of Duluth is the administrator of the easements. The Airport would work with the City of Duluth to vacate the easements in this area based on the final site plan and utility layout needs. The project would include the recording of any future utility easements as necessary to serve the development site. A discussion on the easements impacted by the Proposed Action is included below in “Section 5. Alternatives to the Project.”

- **Removal of the existing ATCT**

As part of the construction of the new ATCT facility, the existing tower facility would also need to be removed as the existing tower blocks clear site lines from the new ATCT to the movement area (see **Figure 3**). The structure where the existing ATCT is located is a multi-story building previously utilized as the Airport’s terminal building. The structure currently houses ATCT facilities. Two businesses lease space in the building. The lease for one entity (Lake Superior Helicopters) will expire in December 2023 (prior to building demolition). The other tenant's (RS&H) lease has expired, and they are on a month-to-month lease. One of the businesses is currently pursuing other building locations/options at DLH because the current space does not meet their needs. This connected action is the demolition of the entire multi-story facility because the condition of the building has deteriorated such that maintaining the facility is not feasible. As part of the recent planning effort by the Airport, a building condition assessment of this structure was conducted. During the building condition assessment, numerous existing openings in the brick masonry of portions of the wall on the north side of the old terminal building that appeared to be infilled with studs and wood cladding were documented. Water intrusion along pipes, conduit penetrations through the concrete foundation wall in the basement mechanical room, and ponding on the existing concrete floor slab were also noted. The existing ATCT site would be repurposed with near-term use expected to accommodate winter snow storage from snow removal operations.

- **FAA installation of electronic equipment**

The FAA will install its own electronic equipment, included but not limited to; Radar, Communication, Weather, and Navaid equipment etc., after construction of the ATCT is completed and before the facility is operational.

The Sponsor’s Proposed Action entails the construction of a new ATCT and enabling projects pursuant to FAA Order 1050.1F, Paragraph 8-7 (see **Figure 2** and **Figure 3**).

The major Federal Action includes:

1. **Determination of eligibility for federal assistance under the federal grant-in-aid program authorized by the Airport and Airway Improvement Act of 1982, as amended (49 USC 47101, et.seq).**
2. **Approval of an application for federal assistance for eligible components of the proposed project using federal funds from the AIP.**
3. **Unconditional Approval of the portion of the ALP that depicts the components of the proposed project pursuant to 49 USC Sections 40103(b), 44718, and 47101 (a)(16) and Title 14 CFR Parts 77 and 157.**
4. **Increase in the Minimum Descent Altitudes (MDA) on approaches to RWY 3.**

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### **3. Project Purpose and Need:**

The purpose of the Proposed Action is to construct a new, Airport-owned, ATCT that meets the requirements as outlined in the Federal Aviation Administration's Air Traffic Organization (ATO) Requirements Document Workbook that was developed following the FAA Airport Facilities Terminal Integration Laboratory (AFTIL) study. The need for the Proposed Action is due to the existing ATCT being over 70 years old and past its useful life. Also, the existing ATCT does not meet the FAA's minimum siting requirements. The replacement ATCT would enable the installation of modern and required air traffic control equipment, provide adequate space and an enhanced work environment, lower operating costs, and improve environmental performance.

### **4. Describe the affected environment (existing conditions) and land use in the vicinity of the project:**

The affected environment, henceforth referred to as the project area, is the existing Hermantown Hydraulics site and its immediate surroundings (also referred to herein as ATCT Site A and referred to as Site 6 in the Siting Report), Stebner Road in its current and proposed alignments adjacent to Hermantown Hydraulics, Building 306, and the existing ATCT. The existing environmental conditions are comprised of impervious surface and maintained turf vegetation. The project area is located within previously disturbed and developed Airport property (**Figures 1, 2, and 3**). Hermantown Hydraulics leases land from the Airport to operate the public business. The lease is currently month-to-month, and it has been previously communicated to the Owner of the business that this site was preferred for aeronautical development. Phase I and Phase II ESAs were completed for this site (**Appendix C**). The immediate surroundings of the project area consist of airfield facilities (taxilanes, hangars, and aeronautical manufacturing facilities), pavement, maintained turf vegetation, a non-public diesel fuel tank for Airport use, and local roads (Airport Road, Stebner Road, and Lackland Street).

A Phase I Environmental Site Assessment (ESA) was conducted at ATCT Site A (Site 6) and identified Recognized Environmental Conditions (RECs). A Phase II report was recommended. A Phase II was completed by the Duluth Airport Authority (DAA) which confirmed the presence of contamination. The Phase I ESA and Phase II ESA reports are included in **Appendix C**. As a result of the Phase II there were several recommendations for the subject property. Based on these recommendations the DAA has agreed to remediate Site 6 to the satisfaction of the FAA and the regulatory authorities, at their own risk, prior to the beginning of construction. The sponsor letter agreeing to remediation is included in **Appendix D**.

### **5. Alternatives to the Project: Describe any other reasonable actions that may feasibly substitute for the proposed project and include a description of the "No Action" alternative. If there are no feasible or reasonable alternatives to the proposed project, explain why (attach alternatives drawings as applicable):**

During the FAA's AFTIL process alternatives were evaluated for the construction of the new ATCT at DLH. The existing control tower cannot be replaced in its existing location because it does not meet FAA standards. Construction and demolition in the existing location would disrupt air traffic control services during construction and demolition. Additionally, if the ATCT was constructed in the current location at the required height to meet the FAA's siting criteria, there would be negative impacts on the Runway 9 Category II Instrument Landing System (ILS CAT II) approach, making

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the airport less useable during inclement weather due to the location and height of the new ATCT. The AFTIL siting report discusses these alternatives in detail.

### **Site Alternative – Construct ATCT at AFTIL Study Site B**

ATCT Site B, as shown in **Figure 4**, was evaluated during the FAA AFTIL Study as Site 3. Alternative B evaluated the construction of a control tower between the existing Airport-owned Snow Removal Equipment (SRE) building and Monaco Air, the Fixed Based Operator (FBO). This site is in previously developed and disturbed areas of Airport property. Like the proposed action, the DHL Cold Storage building would need to be demolished to provide the required 3-acre site. DLH master planning efforts identified this for the development of aeronautical use-type facilities such as aircraft hangars. The airport has limited development space. Ensuring adequate space for the growth and expansion of aviation-related industries is a priority of the Airport. An airport is a vital part of the local economy, and it is crucial that there is sufficient space for the construction of aircraft hangars and other infrastructure required by businesses in the aviation sector. An ATCT would require a significant amount of land, which could be better utilized for the purposes of supporting the development of high-demand aeronautical uses in this area with direct apron access. A preliminary site layout was developed to determine the footprint of the proposed ATCT site. This preliminary layout is shown in **Figure 5**.

Because this site impacts the future ability of the airport to meet documented aeronautical needs of additional hangar development area, it was dismissed from further consideration.

### **No Action Alternative**

The No Action Alternative is considered for purposes of comparison. The No Action Alternative would leave the existing ATCT in its current location and would not meet the FAA’s siting criteria for an ATCT. Continued operation of the ATCT in this location would require substantial improvements and upgrades to maintain the existing level of operations.

### **Proposed Action Alternative - Construct ATCT at AFTIL Study Site A**

ATCT Site A (Site 6 in the Siting Report), as shown in **Figure 4**, was evaluated during the FAA AFTIL Study. This option evaluated constructing a control tower at the site shown in **Figure 4** at the determined minimum height for this location. This location is slightly less than three acres. This alternative is located on the site of the existing Hermantown Hydraulics building, which is owned by DAA and leased on a month-to-month basis to Hermantown Hydraulics with the understanding that the lease will end when the DAA elects to redevelop the site. During the master planning process, this area was identified to be reserved for an aeronautical type of facility or airport support facility since this location did not provide convenient aircraft access to the airfield but was still closely situated to the Air Operations Area (AOA). This alternative would require the demolition of the Hermantown Hydraulics building. The Phase I and Phase II ESAs were completed at the request of the FAA’s Technical Operations (TechOps) Team and is included in **Appendix C**. FAA evaluated this Alternative during the AFTIL process and concurred that this site would meet the requirements of a new ATCT. This site was the top-rated site in the selection process.

The Proposed Action includes the demolition of the existing ATCT structure, Hermantown Hydraulics, and Building 306/the DHL building; reconstruction and realignment of Stebner Road; constructing a temporary access road for the Civil Air Patrol Facility; realigning parking lot access to the “Jet Duluth” hangar; and vacating platted utility and drainage easements. The locations of the activities of the Proposed Action are shown in **Figures 3 and 6**.

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An approximately 3-acre site is being reserved for construction. Access to the construction site will be through construction haul routes along Airport Road and Stebner Road. Access to the SRE building will be maintained utilizing the FBO access road to the east, and temporary access to the Civil Air Patrol (CAP) will be provided via Malstrom Street to the north of the CAP site. Contractor storage will take place within the project construction limits. The Jet Duluth Hangar parking lot will be realigned to allow access in and out via the access point on the west side of the parking lot, as shown in **Figure 6**. Stormwater treatment will be provided, as shown in **Figure 6**, which depicts a preliminary site layout. As discussed above, there are several City-owned utility easements in the location of the preferred alternative. **Figure 6A** shows the location of these rights-of-way and easements as currently recorded on the draft Exhibit A property map on file with the FAA's Airports District Office (ADO). These will be vacated as deemed appropriate through the design process. New utility easements may be recorded as part of the project.

For the purposes of comparison, the Proposed Action was evaluated against the No Action Alternative. Because the No Action Alternative would leave the ATCT in its existing location, FAA siting requirements for the ATCT would not be met. The condition of the ATCT is deteriorating and would require substantial investment to maintain.

**6. Environmental Consequences – Special Impact Categories (refer to the Instructions page and corresponding sections in 1050.1F, the 1050.1F Desk Reference, and the Desk Reference for Airports Actions for more information and direction. Note that when the 1050.1F Desk Reference and Desk Reference for Airports Actions provide conflicting guidance, the 1050.1F Desk Reference takes precedence. The analysis under each section must comply with the requirements and significance thresholds as described in the Desk Reference).**

**(A) AIR QUALITY**

(1) Will the proposed project(s) cause or create a reasonably foreseeable emission increase? Prepare an air quality assessment and disclose the results. Discuss the applicable regulatory criterion and/or thresholds that will be applied to the results, the specific methodologies, data sources and assumptions used, including the supporting documentation and consultation with federal, state, tribal, or local air quality agencies.

No. The construction of a permanent source of emissions is not a component of the Proposed Action. The Proposed Action would not cause or create a reasonably foreseeable emission increase; therefore, a qualitative assessment of air quality impacts was completed. Only a minor and temporary increase in greenhouse gases (GHGs) – carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O) - emissions would occur from the operation of combustion-powered construction equipment during demolition and construction.

(2) Are there any project components containing unusual circumstances, such as emissions sources in close proximity to areas where the public has access, or other considerations that may warrant further analysis? If no, proceed to (3); if yes, an analysis of ambient pollutant concentrations may be necessary. Contact your local ADO regarding how to proceed with the analysis.

No. The Proposed Action does not contain unusual circumstances. Access to the ATCT by the public is restricted, and traffic in the area is limited to Airport support functions.

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(3) Is the proposed project(s) located in a nonattainment or maintenance area for the National Ambient Air Quality Standards (NAAQS) established under the Clean Air Act?

No. The City of Duluth is no longer a maintenance area for carbon monoxide (CO).

4) Are all components of the proposed project, including all connected actions, listed as exempt or presumed to conform (See FRN, vol.72 no. 145, pg. 41565)? If yes, cite exemption and go to (B) Biological Resources. If no, go to (5).

No.

(5) Would the net emissions from the project result in exceedances of the applicable *de minimis* threshold (reference 1050.1F Desk Reference and the *Aviation Emissions and Air Quality Handbook* for guidance) of the criteria pollutant for which the county is in non-attainment or maintenance? If no, go to (B) Biological Resources. If yes, stop development of this form and prepare a standard Environmental Assessment.

No.

### **(B) BIOLOGICAL RESOURCES**

Describe the potential of the proposed project to directly or indirectly impact fish, wildlife, and plant communities and/or the displacement of wildlife. Be sure to identify any state or federal species of concern (Candidate, Threatened or Endangered).

1) Are there any candidate, threatened, or endangered species listed in or near the project area?

No. The USFWS Information, Planning, and Consultation System (IPaC) identified seven (7) species with the potential to be affected by activities within or near the project area, including northern long-eared bat (*Myotis septentrionalis*), tricolored bat (*Perimyotis subflavus*), Canada lynx (*Lynx canadensis*), red knot (*Calidris canutus rufus*), the gray wolf (*Canis lupus*), piping plover (*Charadrius melodus*), and monarch butterfly (*Danaus plexippus*) (**Appendix E**). IPaC also identified mapped critical habitat for the Canada lynx within the project area. The USFWS Minnesota-Wisconsin DKey reached a “no effect” determination. (**Appendix E**). The NLEB key reached a “no effect” determination (**Appendix E**).

Suitable habitat for these species is not present within or adjacent to the project area as it consists of developed Airport property surrounded by facilities, roadways, parking lots, the airfield, and fencing to keep wildlife outside of the Airport. The project area does not include trees, which would be suitable for roosting by the northern long-eared bat. None of the buildings proposed for demolition are likely to serve as suitable habitat for the northern long-eared bat as they are not located near abundant food and water resources nor is open-air space for safe migration between winter and summer habitats present due to the Airport’s urban setting and ongoing operations at the Airport.

SEH reviewed the Minnesota Department of Natural Resources (MNDNR) Natural Heritage Inventory System (NHIS) under License Agreement #2022-033 for element occurrences of state-protected biological resources within one (1) mile of the project area. The review identified a historical record, from 1913, of the rusty-patched bumblebee (*Bombus affinis*). According to the

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USFWS Rusty Patched Bumble Bee High Potential Zone Map, the project area is not located in a potential zone. Suitable habitat for the rusty-patched bumble bee is not present within or adjacent to the project area.

(2) Will the action have any long-term or permanent loss of unlisted plants or wildlife species?

No. The Proposed Action would not have any long-term or permanent loss of unlisted plants or wildlife species. The project area consists of developed Airport property surrounded by facilities, roadways, parking lots, the airfield, and fencing to keep wildlife outside of the Airport.

(3) Will the action adversely impact any species of concern or their habitat?

No. The Proposed Action would not adversely impact any species of concern or their habitat. The project area consists of developed Airport property surrounded by facilities, roadways, parking lots, the airfield, and fencing to keep wildlife outside of the Airport.

(4) Will the action result in substantial loss, reduction, degradation, disturbance, or fragmentation of native species' habitats or populations?

No. The project area is comprised of developed Airport property within which construction and demolition activities will be restricted. Natural habitats would not be converted as a result of the Proposed Action. Therefore, no loss, reduction, degradation, disturbance, or fragmentation of native species' habitats or populations would result from the Proposed Action.

(5) Will the action have adverse impacts on a species' reproduction rates or mortality rate or ability to sustain population levels?

No. Adverse impacts on a species' reproduction or mortality rates or ability to sustain population levels would not result from the Proposed Action.

(6) Are there any habitats, classified as critical by the federal or state agency with jurisdiction, impacted by the proposed project?

Yes. According to the USFWS IPaC, critical habitat for the federally threatened Canada lynx (*Lynx canadensis*) is mapped across the project area.

(7) Would the proposed project affect species protected under the Migratory Bird Act? (If **Yes**, contact the local ADO).

The Proposed Action would have *no effect* on species protected under the Migratory Bird Act because suitable habitat to support migratory bird species is not present within the project area. DLH has developed a Wildlife Hazard Management Plan with practices to limit wildlife attractants. This includes maintaining turf vegetation to a height of 3-14 inches to limit foraging and nesting by migratory birds on Airport property.

If the answer to any of the above is "Yes," consultation with the USWFS and appropriate state agencies is required and attach all correspondence and documentation, including IPaC.



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Consultation with the USFWS was completed through IPaC; the results are included in **Appendix E**. Mapped critical habitat for the Canada lynx occurs across the project area; however, the project area is comprised of previously disturbed and developed land within Airport property that is not suitable habitat for the Canada lynx. Additionally, the Airport is fenced and the DAA follows its Wildlife Hazard Management Plan to mitigate wildlife from entering Airport property. The Proposed Action, as compared to the No Action Alternative, will neither destroy nor create suitable habitat for the Canada lynx. For these reasons, *no effect* to the Canada lynx is anticipated by the Proposed Action.

**(C) CLIMATE**

(1) Would the proposed project or alternative(s) result in the increase or decrease of emissions of Greenhouse gases (GHG)? If neither, this should be briefly explained and no further analysis is required and proceed to (D) Coastal Resources.

Yes. The Proposed Action would result in a temporary and minor increase in emissions of GHG during construction and demolition activities. The Proposed Action would not result in a change in the number of aircraft operations, fleet mix, runway use, or flight patterns compared to the No Action Alternative. However, based on the FAA's Obstruction Evaluation and Airport Airspace Analysis (OE/AAA) for the proposed action, as discussed above, there will be a change to the instrument approach procedures (IAP) resulting in a higher MDA than what currently is published for various Runway 3 IAPs at DLH. This will result in aircraft needing to determine if they continue with the approach procedure at a higher altitude than what the IAP currently requires. Aircraft operations, flight patterns or runway usages are not anticipated to occur due to this change.

As such, only a qualitative analysis of emissions was completed. Only a minor and temporary increase in GHGs – carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O) - emissions would occur from the operation of combustion-powered construction equipment during demolition and construction.

Therefore, no changes in permanent GHG emissions would be associated with the Proposed Action.

(2) Will the proposed project or alternative(s) result in a net decrease in GHG emissions (as indicated by quantitative data or proxy measures such as reduction in fuel burn, delay, or flight operations)? A brief statement describing the factual basis for this conclusion is sufficient.

No. The Proposed Action would not result in a change in the number of aircraft operations, fleet mix, runway use, or flight patterns compared to the No Action Alternative. Therefore, no net decrease in GHG emissions would be associated with the Proposed Action. Based on the FAA's Obstruction Evaluation and Airport Airspace Analysis (OE/AAA) for the proposed action, as discussed above, there will be a change to the instrument approach procedures (IAP) resulting in a higher MDA than what currently is published for various Runway 3 IAPs at DLH.

(3) Will the proposed project or alternative(s) result in an increase in GHG emissions? Emissions should be assessed either qualitatively or quantitatively as described in 1050.1F Desk Reference or Aviation Emissions and Air Quality Handbook.

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The Proposed Action would result in a temporary and minor increase in emissions of GHG during construction and demolition activities. No permanent changes to GHG emissions would result from the Proposed Action when compared with the No Action Alternative.

**(D) COASTAL RESOURCES**

(1) Would the proposed project occur in a coastal zone, or affect the use of a coastal resource, as defined by your state's Coastal Zone Management Plan (CZMP)? Explain.

Yes. DLH is within Minnesota's Lake Superior Coastal Program (LSCP). The Proposed Action is located within existing airport property and consistent with existing land use in the Airport. .

(2) If **Yes**, is the project consistent with the State's CZMP? (If applicable, attach the sponsor's consistency certification and the state's concurrence of that certification)

Coordination with the MNDNR Coastal Program for a federal consistency determination is underway. Once received, the federal consistency determination as well as any comments received from the MNDNR Coastal Program will be added to this EA.

(3) Is the location of the proposed project within the Coastal Barrier Resources System? (If **Yes**, and the project would receive federal funding, coordinate with the FWS and attach record of consultation).

No. DLH is located approximately nine (9) miles from the nearest Coastal Barrier Resource System.

**(E) SECTION 4(f) RESOURCES**

(1) Does the proposed project have an impact on any publicly owned land from a public park, recreation area, or wildlife or waterfowl refuge of national, state, or local significance, or an historic site of national, state, or local significance? Specify if the use will be physical (an actual taking of the property) or constructive (i.e. activities, features, or attributes of the Section 4 (f) property are substantially impaired.) If the answer is "No," proceed to (F) Farmlands.

No Section 4(f) properties occur within the study area (i.e., the area of potential effect (APE)) of the Proposed Action. **Figure 1 of Appendix F** depicts the APE.

The Proposed Action includes the demolition of the existing ATCT structure, the Hermantown Hydraulics building, and Building 306. A Reconnaissance Architectural History Survey report was completed in 2021 (**Appendix F**). This report did not recommend the existing ATCT structure or Building 306 (the DHL building) for further intensive survey due, as quoted from the report, "to a lack of historical significance and/or a loss of integrity." The report did not evaluate the Hermantown Hydraulics building. However, the Hermantown Hydraulics building was evaluated by a supplemental architectural history survey report that was completed in 2023 (**Appendix F**). This report did not recommend the Hermantown Hydraulics building for further intensive survey due to a lack of historical significance.

(2) Is a *De Minimis* impact determination recommended? If "yes", please provide; supporting documentation that this impact will not substantially impair or adversely affect the activities, features, or attributes of the Section 4 (f) property; a Section 106 finding of "no adverse effect" if historic properties are involved; any mitigation measures; a letter from the official with jurisdiction

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concurring with the recommended *de minimis* finding; and proof of public involvement. (See Section 5.3.3 of 1050.1F Desk Reference). If “No,” stop development of this form and prepare a standard Environmental Assessment.

Yes. On August 25, 2023, the FAA submitted a Section 106 finding of No Historic Properties Affected to the State Historic Preservation Office (SHPO) for review and concurrence. The SHPO concurred with this determination on November 1, 2023, included in **Appendix G**.

**(F) FARMLANDS**

Does the project involve acquisition of farmland, or use of farmland, that would be converted to non-agricultural use and is protected by the Federal Farmland Protection Policy Act (FPPA)? (If **Yes**, attach record of coordination with the Natural Resources Conservation Service (NRCS), including form AD-1006.)

No. The project area is located within previously disturbed and developed Airport property. No farmland conversion will result from the Proposed Action. The Proposed Action would have no effect on resources protected by the Federal Farmland Protection Policy Act. Indirect impacts to farmland are not anticipated because the activities of the Proposed Action are restricted to existing Airport property. Raised approach minimums would not have impacts on livestock. No commercial livestock operations occur nearby the airport.

**(G) HAZARDOUS MATERIALS, SOLID WASTE, AND POLLUTION PREVENTION**

(1) Would the proposed project involve the use of land that may contain hazardous materials or cause potential contamination from hazardous materials? (If Yes, attach record of consultation with appropriate agencies). Explain.

Yes. Phase I and Phase II ESAs were completed in 2023 to identify potential contamination and hazardous materials. These reports are included in **Appendix C**. Petroleum-impacted soil was identified below the building floor slab for Hermantown Hydraulics in the shop area. Outside of the building’s footprint, several areas of low-level petroleum impacts in soil were identified, but the concentrations were below regulatory criteria.

As part of the Proposed Action, minimal excavation is anticipated and would be limited to the removal of concrete footings and the abandonment of subsurface utilities. Contamination is anticipated to be encountered during excavation activities at the site of Hermantown Hydraulics. It would be appropriately managed in accordance with the MPCA’s risk-based approach to cleanup as summarized in its guidance document entitled Brownfield Program Response Action Plans c-rem4-43. Additional non-heating season soil vapor testing was completed. The report is included in **Appendix C**. Based on the analytical testing results from two rounds of sampling conducted during the heating and non-heating seasons, VOCs are not present in soil vapor at concentrations exceeding 33X the Commercial/Industrial ISVs below the existing building at the Subject Property, the footprint of which generally corresponds to the proposed air traffic control tower. Therefore, installation of a sub-slab vapor mitigation system below the proposed Subject Property building is not recommended. However, in the event, the size of the proposed building exceeds 5,000 square feet or the location of the proposed building changes, additional soil vapor sampling may be necessary to evaluate the vapor intrusion pathway. SEH will prepare a site-specific Response Action Plan (RAP) incorporating the results of the testing once ATCT design plans are completed. Following the completion of the ATCT design plans, the RAP will be submitted to the MPCA for

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review and approval. The approved RAP will be provided to the FAA. Once the RAP is completed, any other requirements from the MPCA will be enacted. Any additional contamination encountered during construction and demolition will be reported to the Minnesota duty officer.

(2) Would the operation and/or construction of the project generate significant amounts of solid waste? If **Yes**, are local disposal facilities capable of handling the additional volumes of waste resulting from the project? Explain.

Yes, the demolition of the existing ATCT structure, the Hermantown Hydraulics building, and Building 306 will generate solid waste. Regulated/hazardous materials assessments will be completed by destructive testing prior to the initial phase of demolition. Any regulated/hazardous materials will be handled and reported following all applicable local, state, and federal regulations.

No concerns have been identified regarding landfills being able to accept material based on space constraints.

The No Action Alternative would not generate waste or limit landfill capacity; however, the No Action Alternative would not meet the project's purpose and need.

(3) Will the project produce an appreciable different quantity or type of hazardous waste? Will there be any potential impacts that could adversely affect human health or the environment?

The sponsor does not anticipate producing an appreciably different quantity or type of hazardous waste. Any regulated/hazardous materials will be handled and reported following all applicable local, state, and federal regulations. A site-specific Remedial Action Plan (RAP) will be prepared prior to project initiation, incorporating findings of the Phase II ESA and additional non-heating season soil vapor testing. The RAP will be submitted to the MPCA for approval.

## **(H) HISTORIC, ARCHITECTURAL, ARCHEOLOGICAL, AND CULTURAL RESOURCES**

(1) Describe any impact the proposed project might have on any properties listed in, or eligible for inclusion in the National Register of Historic Places. (Include a record of consultation and response with the State or Tribal Historic Preservation Officer (S/THPO)).

No properties that are within the APE of the Proposed Action are listed in or eligible for inclusion in the NRHP. The APE is depicted on **Figure 1** of **Appendix F**.

The Proposed Action includes the demolition of the existing ATCT structure, the Hermantown Hydraulics building, and Building 306. A Reconnaissance Architectural History Survey report was completed in 2019 (**Appendix F**). This report did not recommend the existing ATCT structure or Building 306 (the DHL building) for further intensive survey due, as quoted from the report, "to a lack of historical significance and/or a loss of integrity." The report did not evaluate the Hermantown Hydraulics building. However, the HH building was evaluated by a supplemental architectural history survey report that was completed in 2023 (**Appendix F**). This report did not recommend the Hermantown Hydraulics building for further intensive survey due to a lack of historical significance.

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(2) Describe any impacts to archeological resources as a result of the proposed project. (Include a record of consultation with persons or organizations with relevant expertise, including the S/THPO, if applicable).

There is a low likelihood for intact archeological resources being present within the Proposed Action's APE because the APE is comprised of areas subject to ground disturbance as a result of past development. Past Phase I archaeological surveys conducted in 2004 and 2005 for the construction of a perimeter road and in support of an integrated cultural resources management plan for the Air National Guard Base, respectively, found no previously recorded sites nor unrecorded archaeological resources.

On August 25, 2023, the FAA submitted a Section 106 finding of No Historic Properties Affected to the SHPO for review and concurrence. SHPO concurred with this determination on November 1, 2023, included in **Appendix G**.

On August 25, 2023, the FAA emailed an invitation to consult for the project under 36 CFR 800.3 to Fond du Lac Band of Lake Superior Chippewa, the Bois Forte Band of Chippewa, and the Grand Portage Band of Lake Superior Chippewa, included in **Appendix G**.

**(I) LAND USE**

(1) Would the proposed project result in other (besides noise) impacts that have land use ramifications, such as disruption of communities, relocation of residences or businesses, or impact natural resource areas? Explain.

No. The Proposed Action would occur within Airport property, which is consistent with existing Airport land uses. The Proposed Action would result in the relocation of one business (Hermantown Hydraulics). No relocation of residences, disruption of established communities, or planned development would result.

The No Action Alternative would not result in the relocation of any residences or businesses.

(2) Would the proposed project be located near or create a wildlife hazard as defined in FAA Advisory Circular 150/5200-33, "Wildlife Hazards On and Near Airports"? Explain.

No. The Proposed Action would not be located near or create a wildlife hazard as defined in FAA Advisory Circular 150/5200-33C. The project area is previously disturbed and developed land that does not contain habitat/vegetation that would sustain or attract wildlife. The DAA would continue to maintain the proposed project area in accordance with the DLH Wildlife Hazard Management Plan.

(3) Include documentation to support sponsor's assurance under 49 U.S.C. § 47107 (a) (10), of the 1982 Airport Act, that appropriate actions will be taken, to the extent reasonable, to restrict land use to purposes compatible with normal airport operations.

The project area is within the secure area of the Airport, and the sponsor intends to continue using it for aeronautical purposes.

The No Action Alternative would have no effect on land use.

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**(J) NATURAL RESOURCES AND ENERGY SUPPLY**

What effect would the project have on natural resource and energy consumption? (Attach record of consultations with local public utilities or suppliers if appropriate)

The Proposed Action would not result in a significant effect on natural resources or energy supply. Construction and demolition activities of the Proposed Action would temporarily increase energy consumption, i.e., fuel consumption. Operations of the Airport would not change under the Proposed Action as compared with the No Action Alternative.

**(K) NOISE AND NOISE-COMPATIBLE LAND USE**

Will the project increase noise by DNL 1.5 dB or more for a noise-sensitive area that is exposed to noise at or above the DNL 65 dB noise exposure level, or that will be exposed at or above the DNL 65 dB level due to a DNL 1.5 dB or greater increase, when compared to the no action alternative for the same timeframe? (Use AEM as a screening tool and AEDT 2b as appropriate. See FAA Order 1050.1F Desk Reference, Chapter 11, or FAA Order 1050.1F, **Appendix B**, for further guidance). Please provide all information used to reach your conclusion. If yes, contact your local ADO.

No. The Proposed Action would not result in a change in the number of aircraft operations, fleet mix, runway use, or flight patterns as compared to the No Action Alternative. Therefore, the Proposed Action would not change noise exposure in the vicinity of the Airport. As discussed above there will be a change to the instrument approach procedures (IAP). This will result in aircraft needing to determine if they continue with the approach procedure at a higher altitude than what the IAP currently requires. Aircraft operations, flight patterns or runway usages are not anticipated to occur due to this change. There would be brief and localized increases in noise associated with demolition activities of the Proposed Action; however, these would occur within Airport property where the noise environment is dominated by aircraft operations.

**(L) SOCIOECONOMICS, ENVIRONMENTAL JUSTICE, and CHILDREN'S HEALTH and SAFETY RISKS**

(1) Would the project cause an alteration in surface traffic patterns, or cause a noticeable increase in surface traffic congestion or decrease in Level of Service?

The Proposed Action would result in an alteration in surface traffic patterns. A temporary increase in vehicular trips to and from the project area would occur during the construction and demolition activities of the Proposed Action. Work hours would be coordinated with the DAA to reduce the temporary impact on the surface traffic network around the Airport. If necessary during the construction of the relocation of Stebner Road, temporary access would be provided to Hydrosolutions, which is an existing business near the project area.

(2) Would the project cause induced, or secondary, socioeconomic impacts to surrounding communities, such as changes to business and economic activity in a community; impact public service demands; induce shifts in population movement and growth, etc.?

No. The Proposed Action would not affect surrounding communities. The demolition activities are restricted to Airport property and are temporary. The Proposed Action would create temporary construction jobs. This could have a temporary positive impact on local economic activity and would not negatively impact public service demands or cause population shifts.

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(3) Would the project have a disproportionate impact on minority and/or low-income communities? Consider human health, social, economic, and environmental issues in your evaluation. Refer to DOT Order 5610.2(a), which provides the definition for the types of adverse impacts that should be considered when assessing impacts to environmental justice populations.

No. The Proposed Action would not result in disproportionate impacts on minority and/or low-income communities. According to the Standard Report generated by the Environmental Protection Agency's (EPA) EJScreen web tool (**Appendix H**), the population within one (1) mile of the Airport is 13% minority and 7% low income. The State average is 21% minority and 23% low income. Construction and demolition activities of the Proposed Action will be localized and temporary within previously developed Airport property. The Proposed Action will not result in impacts to environmental categories that could have a disproportionate impact on minority and/or low-income communities, including air quality, noise, hazardous materials, water quality, or traffic.

(4) Would the project have the potential to lead to a disproportionate health or safety risk to children?

No. No schools or daycares are located within or adjacent to the project area of the Proposed Action. The closest school is Hermantown High School, which is approximately 2.25 miles southwest of the project area. The closest daycare is the Building Blocks Learning Center, which is approximately 1.25 miles southeast of the project area. The Proposed Action would not result in impacts to environmental categories that could have a disproportionate impact on children's environmental health and safety, including air quality, noise water quality, hazardous materials, or noise.

If the answer is "YES" to any of the above, please explain the nature and degree of the impact. Also provide a description of mitigation measures which would be considered to reduce any adverse impacts.

#### **(M) VISUAL EFFECTS INCLUDING LIGHT EMISSIONS**

(1) Would the project have the potential to create annoyance or interfere with normal activities from light emissions for nearby residents?

No. The Proposed Action would not have the potential to create an annoyance or interfere with normal activities from light emissions for nearby residents. The activities of the Proposed Action will occur within Airport property where lighting currently exists. Any temporary lighting required for the construction and demolition activities will be shielded and focused to avoid interference with aircraft operations and mitigate light spillover into the surrounding areas.

(2) Would the project have the potential to affect the visual character of nearby areas due to light emissions?

No. The Proposed Action would not have the potential to affect the visual character of nearby areas due to light emissions. Lighting will be installed around the building, as is typical for other structures in the vicinity.

(3) Would the project have the potential to block or obstruct views of visual resources?

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No. The visual character of the project area of the Proposed Action consists of Airport land uses. No visual resources are located near the Airport. As compared to the No Action Alternative, the Proposed Action would not significantly change the view of Airport land uses and associated structures.

If the answer is “YES” to any of the above, please explain the nature and degree of the impact using graphic materials. Also provide a description of mitigation measures that would be considered to reduce any adverse impacts.

**(N) WATER RESOURCES (INCLUDING WETLANDS, FLOODPLAINS, SURFACE WATERS, GROUNDWATER, AND WILD AND SCENIC RIVERS)**

**(1) WETLANDS**

(a) Does the proposed project involve federal or state regulated wetlands or non-jurisdictional wetlands? (Contact USFWS or appropriate state natural resource agencies if protected resources are affected) (Wetlands must be delineated using methods in the US Army Corps of Engineers 1987 Wetland Delineation Manual. Delineations must be performed by a person certified in wetlands delineation Document coordination with the resource agencies).

No. The project area of the Proposed Action is comprised of previously developed land. It is predominantly comprised of impervious surfaces with smaller areas of maintained turf vegetation.

(b) If yes, does the project qualify for an Army Corps of Engineers General permit? (Document coordination with the Corps).

Not applicable. The Proposed Action would not affect wetlands.

(c) If there are wetlands impacts, are there feasible mitigation alternatives? Explain.

Not applicable. The Proposed Action would not affect wetlands.

(d) If there are wetlands impacts, describe the measures to be taken to comply with Executive Order 11990, Protection of Wetlands.

Not applicable. The Proposed Action would not affect wetlands.

**(2) FLOODPLAINS**

(a) Would the proposed project be located in, or would it encroach upon, any 100-year floodplains, as designated by the Federal Emergency Management Agency (FEMA)?

No. According to FEMA FIRM Panel #2704210020B, the Proposed Action is not located in and would not encroach upon any 100-year floodplains. The FIRM Panel is not printed.

(b) If Yes, would the project cause notable adverse impacts on natural and beneficial floodplain values as defined in Paragraph 4.k of DOT Order 5620.2, *Floodplain Management and Protection*?



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Not applicable. The Proposed Action is not located in and would not encroach upon any 100-year floodplains.

(c) If Yes, attach the corresponding FEMA Flood Insurance Rate Map (FIRM) and describe the measures to be taken to comply with Executive Order 11988, including the public notice requirements.

Not applicable. The Proposed Action is not located in and would not encroach upon any 100-year floodplains.

### **(3) SURFACE WATERS**

(a) Would the project impact surface waters such that water quality standards set by Federal, state, local, or tribal regulatory agencies would be exceeded, or would the project have the potential to contaminate a public drinking water supply such that public health may be adversely affected?

No. Surface waters are not present within the project area of the Proposed Action.

(b) Would the water quality impacts associated with the project cause concerns for applicable permitting agencies or require mitigation in order to obtain a permit?

No. Although the Proposed Action would introduce additional impervious surface to the Airport, the runoff would be treated utilizing stormwater treatment BMPs before entering a surface water. Therefore, no significant change in water quality would occur as compared with the No Action Alternative.

If the answer to any of the above questions is “Yes”, consult with the USEPA or other appropriate Federal and/or state regulatory and permitting agencies and provide all agency correspondence.

### **(4) GROUNDWATER**

(a) Would the project impact groundwater such that water quality standards set by Federal, state, local, or tribal regulatory agencies would be exceeded, or would the project have the potential to contaminate an aquifer used for public water supply such that public health may be adversely affected?

No. The Proposed Action would not impact groundwater supply or groundwater recharge/discharge areas. No new groundwater wells are proposed by the Proposed Action. No significant impacts to groundwater are anticipated because of the Proposed Action as compared to the No Action Alternative. Groundwater impact due to the infiltration of petrochemicals from construction activities is not anticipated as construction will be completed by equipment with mobile fueling and if a release/spill occurs the contractor would be required to immediately cleanup/ respond to what would most likely be a surface spill.

(b) Would the groundwater impacts associated with the project cause concerns for applicable permitting agencies or require mitigation to obtain a permit?

No. The Proposed Action would not result in groundwater impacts.

(c) Is the project to be located over an EPA-designated Sole Source Aquifer?

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No. The Proposed Action is not located over an EPA-designated Sole Source Aquifer. The nearest EPA-designated Sole Source Aquifer is located approximately 72 miles away from DLH at Mille Lacs Lake in Minnesota.

If the answer to any of the above questions is “Yes”, consult with the USEPA or other appropriate Federal and/or state regulatory and permitting agencies and provide all agency correspondence as an attachment to this form.

**(5) WILD AND SCENIC RIVERS**

Would the proposed project affect a river segment that is listed in the Wild and Scenic River System or Nationwide River Inventory (NRI)? (If Yes, coordinate with the jurisdictional agency and attach a record of consultation).

No. The Proposed Action is not located within or near any river segments that are listed in the Wild and Scenic River System or the Nationwide River Inventory.

**(O) CUMULATIVE IMPACTS**

Discuss impacts from past, present, and reasonably foreseeable future projects both on and off the airport. Would the proposed project produce a cumulative effect on any of the environmental impact categories above? Consider projects that are connected and may have common timing and/or location. For purposes of this Form, generally use three years for past projects and five years for future foreseeable projects.

Projects at the Airport in the past three (3) years include ramp and apron pavement rehabilitation, taxiway reconstruction, the final phase of a full-depth runway reconstruction, and the demolition of Hangar 101. All these projects had temporary construction effects, which were mitigated by standard construction best management practices (BMPs).

Hangar 101 was a historical and Section 4(f) resource. Demolition had an adverse effect on this resource, which is currently being mitigated through documentation and the production of an interpretive display. This project’s Proposed Action does not involve an impact to historical or Section 4(f) resources that could contribute to a cumulative effect on historical or Section 4(f) resources.

Construction activities of the Proposed Action could contribute to soil erosion and sedimentation. Drainage and erosion control plans would be submitted to the MPCA as part of the NPDES construction stormwater permitting process. Future development projects would also be required to comply with the MPCA NPDES construction stormwater permit program and implement applicable BMPs to control soil erosion and sedimentation. Because of these requirements, the cumulative potential environmental effects due to soil erosion and sedimentation would be anticipated to be minimal.

In the future, it is anticipated that a hangar development area will be planned since there is an existing and forecasted demand for hangar sites. These hangars may be owned by the DAA or privately owned. The addition of these hangars may increase the number of based aircraft at the airport; however, increases in aircraft operations are not expected to create a change in the existing noise contours [see Existing (2020) Noise Exposure Map and the Future (2026) Noise Exposure

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Map in the Duluth International Airport Draft 14 CFR Part 150 Noise Compatibility Study, October 2021].

Hangar 2 is located directly south of the existing ATCT, as shown in **Figure 7**. This past winter the DAA struggled with snow storage. The DAA would like to remove Hangar 2 to store snow there. The DAA intends to complete the demolition of Hangar 2 regardless if the new ATCT is constructed. Hangar 2 is vacant, beyond its useful life, and no longer meeting the aeronautical needs of airport users. Furthermore, it restricts clear site lines from the existing ATCT to the non-movement line at Taxiway C4. DAA's Airport Layout Plan (ALP) shows the area as future aeronautical redevelopment. Hangars could be constructed there in the future, but the DAA wants to store snow there for the foreseeable future. The demolition of Hangar 2 is required to achieve this regardless if the new ATCT is constructed. A documented categorical exclusion form for the proposed demolition of Hangar 2 is in the process of being completed for FAA review. The DAA would like to demo Hangar 2 in the summer of 2024 to have snow storage the winter of 2024-2025. Design for the demolition is intended to begin this calendar year. Although Hangar 2 would need to be demolished for the construction of the future ATCT, it is already planned for demolition independent of the ATCT project as described above and therefore is not a connected action.

## **7. PERMITS**

List all required permits for the proposed project. Has coordination with the appropriate agency commenced? What feedback has the appropriate agency offered in reference to the proposed project? What is the expected time frame for permit review and decision?

City of Duluth Commercial Wrecking Permit

City of Duluth Grading Permit

Minnesota Pollution Control Agency Demolition Notification

Minnesota Pollution Control Agency NPDES/SDS Construction Stormwater General Permit

## **8. MITIGATION**

Describe those mitigation measures to be taken to avoid the creation of significant impacts to a particular resource as a result of the proposed project and include a discussion of any impacts that cannot be mitigated.

BMPs will be installed and maintained in compliance with the MPCA construction stormwater permit.

Standard BMPs for dust control will be implemented. Contracts would be encouraged to utilize emission controls such as not idling construction equipment for long periods of time.

SEH will prepare a site-specific Response Action Plan (RAP) incorporating the results of the testing once ATCT design plans are completed. Following the completion of the ATCT design plans, the RAP will be submitted to the MPCA for review and approval. The approved RAP will be provided to the FAA. Once the RAP is completed, any other requirements from the MPCA will be enacted. Any mitigation measures that are required and recommended for the MPCA and FAA to approve the RAP will be implemented.

## **9. PUBLIC INVOLVEMENT AND AGENCY COORDINATION**

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Describe the public review process and any comments received. Include copies of Public Notices and proof of publication.

The Proposed Action has been discussed and reviewed at Duluth Airport Authority board meetings open to public attendance. The EA will be available for review by the general public, government agencies, and interested parties for a period of 30 days. A Notice of Availability (NOA) of the EA will be published in the Duluth News Tribune on November 8, 2023. The NOA will include instructions for reviewing the document and submitting comments. A copy of the NOA, distribution list, and proof of publication is provided in **Appendix I**.

Scoping letters were sent on August 21, 2023. A copy of the scoping letter and distribution list is included in **Attachment J**. Scoping letters were sent to the following agencies:

- U.S. Environmental Protection Agency Region 5
- MN State Historic Preservation Office
- MnDOT Office of Aeronautics
- U.S. Fish and Wildlife Service
- MN Department of Health
- MN Department of Natural Resources
- MN Pollution Control Agency
- U.S. Department of the Interior

The U.S. Fish and Wildlife Service responded to the scoping letter stating that “The FAA, as the Lead Federal Agency for your project, should enter the project information into our IPaC system and complete the DKeys suggested by the system. If they obtain a “May affect” determination for any listed species, they should submit an ESA consultation request. Any comments we provide should be through ESA consultation.” No other responses to the scoping letters were received.

## **10. LIST OF ATTACHMENTS**

**Figure 1 – Location Map**

**Figure 2 – Existing Site Conditions of the ATCT Development Site**

**Figure 3 – New Air Traffic Control Tower and Development Projects**

**Figure 4 – ATCT Site Alternatives**

**Figure 5 – Alternative Site B Preliminary Design Site Layout**

**Figure 6 – Proposed Action Detailed Site Plan (Alternative A)**

**Figure 6A – Proposed Action Detailed Site Plan (Alternative A) Parcels and ROW**

**Figure 7 – Concurrent Action - Hangar 102 Demolition**

**Appendix A – Photos of the Existing ATCT**

**Appendix B – Airway Facilities Tower Integration Laboratory (AFTIL) Siting Report**

**Appendix C – Phase I and Phase II ESA Reports and Second Round of Soil Vapor Investigation Report**

**Appendix D – Sponsor Remediation Agreement Letter**

**Appendix E – USFWS Information, Planning, and Consultation (IPaC) Results**

**Appendix F – Architectural History Survey Reports**

**Appendix G – SHPO/THPO Correspondence**

**Appendix H – EPA EJSCREEN Standard Report**

**Appendix I – Notice of Availability and Distribution List**

**Appendix J – Scoping Letter and Distribution List**

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**11. PREPARER CERTIFICATION**

I certify that the information I have provided above is, to the best of my knowledge, correct.

Natalie White November 3, 2023  
Signature Date

Natalie White, PWS  
Name

Sr. Biologist  
Title

SEH (Consultant) 218.279.3003  
Affiliation Phone #

**12. AIRPORT SPONSOR CERTIFICATION**

I certify that the information I have provided above is, to the best of my knowledge, correct. I also recognize and agree that no construction activity, including but not limited to site preparation, demolition, or land disturbance, shall proceed for the above proposed project(s) until FAA issues a final environmental decision for the proposed project(s), and until compliance with all other applicable FAA approval actions (e.g., ALP approval, airspace approval, grant approval) and special purpose laws has occurred.

Mark Papko Digitally signed by Mark Papko  
Date: 2023.11.03 09:54:42 -05'00' \_\_\_\_\_  
Signature Date

Mark Papko, A.A.E.  
Name

Director of Operations  
Title

Duluth Airport Authority 218.727.2968  
Affiliation Phone #

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## Figures

**Figure 1 – Location Map**

**Figure 2 – Existing Site Conditions of the ATCT Development Site**

**Figure 3 – New Air Traffic Control Tower and Development Projects**

**Figure 4 – ATCT Site Alternatives**

**Figure 5 – Alternative Site B Preliminary Design Site Layout**

**Figure 6 – Proposed Action Detailed Site Plan (Alternative A)**

**Figure 6A – Proposed Action Detailed Site Plan (Alternative A)**

**Parcels and ROW**

**Figure 7 – Concurrent Action - Hangar 102 Demolition**

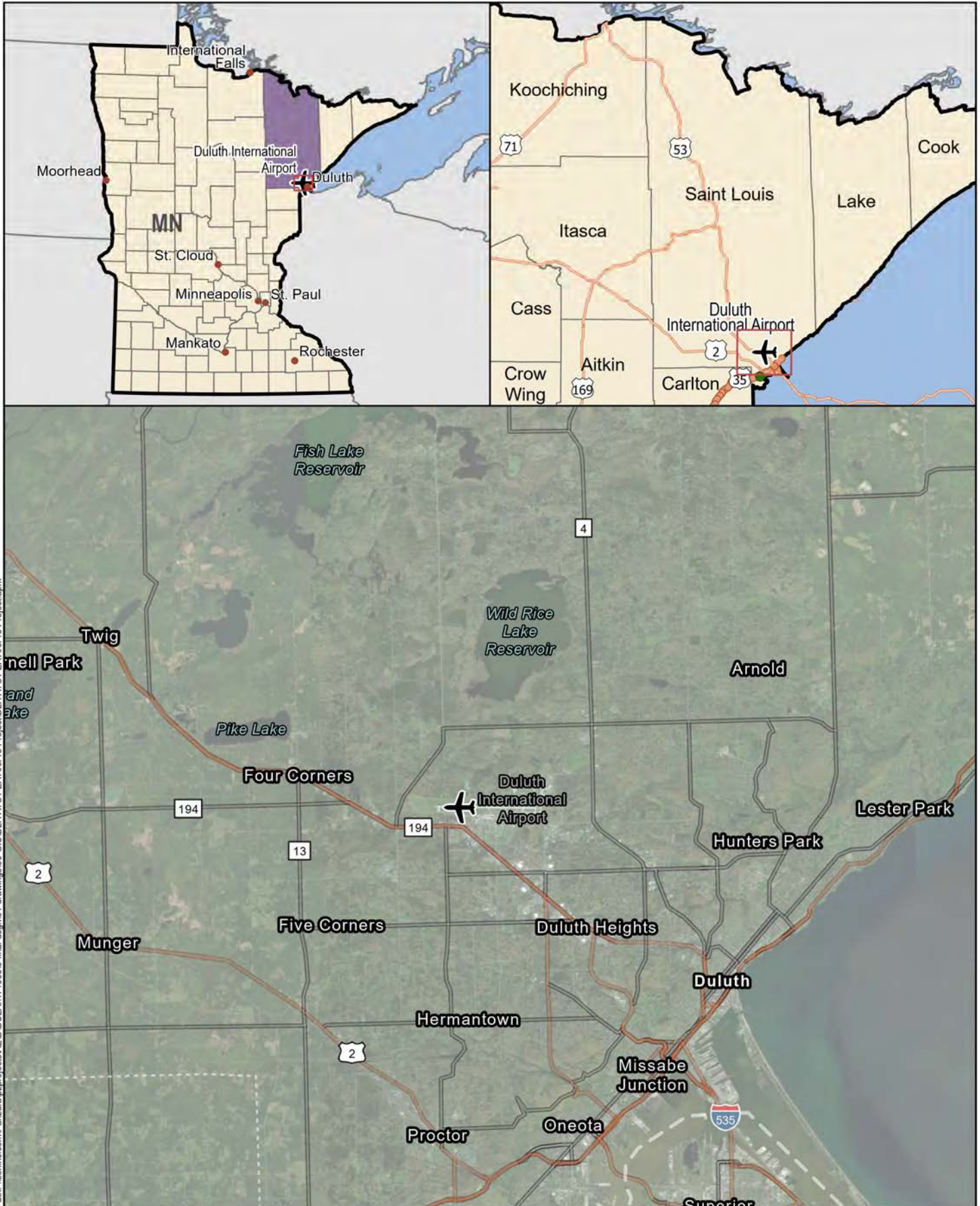


# Air Traffic Control Tower Environmental Assessment

Figure 1

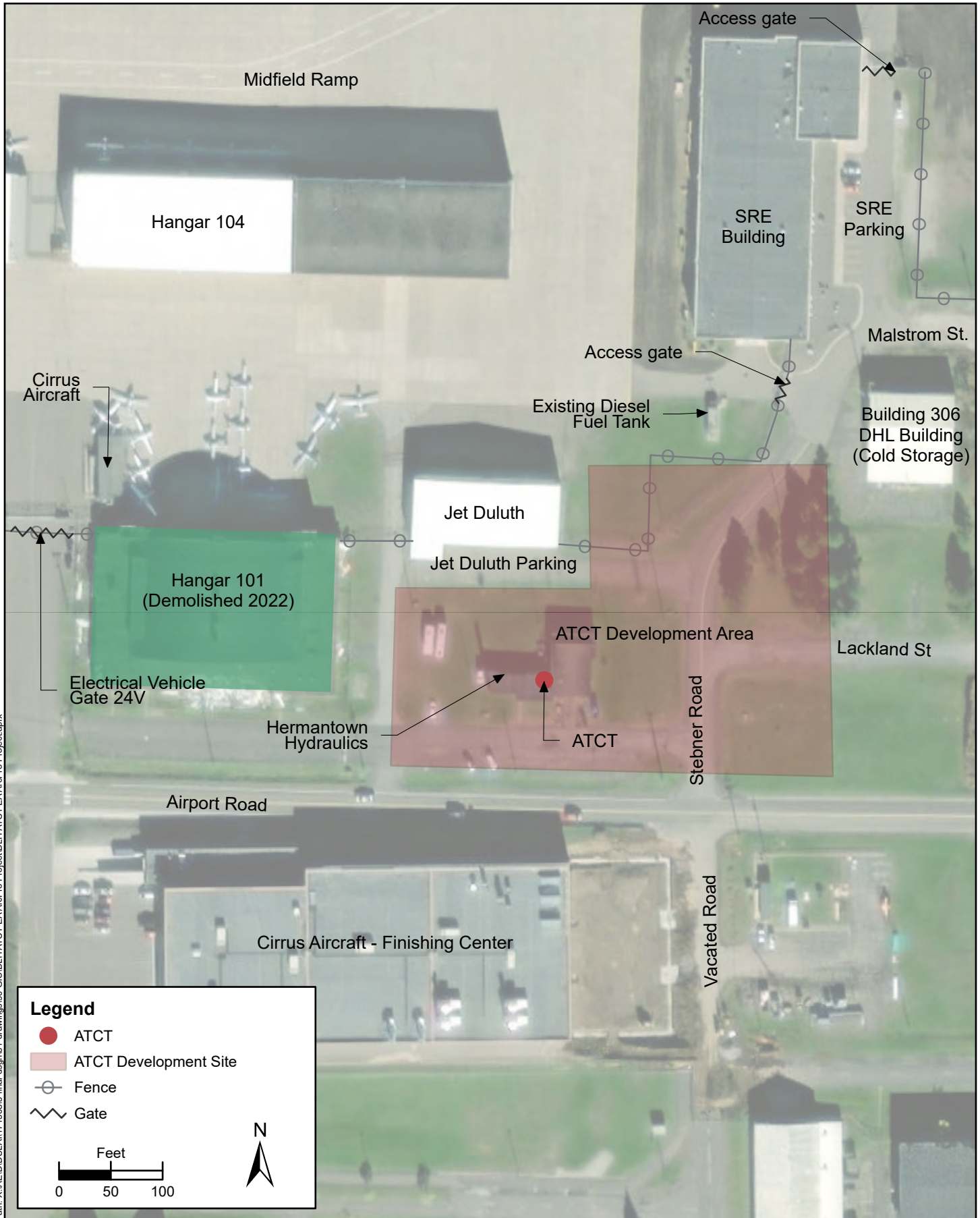
Duluth International Airport  
Duluth, Minnesota

Location Map  
04/2023; DULAI 171568



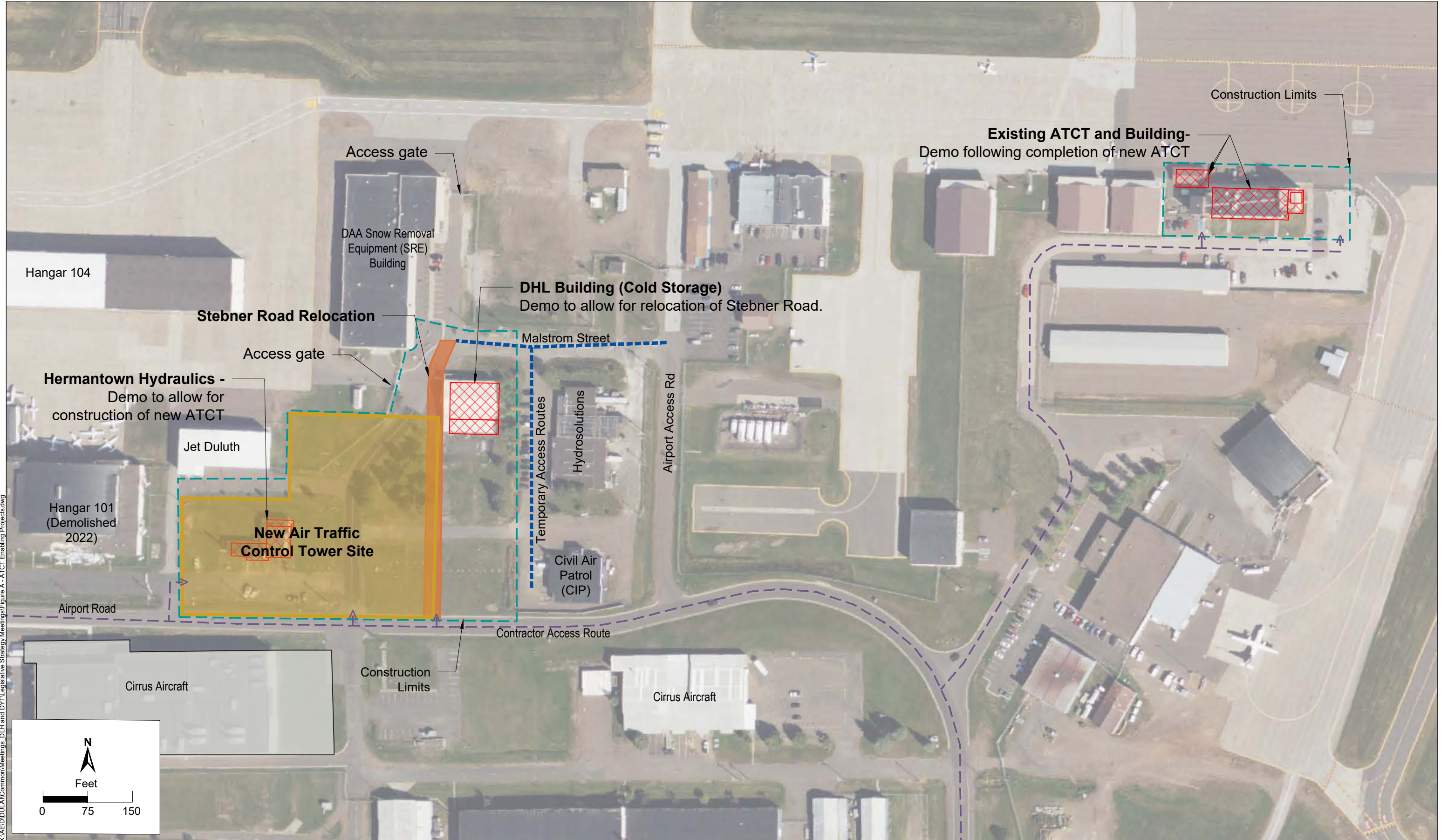
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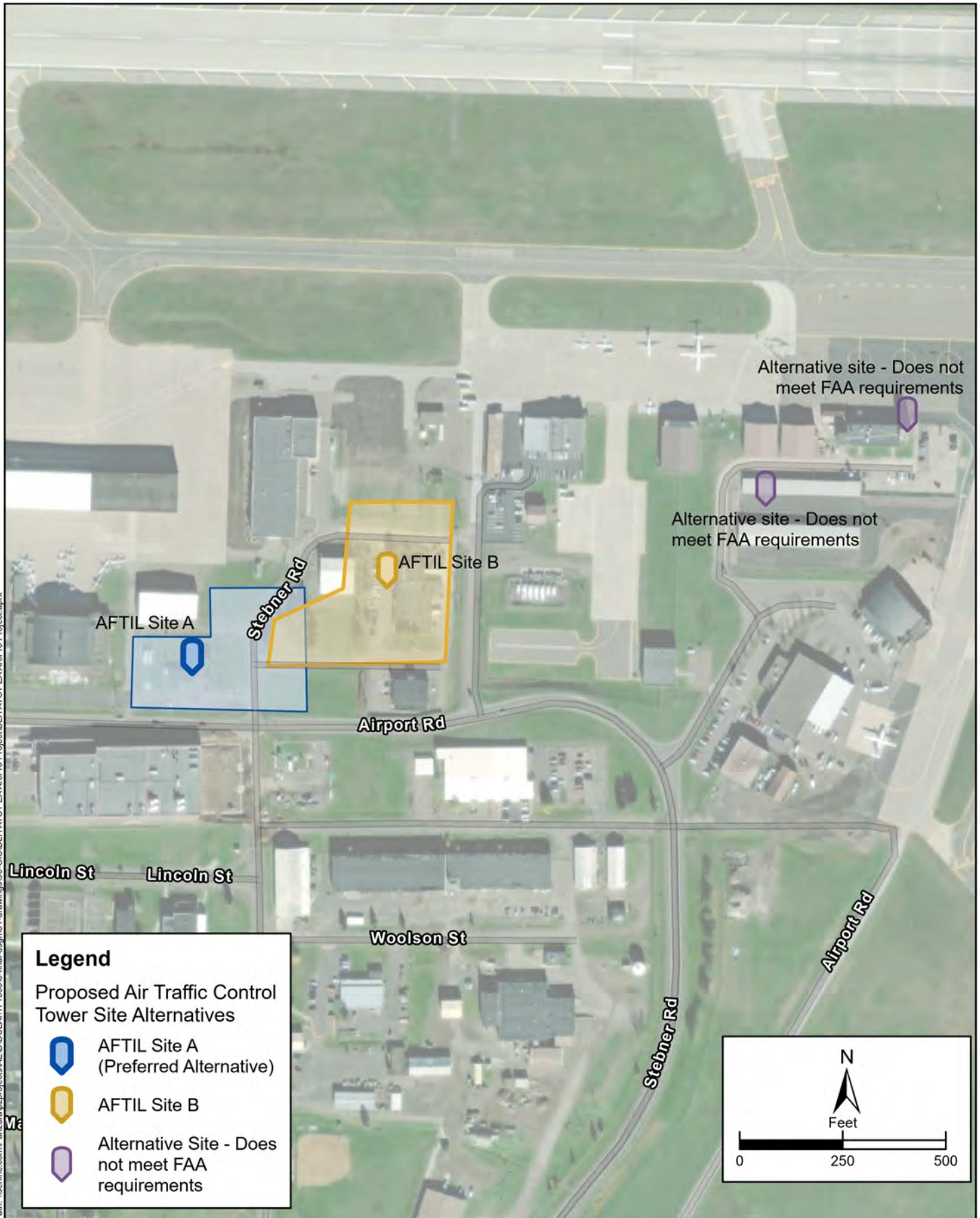


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**NOTES:**

- 57 STANDARD PARKING SPOTS
- 4 ACCESSIBLE PARKING SPOTS





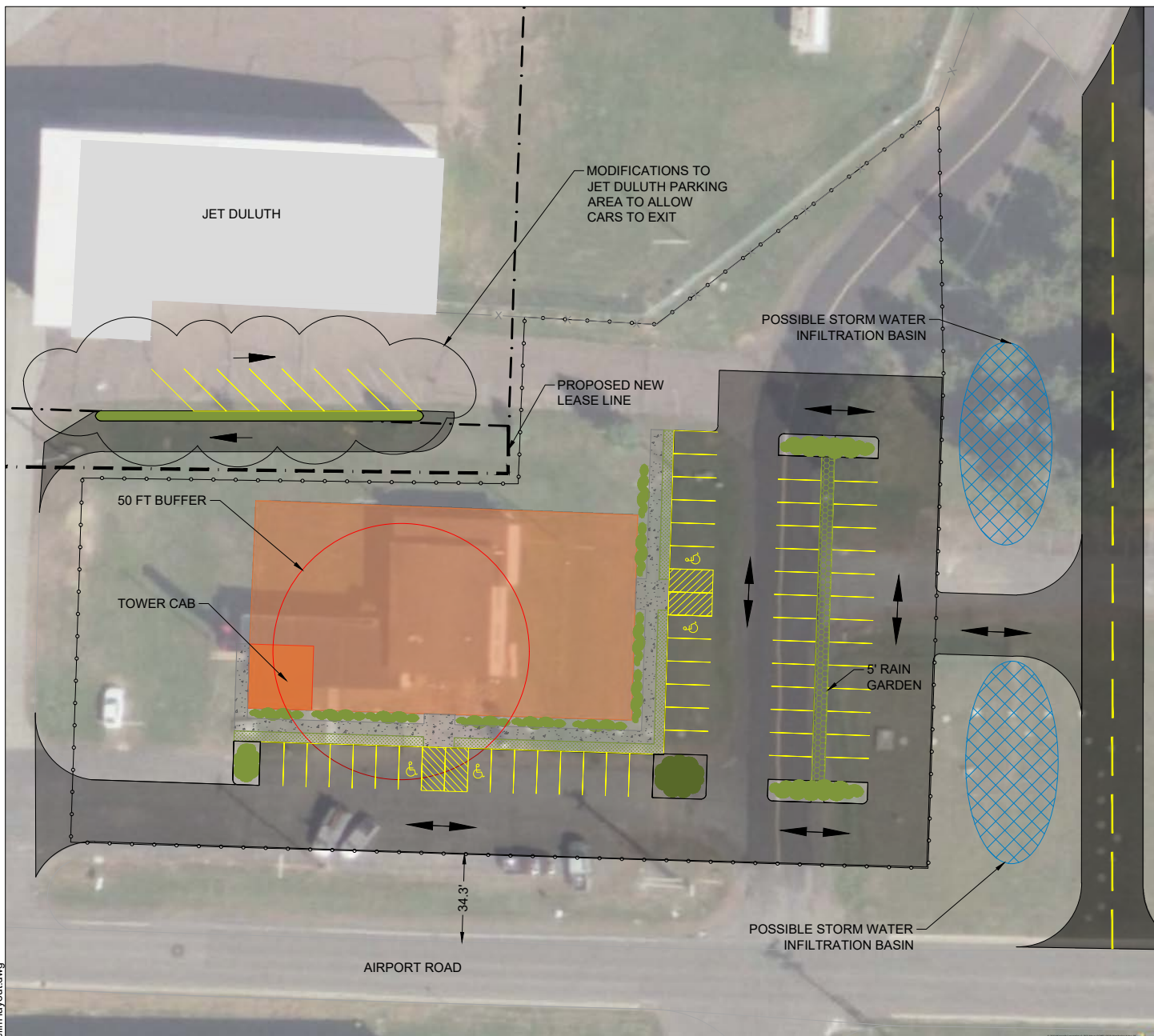


# Air Traffic Control Tower Preliminary Layout

## Figure 6

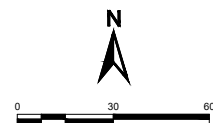
Duluth International Airport  
Duluth, Minnesota

Proposed Action Detailed Site Plan (Alternative A)  
04/2023; DULAI 171568



### NOTES:

- 60 STANDARD PARKING SPOTS
- 4 ACCESSIBLE PARKING SPOTS



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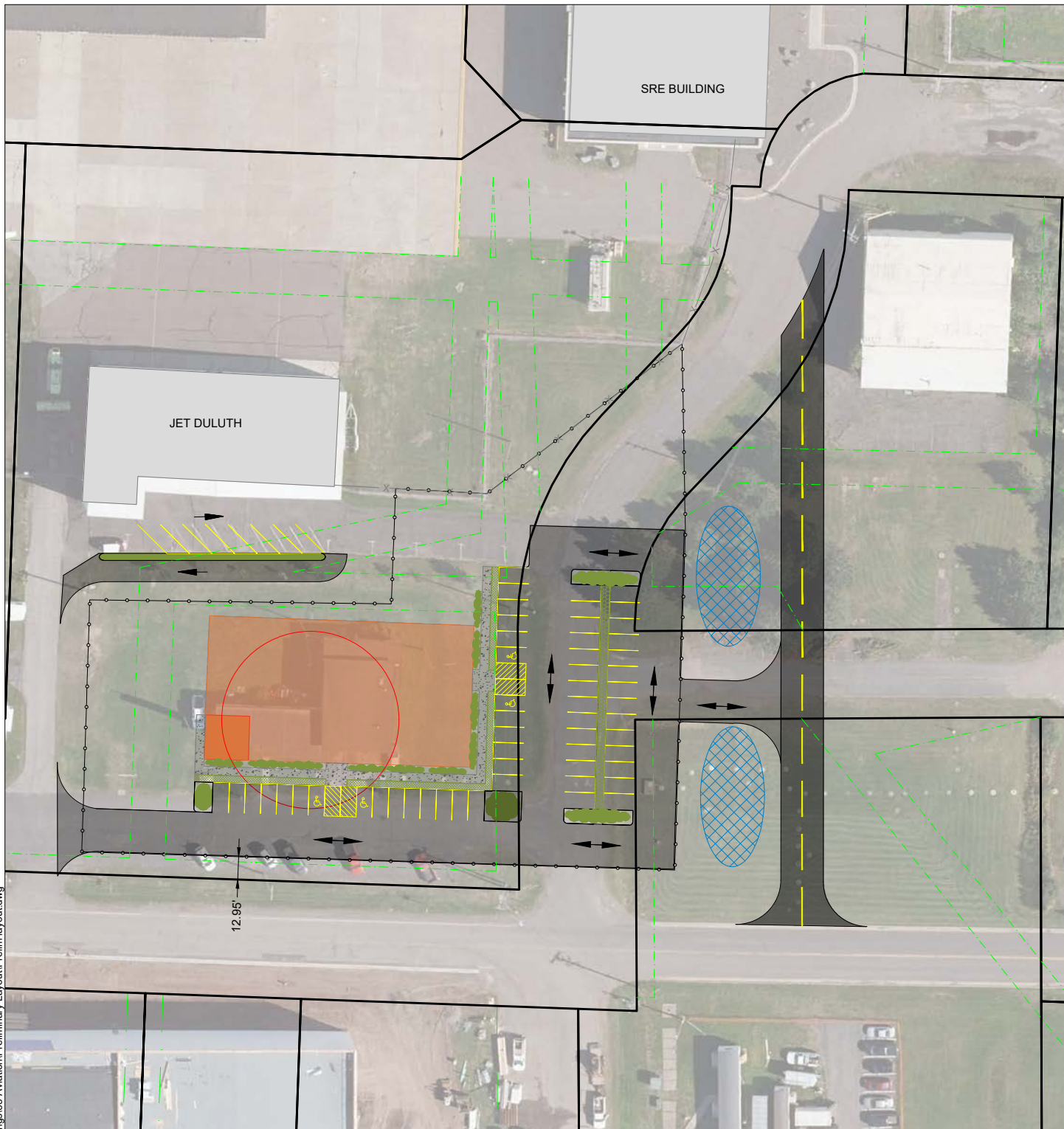


# Air Traffic Control Tower Preliminary Layout




# Figure 6A

Duluth International Airport  
Duluth, Minnesota

Proposed Action Detailed Site Plan (Alternative A) Parcels and ROW  
04/2023; DULAI 171568



### LEGEND:

-  TOWER CAB
-  COUNTY PARCEL LINES
-  UTILITY EASMENT



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X:\AE\IDULAI\Common\Meetings\Figure A - ATCT Enabling Projects.dwg

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**Appendix A**  
**Photos of the Existing ATCT**

**Photo 1 Landside View (from South)**



**Photo 2 Landside View Close Up**





**Photo 3 East Side of ATCT**



**Photo 4 Airside View (from North)**



**Photo 5 Airside View (from North)**



**Photo 6 Airside View Close Up**



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**Appendix B**  
**Airway Facilities Tower Integration Laboratory (AFTIL) Siting**  
**Report**



Federal Aviation  
Administration

# **Duluth International Airport (DLH) Duluth, Minnesota**

**Airport Traffic Control Tower  
Siting Report**

**Engineering Services  
Terminal Engineering Center, Chicago**

**Developed by:  
Raul Marrero**

**Effective Date: July 24, 2023**

## EXECUTIVE SUMMARY

The existing Duluth International Airport (DLH) Airport Traffic Control Tower (ATCT) facility is leased by the FAA from the Duluth Airport Authority. The existing DLH ATCT is a Level 5 non-standard tower commissioned in 1963 with a cab size of approximately 270 square feet and an eye level of 44 feet above ground level (AGL). This siting report provides a discussion of the siting process, evaluation criteria for a new ATCT, an overview of all sites considered, a detailed evaluation of preferred site options, and a final site recommendation.

Cost estimates for all preferred sites are included in [Appendix B](#) of this report. These cost estimates and associated building sizes are for planning and site selection purposes only.

The intent of this siting report is to identify and reserve a location on the airport for a replacement of the existing ATCT with a new intermediate activity level ATCT facility. Representatives from the Federal Aviation Administration (FAA) and the DLH airport authority met at the Airport Facilities Terminal Integration Laboratory (AFTIL) in Atlantic City, New Jersey on September 20–22, 2022 to participate in the siting assessment process for the new DLH ATCT, in accordance with FAA Order 6480.4B, Airport Traffic Control Tower Siting Criteria.

### **Recommended Action/Location**

The recommended location for the new ATCT is identified in this report as Site 6. The tower center coordinates are 46°50'15.3900"N, 92°11'47.5600"W. The estimated ground elevation at Site 6 is 1,424 feet above mean sea level (AMSL). The proposed tower cab floor elevation is 119 feet AGL/1,543 feet AMSL. This is the shortest possible ATCT that meets all siting criteria and is deemed safe under the Safety Management System (SMS). The proposed tower provides unobstructed views of all controlled airport surface areas and maximum visibility of all airborne traffic.

The new tower will have an 8-sided, 440 square-foot cab with mullions and slat-wall consoles. The proposed tower will facilitate a safe operating environment for aeronautical activity at DLH well into the future and will be built in accordance with national building codes, FAA standards and security requirements stated in [Appendix J](#). The recommended site provides the best available location for visibility of airport traffic control.

### **Impacts**

The proposed tower structure at Site 6 will exceed the RWY 09/27 Part 77 Transitional surface and must be lighted with red obstruction lights in accordance with FAA Advisory Circular 70/7460-1, Obstruction Marking and Lighting, Chapters 4, 5, and 12.

The proposed ATCT will have an impact on Instrument Flight Rules (IFR) operations and the final design of the ATCT and base building will have to be evaluated for impacts to the 09 CAT II Localizer as detailed in [Appendix F](#). The Duluth Airport Authority has been notified of these impacts and has acknowledged the required actions in the signed Airport Concurrence Letter ([Appendix A](#)).



To obtain a favorable determination of the airspace case for the recommended site (Site 6) it was necessary to lower the top of the tower by 1 foot from that assumed during the AFTIL siting. The cab floor and eye level heights do not change. When designing the ATCT, this restriction must be met and the **maximum tower structure height, including antennas and appurtenances, must not exceed 153 feet AGL/1,577 feet AMSL**. Exceeding this height will cause the structure to be a hazard to air navigation.

**Note:** A 1 foot decrease in the presumed top of tower is not expected to have a negative effect in the design of the new ATCT.

A Phase I Environmental Site Assessment (ESA) for Site 6 identified Recognized Environmental Conditions (RECs) and as result a Phase II ESA was recommended. A Phase II ESA completed by the Duluth Airport Authority confirmed the presence of contamination and resulted in several recommendations for the subject property as detailed in [Appendix G](#), Environmental Documentation. As a result of these recommendations, the Duluth Airport Authority has agreed to remediate Site 6 to the satisfaction of the regulatory authorities and the FAA, and at their own risk, prior to commencement of construction activities (see commitment letter in [Appendix G](#)). Due to these conditions, selection of Site 6 as the recommended site is contingent and conditional on the successful remediation of the site by the Duluth Airport Authority.

There are no other known impacts in terms of line of sight, future airport development, or local weather phenomena with the potential to impair visibility.

**APPROVAL AUTHORITIES**

**JOSEPH  
FIGLIUOLO III** Digitally signed by  
JOSEPH FIGLIUOLO III  
Date: 2023.07.28  
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**Director of Air Traffic Services, Central Service Area**

**CHRISTOPHE  
R M HUGUNIN** Digitally signed by  
CHRISTOPHER M HUGUNIN  
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**Director of Technical Operations, Central Service Area**

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**Director of Air Traffic Control Facilities, FAA Headquarters**

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## 1.0 PREFERRED SITES

A total of seven (7) sites were evaluated against the required siting criteria. Visibility and impacts were assessed and documented to determine which sites were viable sites. Air Traffic representatives selected the following preferred sites based on team discussion and inputs on the advantages and disadvantages of each site: Site 3, Site 4, Site 6, and Site 7.

Though a particular site may be preferable in terms of safety, operations, cost, constructability, or other criteria, it is understood that any of the preferred sites, with the exception of Site 4 and Site 7 that were determined to be hazards to air navigation, would be acceptable as the recommended site should the identified recommended site be eliminated for any reason.

### 1.1 Preferred Sites Aerial View



Figure 1. Preferred Sites Aerial View

## 1.2 Site Comparison Chart

Item Description	Site 3			Site 4			Site 6			Site 7		
Recommended Site: AFTIL-2 action	Preferred 3			Preferred 1			Recommended			Preferred 2		
Latitude	46°50'17.3900" N			46°50'16.7400" N			46°50'15.3900" N			46°50'12.7300" N		
Longitude	92°11'40.6600" W			92°11'51.6200" W			92°11'47.5600" W			92°11'39.2100" W		
Cab Floor Level (AGL)	114 ft			128 ft			119 ft			123 ft		
Cab Floor Level (AMSL)	1,537 ft			1,590 ft			1,543 ft			1,554 ft		
Eye-Level (AGL)	119 ft			133 ft			124 ft			128 ft		
Eye-Level (AMSL)	1,542 ft			1,555 ft			1,548 ft			1,559 ft		
Top of Tower (AMSL)	1,572 ft			1,585 ft			1,578 ft			1,589 ft		
Top of Tower (AGL)	149 ft			163 ft			154 ft			158 ft		
Estimated Ground Level (AMSL)	1,423 ft			1,422 ft			1,424 ft			1,431 ft		
Maximum Distance (to farthest point on all runways and taxi ways)	8,286 ft			8,878 ft			8,768 ft			8,563 ft		
2-Point Lateral Discrimination (Deg)	0.88 Pass			0.90 Pass			0.87 Pass			0.96 Pass		
Object Discrimination (Pass/Fail) Front View (C-172)	Pass			Pass			Pass			Pass		
Line of Sight Angle of Incidence	Pass			Pass			Pass			Pass		
ATCT Orientation Direction	North			North			North			North		
Airport Quadrant	Southwest			Southwest			Southwest			Southwest		
Cab Size	440			440			440			440		
Columns/Mullions	mullions			mullions			mullions			mullions		
Console Type (traditional, slat wall)	slat-wall			slat-wall			slat-wall			slat-wall		
Land Area	2.5 acres			2.1 acres			2.5 acres			2.8 acres		
Access to ATCT Site (Yes or No)	Yes			Yes			Yes			Yes		
Tech Ops Preliminary Review Issues	Yes			Yes			Yes			Yes		
TERPS Impacts	Yes			Yes			No			Yes		
14 CFR Part 77 Impacts	Yes			Yes			Yes			No		
Environmental Issues	Yes			Yes			Yes			Yes		
ATCT Potential Impacts to Future & Existing Nav aids	Yes			Yes			Yes			Yes		
Comparative Cost Estimate* (\$100K per vertical foot)	\$11,400,000			\$12,800,000			\$11,900,000			\$12,300,000		
Safety Assessment Initial Risk Ranking	L	M	H	L	M	H	L	M	H	L	M	H
	0	0	0	0	0	0	0	0	0	0	0	0
Safety Assessment Predicted Residual Risk Ranking	L	M	H	L	M	H	L	M	H	L	M	H
	0	0	0	0	0	0	0	0	0	0	0	0

\* The comparative cost estimate is not for budgetary purposes; it is for site comparison purposes only.

## 1.3 Site 3

### 1.3.1 Description

Site 3 is located approximately 1,300 feet west southwest of the existing ATCT in the southwest quadrant of the airport and approximately 1,300 feet south of centerline Runway (RWY) 9/27 and is oriented to the Local Control 1 (LC1) position facing north. Site 3 provides an unobstructed view of the airport including a good discriminatory view of the future extended approach end of RWY 21 and the approach end of RWY 9.

### 1.3.2 Site Reference Data

Site 3 is located at 46°50'17.3900" N, 92°11'40.6600" W with a cab floor height of 114 feet AGL. Refer to [Paragraph 1.2](#), Site Comparison Chart, for site reference data.

### 1.3.3 Siting Criteria Evaluation

#### A. TERPS

There are no TERPS impacts for this structure at Site 3. Refer to [Appendix F](#) for additional information.

#### B. 14 CFR Part 77, Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) requirements

The structure at Site 3 will exceed the RWY 09/27 Part 77 Transitional surface. The structure must be lighted with red obstruction lights in accordance with FAA Advisory Circular 70/7460-1, Obstruction Marking and Lighting, Chapters 4, 5, and 12. Refer to [Appendix F](#) for additional information.

#### C. Impacts to Communications, Navigation and Surveillance Equipment

There are no known NASWATCH impacts for this structure at Site 3; however, the final design of the ATCT and base building will have to be evaluated for impacts to the RWY 09 CAT II Localizer. Refer to [Appendix F](#) for additional information.

#### D. Visibility Performance Requirements

A visibility siting requirements analysis was conducted using the FAA's human factors tool to address the unobstructed view, object discrimination, and LOS angle of incidence requirements. Site 3 passed all analyses and does not require any additional mitigation strategies. Refer to [Appendix H](#) for additional information.

#### E. Safety Assessment

Site 3 has no hazards. The full report is shown in [Appendix K](#).

#### F. Operational Requirements

##### 1. ATCT Orientation: North



2. Weather: The new ATCT windows will mitigate sleet/snow buildup on ATCT windows.
3. Look-Down Angle: The look-down angle at Site 3 is adequate to see all movement areas of the airport.
4. Look-Up Angle: Look-up LOS in the cab is adequate to see all necessary areas.
5. Look Across LOS: Look Across LOS in the cab is adequate to see all necessary areas.
6. Cab Mullion/Column Orientation: Eight sided cab with mullions.
7. Construction: No issues with construction were identified.
8. Access: No issues.
9. Non-Movement Areas: No issues with non-movement areas were identified.
10. Cab Size Evaluation: A space study was conducted in a 440 sf cab. No issues were identified.
11. Rotating Beacon: The rotating beacon is below the height of the proposed tower cab and will not shine into the structure.

#### G. Economic Considerations

Consideration was given to economic factors when evaluating ATCT sites. Refer to [Appendix B](#) for a detailed cost estimate.

#### H. Environmental

One Recognized Environmental Condition (REC) and three Historical Recognized Environmental Conditions (HRECs) were identified for Site 3. Refer to [Appendix G](#) for additional information.

### 1.4 Site 4

#### 1.4.1 Description

Site 4 is located approximately 2,100 feet west southwest of the existing ATCT in the southwest quadrant of the airport and approximately 1,400 feet south of centerline RWY 9/27 and is oriented to the LC1 position facing north. Site 4 provides an unobstructed view of the airport including a good discriminatory view of the distant future extended approach end of RWY 21 and approach end RWY 9.

#### 1.4.2 Site Reference Data

Site 3 is located at 46°50'16.7400" N, 92°11'51.6200" W with a cab floor height of 128 feet AGL. Refer to [Paragraph 1.2](#), Site Comparison Chart, for site reference data.

### 1.4.3 Siting Criteria Evaluation

#### A. TERPS

There are no TERPS impacts for this structure at Site 4. Refer to [Appendix F](#) for additional information.

#### B. 14 CFR Part 77, Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) requirements

This aeronautical study revealed that the structure would have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft and/or on the operation of air navigation facilities. The structure would be a hazard to air navigation. Refer to [Appendix F](#) for additional information.

#### C. Impacts to Communications, Navigation and Surveillance Equipment

There are no known NASWATCH impacts for this structure at Site 4; however, the final design of the ATCT and base building will have to be evaluated for impacts to the RWY 09 CAT II Localizer. Refer to [Appendix F](#) for additional information.

#### D. Visibility Performance Requirements

A visibility siting requirements analysis was conducted using the FAA's human factors tool to address the unobstructed view, object discrimination, and LOS angle of incidence requirements. Site 4 passed all analyses and does not require any additional mitigation strategies. Refer to [Appendix H](#) for additional information.

#### E. Safety Assessment

Site 4 has no hazards. The full report is shown in [Appendix K](#).

#### F. Operational Requirements

1. ATCT Orientation: North
2. Weather: The new ATCT windows will mitigate sleet/snow buildup on ATCT windows.
3. Look-Down Angle: The look-down angle at Site 4 is adequate to see all movement areas of the airport.
4. Look-Up Angle: Look-up LOS in the cab is adequate to see all necessary areas.
5. Look Across LOS: Look Across LOS in the cab is adequate to see all necessary areas.
6. Cab Mullion/Column Orientation: Eight sided cab with mullions.
7. Construction: Construction of Site 4 would not obstruct any movement areas.
8. Access: No issues.

9. Non-Movement Areas: No issues were identified with non-movement areas.
10. Cab Size Evaluation: A space study was conducted in a 440 sf cab. No issues were identified.
11. Rotating Beacon: The rotating beacon is below the height of the proposed tower cab and will not shine into the structure.

G. Economic Considerations

Consideration was given to economic factors when evaluating ATCT sites. Refer to [Appendix B](#) for a detailed cost estimate.

H. Environmental

One RECs and two HRECs were identified for Site 4. Refer to [Appendix G](#) for additional information.

## 1.5 Site 6

### 1.5.1 Description

Site 6 was added as a proposed site by the Duluth Airport Authority during the evaluation. Site 6 is located approximately 1,900 feet west southwest of the existing ATCT in the southwest quadrant of the airport and approximately 1,600 feet south of centerline RWY 9/27. Site 6 is approximately 300 ft. east southeast of Site 4 and is oriented to the LC1 position facing north. Site 6 provides an unobstructed view of the airport including a good discriminatory view of the future extended approach end of RWY 21 and approach end RWY 9.

### 1.5.2 Site Reference Data

Site 6 is located at 46°50'15.3900" N, 92°11'47.5600" W with a cab floor height of 119 feet AGL. Refer to [Paragraph 1.2](#), Site Comparison Chart, for site reference data.

### 1.5.3 Siting Criteria Evaluation

A. TERPS

There are no TERPS impacts for this structure at Site 6. Refer to [Appendix F](#) for additional information.

B. 14 CFR Part 77, Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) requirements

This structure will exceed the RWY 09/27 Part 77 Transitional surface. This structure must be lighted with red obstruction lights in accordance with FAA Advisory Circular 70/7460-1, Obstruction Marking and Lighting, Chapters 4, 5, and 12. Refer to [Appendix F](#) for additional information.

C. Impacts to Communications, Navigation and Surveillance Equipment

There are no known NASWATCH impacts for this structure at Site 6; however, the final design of the ATCT and base building will have to be evaluated for impacts to the RWY 09 CAT II Localizer. Refer to [Appendix F](#) for additional information.

D. Visibility Performance Requirements

A visibility siting requirements analysis was conducted using the FAA's human factors tool to address the unobstructed view, object discrimination, and LOS angle of incidence requirements. Site 6 passed all analyses and does not require any additional mitigation strategies. Refer to [Appendix H](#) for additional information.

E. Safety Assessment

Site 6 has no hazards. The full report is shown in [Appendix K](#).

F. Operational Requirements

1. ATCT Orientation: North
2. Weather: The new ATCT windows will help with sleet/snow buildup on ATCT windows.
3. Look-Down Angle: The look-down angle at Site 6 is adequate to see all movement areas of the airport.
4. Look-Up Angle: Look-up LOS in the cab is adequate to see all necessary areas.
5. Look Across LOS: Look Across LOS in the cab is adequate to see all necessary areas.
6. Cab Mullion/Column Orientation: Eight sided cab with mullions.
7. Construction: No issues with construction were identified.
8. Access: No issues.
9. Non-Movement Areas: No issues were identified.
10. Cab Size Evaluation: A space study was conducted in a 440 sf cab. No issues were identified.
11. Rotating Beacon: The rotating beacon is below the height of the proposed tower cab and will not shine into the structure

G. Economic Considerations

Consideration was given to economic factors when evaluating ATCT sites. Refer to [Appendix B](#) for a detailed cost estimate.



## H. Environmental

Two RECs and two HRECs were identified for Site 6, and a Phase II ESA was recommended. The Phase II ESA for Site 6 resulted in several recommendations for the subject property as detailed in [Appendix G](#).

### 1.6 Site 7

#### 1.6.1 Description

Site 7 was added as a proposed site by the Duluth Airport Authority during the evaluation. Site 7 is located approximately 1,500 feet southwest of the existing ATCT in the southwest quadrant of the airport and approximately 1,800 feet south of centerline RWY 9/27, 1,500 feet west of the approach end RWY 3. Site 7 is approximately 500 feet south of Site 3 and is oriented to the LC1 position facing north. Site 7 provides an unobstructed view of the airport including a good discriminatory view of the future extended approach end of RWY 21 and approach end RWY 9.

#### 1.6.2 Site Reference Data

Site 7 is located at 46°50'12.7300" N, 92°11'39.2100" W with a cab floor height of 123 feet AGL. Refer to [Paragraph 1.2](#), Site Comparison Chart, for site reference data.

#### 1.6.3 Siting Criteria Evaluation

##### A. TERPS

There are no TERPS impacts for this structure at Site 7. Refer to [Appendix F](#) for additional information.

##### B. 14 CFR Part 77, Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) requirements

For Site 7, the aeronautical study revealed that the structure would have a substantial adverse effect on the safe and efficient utilization of the navigable airspace by aircraft and/or on the operation of air navigation facilities. The structure would be a hazard to air navigation. Refer to [Appendix F](#) for additional information.

##### C. Impacts to Communications, Navigation and Surveillance Equipment

There are no known NASWATCH impacts for this structure at Site 7; however, the final design of the ATCT and base building will have to be evaluated for impacts to the RWY 09 CAT II Localizer. Refer to [Appendix F](#) for additional information.

##### D. Visibility Performance Requirements

A visibility siting requirements analysis was conducted using the FAA's human factors tool to address the unobstructed view, object discrimination, and LOS angle of incidence requirements. Site 7 passed all analyses and does not require any additional mitigation strategies. Refer to [Appendix H](#) for additional information.



E. Safety Assessment

Site 7 has no hazards. The full report is shown in [Appendix K](#).

F. Operational Requirements

1. ATCT Orientation: North
2. Weather: The new ATCT windows will mitigate sleet/snow buildup on ATCT windows.
3. Look-Down Angle: The look-down angle at Site 7 is adequate to see all movement areas of the airport.
4. Look-Up Angle: Look-up LOS in the cab is adequate to see all necessary areas.
5. Look Across LOS: Look Across LOS in the cab is adequate to see all necessary areas.
6. Cab Mullion/Column Orientation: Eight sided cab with mullions.
7. Construction: Construction at Site 7 would not obstruct any movement areas.
8. Access: No Issues.
9. Non-Movement Areas: No issues with non-movement areas were identified.
10. Cab Size Evaluation: A space study was conducted in a 440 sf cab. No issues were identified.
11. Rotating Beacon: The Airport Rotating Beacon is below the height of the proposed tower cab and will not shine into the structure.

G. Economic Considerations

Consideration was given to economic factors when evaluating ATCT sites. Refer to [Appendix B](#) for a detailed cost estimate.

H. Environmental Considerations

One REC and three HRECs were identified for Site 7. Refer to [Appendix G](#) for additional information.

## 2.0 FINAL SITE RECOMMENDATION

Site 6 is the Final Recommended Site for the replacement ATCT at DLH. Site 6 is approximately 1,900 feet west southwest of the existing ATCT in the southwest quadrant of the airport and approximately 1,600 feet south of centerline RWY 9/27. The Site 6 land area is approximately 2.5 acres and is approximately 300 feet east southeast of Site 4. DLH ATC explained that Site 6 provides an unobstructed view of the airport including a good discriminatory view of the future extended approach end of RWY 21, RWY 27, and approach

end RWY 9. DLH ATC assessed Site 6 as a preferred viable site at an cab floor height of 119 feet AGL/1543 feet AMSL, with a north orientation.

### **3.0 CAB SIZE AND ORIENTATION**

The ATCT is an intermediate level tower with a proposed eight (8) sided 440 sf cab with mullions facing north. The tower has five authorized positions in the cab. Refer to [Appendix E](#) for a cab orientation image.

### **4.0 SUPPLEMENTAL INFORMATION**

[Appendix A – Airport Concurrence Letter](#)

[Appendix B – Cost Estimate](#)

[Appendix C – All Sites Evaluated](#)

[Appendix D – Panoramic Views](#)

[Appendix E – Drawings \(Cab Layout, Airport Layout Plan, Cab Structures, Airport Cable Drawings\)](#)

[Appendix F – Obstruction Evaluations/Airport Airspace Analysis \(OE/AAA\)](#)

[Appendix G – Environmental Documentation](#)

[Appendix H – Human Factors Analysis](#)

[Appendix I – Servicing Security Element](#)

[Appendix J – Other Pertinent Information](#)

[Appendix K – Safety Risk Management Document](#)

[Appendix L – Siting Report Amendments](#)

## **Appendix A – Airport Concurrence Letter**

Refer to [Knowledge Sharing Network \(KSN\)](#) for the airport concurrence letter.

## **Appendix B – Cost Estimate**

Refer to [KSN](#) for the cost estimate.

## Appendix C – All Sites Evaluated

Sites 1, 2, 3, 4, 5, 6, and 7 were evaluated during the DLH Siting Assessment. Site 1 was eliminated by DLH ATC as a preferable site due to TERPS issues with precision approaches. Site 2 was eliminated as a preferable site by DLH ATC due to the effect of the south orientation sun tracking which would be apparent throughout daylight hours. Site 5 was eliminated by DLH ATC as a preferable site due to the RWY 9 approach end distance, which is an existing ATCT LOS issue. Site 3, Site 4, Site 6, and Site 7 were assessed as preferred sites and their cab structure and control positions were presented.

### A. Preferred Sites Evaluated

#### 1. Site 3

Orientation: North

Eye Level AMSL: 1,542 ft

Eye Level AGL: 119 ft

Top of Tower AMSL: 1,572 ft

Top of Tower AGL: 149 ft

Estimated Ground Level AMSL: 1,423 ft

Advantages:

- Good visibility
- Good visibility of RWY ends

Disadvantages:

- None

#### 2. Site 4

Orientation: North

Eye Level AMSL: 1,555 ft

Eye Level AGL: 133 ft

Top of Tower AMSL: 1,585 ft

Top of Tower AGL: 163 ft

Estimated Ground Level AMSL: 1,422 ft

Advantages:

- Good visibility
- Good visibility of RWY ends

Disadvantages:

- None

3. Site 6

Orientation: North

Eye Level AMSL: 1,548 ft

Eye Level AGL: 124 ft

Top of Tower AMSL: 1,578 ft

Top of Tower AGL: 154 ft

Estimated Ground Level AMSL: 1,424 ft

Advantages:

- Good visibility
- Good visibility of RWY ends

Disadvantages:

- None

4. Site 7

Orientation: North

Eye Level AMSL: 1,559 ft

Eye Level AGL: 128 ft

Top of Tower AMSL: 1,589 ft

Top of Tower AGL: 158 ft

Estimated Ground Level AMSL: 1,431 ft

Advantages:

- Good visibility
- Good visibility of RWY ends

Disadvantages:

- None

## **Appendix D – Panoramic Views**

Refer to the [KSN](#) for panoramic views of Site 3, Site 4, Site 6, and Site 7.

## **Appendix E – Drawings**

Refer to the [KSN](#) for the Cab Layouts Cab Layout, Airport Layout Plan, Cab Structures, and Airport Cable Drawings.



**Appendix F – Obstruction Evaluations/Airport Airspace Analysis (OE/AAA)**

Refer to the [KSN](#) for the final determination letters for Site 3, Site 4, Site 6, and Site 7.

## **Appendix G – Environmental Documentation**

Refer to the [KSN](#) for the Phase I ESA for Site 3, Site 4, Site 6, and Site 7; and the Phase II ESA for Site 6.

## **Appendix H – Human Factors Analysis**

Refer to the [KSN](#) for the human factors analysis.

## Appendix I – Servicing Security Element

Physical security protective measures shall be implemented based on a Facility Security Level (FSL) 2 Critical Infrastructure (CI) site, per FAA Order 1600.69C.

SUBJ: FSL-2 Critical Infrastructure Facility Site Selection (DLH-ATCT)	Date: January 27, 2023
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### DLH ATCT Site Selection Evaluation (Facility Security Level (FSL)-2 Critical Infrastructure (CI) Facility)

#### Site Security Criteria- Applies to all Four proposed sites (3.4.6.7)

##### **Perimeter Security:**

- There must be enough space for the installation of a perimeter fence (see below for fencing requirements).
- The fence should extend around the perimeter of the property and must account for a 20-foot buffer zone inside the fence.
  - The location of the building structure should be noted so that the 20-ft buffer zone is accounted for. This would include supporting utilities such as exterior HVAC equipment, EG, EG tank, outbuildings, etc.
    - Smaller utility equipment that does not create concealed areas, block VSS camera views, or provide a climbing assist may be permitted in the buffer zone.
- There must also be space for a 20-foot clear zone outside the fence.
  - The proposed 1600.69D Order changes would eliminate the clear zone requirement. \*1600.69D is still awaiting final approval.
- Fence Requirements:
  - Perimeter fencing consists of a 7-foot, 9 gauge woven aluminum coated steel or galvanized steel wire fabric with mesh openings not larger than 2 inch per side.
  - A 1-foot high outward facing top guard consisting of 3 strands of galvanized barbed wire set at an outward angle of 45 degrees for a total of 8 feet above grade.
  - Construction of FAA security fences and gates will comply with Federal Supply Service, Federal Specification RR-F-191K, Fencing, Wire, and Post Metal (and Gates, Chain-Link Fence Fabric, and Accessories) (General Specification), Federal Specification Sheets RR-F-191-1E through 4E and American Society for Testing and Materials (ASTM) F567-07, Standard Practice for Installation of Chain-Link Fence.

##### **Vehicle Access Points:**

- Vehicle parking should be identified and access to facility parking must be limited to government and contractor vehicles, assigned personnel, and authorized visitors.
- Generally, facility parking should be included within the perimeter fencing.
  - Identified vehicle parking locations should not infringe on the 20-foot buffer zone requirement.
- Vehicle gates will be used to limit access to authorized vehicles.
- Limit the number of vehicle access points, utilize PIV card readers on vehicle gates, and monitor access points with (Gate Control Video).

##### **Site Lighting:**

- Based on the images, it could not be determined if site lighting is already in place at any of the sites.
  - Site lighting must be verified or installed with specific coverage required at:
    - Entrances and exits.
    - Parking lots and garages.
- SSE will provide additional lighting requirements in the design phase of the project.

## **Appendix J – Other Pertinent Information**

Refer to the [KSN](#) for the AFTIL-1 and AFTIL-2 meeting minutes and other pertinent information.

## **Appendix K – Safety Risk Management Document**

Refer to the [KSN](#) for the complete safety analysis.

## **Appendix L – Siting Report Amendments**

Not applicable.

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**Appendix C**  
**C1 - Phase 1 ESA Report**  
**C2 - Phase II ESA Report**  
**C3 - Second Round of Soil Vapor Investigation Report**



# PHASE I ENVIRONMENTAL SITE ASSESSMENT

Duluth International Airport (DLH) Airport Traffic Control  
Tower (ATCT)

Site 6

Duluth, Minnesota

*Prepared by Booz Allen Hamilton for:*

FAA Central Service Area, Engineering Services EOSH Center,  
AJW-2C16E

2300 East Devon Avenue, Room 450

Des Plaines, Illinois 60018

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## APPENDICES

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<b>Appendix E</b>	Threatened and Endangered Species List

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## 1.0 EXECUTIVE SUMMARY

Booz Allen Hamilton (Booz Allen), in support of the Federal Aviation Administration (FAA) Central Service Area (CSA) Engineering Services (ES) Environmental and Occupational Safety and Health (EOSH) Center, presents this Phase I Environmental Site Assessment (ESA) report for the Duluth International Airport (DLH) proposed Airport Traffic Control Tower (ATCT) at Site 6, hereinafter referred to as the “subject property.” This ESA is being conducted at one of four proposed locations for a new ATCT at the DLH airport. The purpose of this audit is to exercise due diligence by evaluating potential environmental liabilities associated with the subject property. Booz Allen performed this Phase I ESA in accordance with the scope and limitations of ASTM International (formerly the American Society for Testing and Materials) Standard E1527-21.

The subject property is located in Duluth, St. Louis County, Minnesota. The subject property is located on approximately 2.5 acres of land outside of the Airport Operations Area (AOA) and on the south-central portion of the DLH airport, approximately 5.7 miles northwest of downtown Duluth and 2.5 miles south of Rice Lake Reservoir. Based on a review of the U.S. Geological Survey (USGS) Duluth Heights 7.5-minute topographic map dated 2019, the elevation at the subject property is approximately 1,400 feet above sea level. The area surrounding the subject property and the DLH AOA is relatively flat, sloping gradually to an intermittent stream to the south and Miller Creek to the east. Areas to the south near Highway 53 and areas to the east near Miller Creek are presumed to be topographically downgradient from the subject property. Areas to the north and northwest of the subject property within the DLH AOA are presumed to be topographically upgradient relative to the subject property.

Based on the historical records reviewed, DLH appears to have been utilized as an airfield from at least 1929 (historical research) until the time of the site reconnaissance. The area surrounding the subject property appears to have been primarily used for aviation operations use since the early 1950s and was known as “Duluth Air Force Base” until operations were discontinued in 1980. The subject property appears to have been developed with a house from at least 1939 (aerial photograph) until 1952 (aerial photograph) when the subject property was cleared and graded. A building is first visible on the subject property in 1961 (aerial photograph) and has remained present on the subject property until the time of the site reconnaissance. Two (2) additional buildings were first visible by at least 1972 (aerial photograph) and were removed by at least 2006 (aerial photograph). No significant changes to the subject property were identified from 2006 until the time of the site reconnaissance. Historical aerial photographs and topographic maps are available in Appendix C.

Booz Allen observed the interior of the Hermantown Hydraulics building during the site reconnaissance on November 14, 2022. Multiple buckets and drums of oils and hydraulic fluid were observed in the shop area and extensive areas of petroleum staining were observed on the concrete floor of the shop area. Multiple cracks in the foundation were observed with oil wicking into them. ***Based on the age of the facility and operations observed during the site reconnaissance, this staining and potential impact to soils beneath the building is believed to present a Recognized Environmental Condition (REC) for the subject property.***

Records were requested from various agencies to gather historical information and documentation pertaining to potential environmental liabilities associated with the subject property and surrounding properties. An EDR Radius Report was obtained and used to research historical records for potential environmental concerns. The EDR Radius Report is available in Appendix C.

The former U.S. Air Force Base (AFB) Duluth, within which the subject property is located, was identified on the multiple databases as an active federal- and state-regulated cleanup site. **Based on its current regulatory status as an active remediation site, the former U.S. AFB Duluth is believed to present a REC for the subject property.**

Several Department of Defense facilities at the former U.S. AFB Duluth are also listed on the Voluntary Cleanup Program and Brownfields lists due to historical spill and response activities, but these sites have since received closure determinations. **Based on their current regulatory status and proximity to the subject property, these facilities are believed to present Historic Recognized Environmental Conditions (HRECs) for the subject property.**

A discussion of findings associated with the subject property is provided in Section 8 of this report. This Phase I ESA has revealed two (2) RECs and two (2) HRECs (as defined by ASTM Standard E1527-21) in connection with the subject property, and are described in Table 1 below.

**TABLE 1, LIST OF FINDINGS**

Type	Facility	Location
REC	Hermantown Hydraulics	Subject Property
REC	U.S. Air Force Base Duluth International Airport	Subject Property
HREC	Duluth International Airport – Site #102	Adjoining South
HREC	Duluth International Airport – Block 5	Adjoining Southeast

## 2.0 INTRODUCTION

The FAA requested a Phase I ESA be performed to investigate any possible environmental liabilities associated with four sites that are being considered as potential sites for construction of a proposed new ATCT at the DLH airport:

- Site 3, north of Lackland Street
- Site 4, northeast of the intersection of Airport Road and Vandenberg Drive
- Site 6, north of Airport Road and west of Stebner Road
- Site 7, south of Airport Road and east of Ralston Drive

The scope of this Phase I ESA was to investigate the subject property (Site 6) for RECs, Controlled Recognized Environmental Conditions (CRECs), and HRECs to assist in determining its feasibility for siting a proposed new ATCT. This assessment exercises due diligence in accordance with FAA policy and ASTM International (hereafter referred to as ASTM) E1527-21, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

According to ASTM E1527-21, the term “recognized environmental condition” is defined as:

*(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a likely release*

*to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.*

According to ASTM E1527-21, the term “controlled recognized environmental condition” is defined as:

*recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).*

According to ASTM E1527-21, the term “historical recognized environmental condition” is defined as:

*a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, property use limitations).*

This report serves as documentation of the Phase I ESA for the subject property.

## 2.1 Detailed Scope of Services

A site reconnaissance was conducted on November 14, 2022. The site reconnaissance consisted of a visual survey of property grounds and immediately surrounding areas. The purpose of the site reconnaissance was to identify possible RECs such as chemical storage areas; waste storage areas; suspected disposal areas; indicators of subsurface structures such as drains, sumps, septic systems, and tanks; fuel storage areas; electrical equipment which may contain polychlorinated biphenyls (PCBs); evidence of historical use in a manner that could adversely impact the environment; and evidence of spills or potential releases of hazardous substances such as stressed vegetation and soil staining. Adjoining properties (around both Site 6 and DLH as a whole) were observed to note their condition and usage. Records were obtained from various agencies to gather historical information and documentation pertaining to potential environmental liabilities associated with the Site 6, neighboring facilities at DLH, and properties surrounding the DLH airport. A database search of federal and state environmental records was performed to determine if these neighboring facilities or adjacent properties have the potential to adversely affect the subject property.

## 2.2 Significant Assumptions

Assumptions noted in this report rely on best professional judgment and the inherent truthfulness of third-party interviewees regarding historical site uses. As described in Section 2.3, Booz Allen took reasonable action to avoid making significant assumptions in performance of this Phase I ESA.

## 2.3 Limitations and Exceptions

This Phase I ESA was performed in accordance with the ASTM Standard E1527-21. The methodologies contained in this standard include, among other things, interviews with individuals familiar with the subject property, site reconnaissance, and historical records review. Information obtained during the interviews and site reconnaissance was recorded and reviewed before it was included in this Phase I ESA report. Although not all such information is conducive to independent verification, data from additional government databases was obtained and reviewed using accepted industry standards and practices in an



attempt to confirm or provide secondary support for the information obtained from third parties and while on site. The conclusions summarized herein are based on the limited observations and review described within this submittal at the time the Phase I ESA was conducted. Future events at the subject property or the surrounding properties may alter these findings.

Performing a Phase I ESA in accordance with ASTM Standard E1527-21 is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with a property. However, the ASTM standard recognizes reasonable limits of time and cost associated with performance of the assessment.

## 2.4 Special Terms and Conditions

Booz Allen is not aware of any special terms or conditions that impact the subject property or findings documented in this report.

## 2.5 User Reliance

This Phase I ESA report is for the exclusive use of the FAA and the Duluth Airport Authority. No other party may rely on this report without the written authorization of the FAA and the Duluth Airport Authority.

## 2.6 Site Description

According to the St. Louis County Tax Assessor's webpage, the subject property is located on three (3) parcels (ID 010-0148-00020, ID 010-0148-00080, and ID 010-0148-00200) northeast of downtown Duluth, St. Louis County, Minnesota. The subject property is located on approximately 2.5 acres of land on the southern/central portion of the DLH airport. The subject property is located north of Airport Road and west of Stebner Road. Mapping coordinates for Site 6 are:

Latitude:	46°50'15.39"N
Longitude:	92°11'47.56"W
Elevation:	Approximately 1,400 feet above sea level

## 2.7 Site and Vicinity General Characteristics

The Duluth International Airport has a long history dating back to the 1920s. Originally, the airport was known as Williamson-Johnson Municipal Airport which was constructed in 1929. The airport was renamed to Duluth International Airport in 1961. In 1948, the Minnesota Air National Guard constructed permanent facilities on the northeast side of the airfield and continues to conduct operations in this location. The Air Force occupied the southern half of the airport as "Duluth Air Force Base" after World War II, and discontinued operations in 1980.

The area surrounding the subject property includes airport operations facilities and aircraft maintenance facilities. Commercial properties and unimproved land surround the larger DLH airport area. Highway 53 is located approximately 0.6 miles southwest of the subject property, and the subject property is located approximately 2.5 miles south of Rice Lake Reservoir. The general topographic gradient of the subject property is flat, but the airport property generally slopes gradually to the southeast.

## 2.8 Current Use of the Property

A portion of the subject property appears to be currently occupied by Hermantown Hydraulics (4905 Airport Road). The remainder of the site is developed with Stebner Road, Lackland Street, and undeveloped lots. The subject property has been identified as a potential location for a proposed new ATCT.

## 2.9 Description of Structures, Roads, and Other Improvements on the Site

As shown in Appendix A, the subject property is improved with one (1) building. According to the St. Louis County Tax Assessor's webpage, the building encompasses 3,380 square feet and was constructed in approximately 1970. The subject property is accessible from Airport Road from the south.

Please see Appendix B for the site reconnaissance photographs.

## 2.10 Current Uses of the Adjoining Properties

A review of topographic maps, aerial photographs, site reconnaissance, and interviews revealed that the subject property is adjoined by:

- The Jet Duluth hangar and an AST to the north
- A warehouse and vacant lot to the east (Site 3)
- Airport Road and the Cirrus Design Corporation to the south
- A vacant lot to the west (Site 4)

The subject property is located in an industrial area of the DLH airport. Aircraft maintenance and parts manufacturers are located surrounding the subject property, and the Duluth Federal Prison occupies the majority of the area south of the subject property. Undeveloped land and minor developments border the north, east, and west sides of the DLH airport property. DLH airport facilities are bordered to the south by Highway 53 and residential/commercial developments.

## 3.0 USER PROVIDED INFORMATION

The following sections describe the historical and present ownership of the subject property and its previous uses.

### 3.1 Land and Title Records

The subject property is located on three (3) parcels (ID 010-0148-00020, ID 010-0148-00080, and ID 010-0148-00200) which are owned by the City of Duluth. The City of Duluth is considering the construction of a proposed new ATCT at DLH. The subject property (Site 6) is one of four potential locations for the ATCT.

### 3.2 Environmental Liens or Activity and Use Limitations

No reported Environmental Liens or Activity and Use Limitations (AULs) were found to be associated with the subject property. See the EDR Environmental Lien and AUL search report included in Appendix C.

### 3.3 Specialized Knowledge

No specialized knowledge or experience that is material to RECs in connection with the subject property was communicated by the FAA or to Booz Allen representatives as part of this Phase I ESA.

### 3.4 Commonly Known or Reasonably Ascertainable Information

Records were obtained from various agencies to gather historical information and documentation pertaining to potential environmental liabilities associated with the subject property, the DLH facility, and surrounding properties. A database search of federal and state environmental records was performed to determine if neighboring or adjacent properties have the potential to adversely affect the subject property. From the database research, two (2) RECs and two (2) HRECs were identified.

### 3.5 Valuation Reduction for Environmental Issues

No valuation reduction for environmental issues is predicted.

### 3.6 Owner, Property Manager, and Occupant Information

The subject property is owned by the City of Duluth. The subject property is currently occupied by Hermantown Hydraulics (4905 Airport Road).

### 3.7 Degree of Obviousness

Air Force operations at “Duluth Air Force Base” from the 1940’s until 1980 is considered to present an obvious presence of historic releases at the subject property.

## 4.0 SITE RECONNAISSANCE

On November 14, 2022, Mr. Scott Austin Bolch of Booz Allen Hamilton conducted a walking site reconnaissance of the subject property and adjacent facilities/properties to determine their environmental condition. See Appendix B to review the site reconnaissance photographs. The following sections are based on observations made by Booz Allen during the site reconnaissance.

### 4.1 Methodology and Limiting Conditions

Booz Allen contacted Mr. Mark Papko, Airport Manager at DLH, to schedule the site reconnaissance. Mr. Bolch was escorted by Mr. John Graves, Airport Facilities Manager at DLH, during the site reconnaissance. The weather at the time of the site reconnaissance was cold with overcast skies. Approximately 3 inches of snow accumulation presented a limiting condition for the site reconnaissance but is not believed to be significant. No significant limiting conditions were noted during the site reconnaissance.

### 4.2 General Site Setting

The subject property is located in Duluth, St. Louis County, Minnesota at the Duluth International Airport. At the time of the site reconnaissance, the subject property was developed with one (1) building, paved roads, parking areas, and grass areas.

The subject property is adjoined to the north by the Jet Duluth hangar and a 12,000-gallon AST, and Runway 9/27 is located farther north of the subject property. The subject property is adjoined to the east by a warehouse and vacant lot (Site 3). The subject property is bound to the south by Airport Road and adjoined to the south by the Cirrus Design Corporation building. The subject property is adjoined to the west by a vacant concrete lot (Site 4).

### 4.3 Exterior Observations

The ground surface of the subject property is comprised of grassed areas and asphalt-paved parking lots and roads. One (1) single-story building (4905 Airport Road) occupied by Hermantown Hydraulics was observed on the subject property. The exterior façade of the building appeared to consist of flaking paint. A pile of tires and debris, as well as several empty 55-gallon drums were observed on the north side of the Hermantown Hydraulics building. Multiple concrete pads arranged in a line, and presumed to be remnants of historic support beams, were observed on the east side of the subject property. A review of historical aerial photographs indicates that these concrete pads supported a piping run emanating from the historic building on the southeast adjoining property.

The exterior site reconnaissance did not identify any manufacturing and process areas; chemical storage areas; hazardous waste storage areas; suspected disposal areas; subsurface structures such as drains,

sumps, septic systems, and tanks; or evidence of historical use in a manner that could adversely impact the environment. See Appendix B to review the site reconnaissance photographs.

#### 4.4 Interior Observations

An employee of Hermantown Hydraulics escorted Mr. Bolch and Mr. Graves through the Hermantown Hydraulics facility (4905 Airport Road). The interior of the Hermantown Hydraulics building consists of offices, a lobby, storage rooms, and a shop area. The building is constructed of wood with wood panel siding and a concrete pad foundation. Multiple buckets and drums of oils and hydraulic fluid were observed in the shop area. Reportedly, used oils and fluids are stored in a large drum which is picked up regularly by an outside contractor. Extensive areas of petroleum staining were observed on the concrete floor of the shop area. No floor drains or trenches were observed in the shop area, but multiple cracks in the foundation were observed with oil wicking into them. **Based on the age of the facility and operations observed during the site reconnaissance, this staining and potential impact to soils beneath the building is believed to present a REC for the subject property.**

### 5.0 RECORDS REVIEW

Booz Allen reviewed records from various federal, state, and local agencies to obtain information on any potential environmental concerns that could impact the siting of an ATCT at the subject property. Booz Allen Hamilton also obtained historical aerial photographs, topographic maps, city directories, Sanborn maps, and a Lien and AUL search report from EDR. Refer to Appendix C for the EDR Report.

#### 5.1 Regulatory Records Review

A discussion of the federal, state, and local regulatory records review is provided in the following sections.

##### 5.1.1 Federal and State Records

Information reviewed for this Phase I ESA indicates that:

- No fuel storage tanks are located on the subject property.
- No spill sites are located on the subject property.
- No hazardous waste generators are located on the subject property.

Table 2 below lists databases that were among those searched by EDR for this Phase I ESA. Detailed information contained in these databases and a complete list of all databases searched are included in the EDR Report in Appendix C. EDR identified a total of 80 sites within a 1-mile radius of the subject property. Table 2 also identifies the number of sites identified for further Phase I evaluation in each of the primary databases. A summary of the significant sites is provided in the sections below.

**TABLE 2, KEY REGULATORY DATABASE SEARCH RESULTS**

Database Searched	Results
SEMS-Archive	1 Site
FUDS	1 Site
Minnesota SHWS (State Hazardous Waste Sites)	2 Sites
RCRA-LQG (Resource Conservation and Recovery Act Large Quantity Generator)	2 Sites

Database Searched	Results
RCRA-VSQG (Resource Conservation and Recovery Act Very Small Quantity Generator)	4 Sites
Minnesota LUST (Leaking Underground Storage Tank)	17 Sites
Minnesota LAST (Leaking Aboveground Storage Tank)	6 Sites
Minnesota UST (Underground Storage Tank)	2 Sites
Minnesota VIC (Voluntary Investigation and Cleanup Program)	4 Sites

#### 5.1.1.1 SEMS-Archive

The SEMS-Archive database is comprised of sites that are of no further interest to the Federal Superfund Program within 0.5 miles of the subject property. This list was formerly called the CERCLIS-NFRAP. One (1) facility was identified on the SEMS-Archive database.

##### ***U.S. AFB Duluth International Airport (Stebner Road)***

The former U.S. AFB Duluth, within which the subject property is located, was identified on the SEMS-Archive list. This site was reportedly discovered in August 1980, and a Preliminary Assessment (PA) was completed by the United States Environmental Protection Agency (EPA) in August 1984. The site completed the Site Investigation (SI) phase in January 2003. Although this site has not been added to the EPA's National Priorities List, a review of the EPA Cumulus database indicated that this facility is still active and has not been designated as No Further Remedial Action Planned (NFRAP)<sup>1</sup>. Based on a review of other databases on which this facility is listed, the State of Minnesota appears to be leading active cleanup efforts at this site. ***Based on its current regulatory status as an active remediation site, the former U.S. AFB Duluth is believed to present a REC for the subject property. This REC is a duplicate of those noted in Sections 5.1.1.2 and 5.1.1.3 based on the AFB's inclusion on the SHWS and FUDS lists.***

#### 5.1.1.2 FUDS

The FUDS database includes locations of Formerly Used Defense Sites where the U.S. Army Corps of Engineers (USACE) is conducting cleanup actions. One (1) facility was identified in the FUDS database.

##### ***Duluth International Airport***

The Duluth International Airport site, within which the subject property is located, was identified on the FUDS list. The former Duluth AFB was established in the early 1950s and closed in 1982. A major function of the base included the operation and maintenance of anti-aircraft missiles, Goose Decoy missiles, fighter aircraft, interceptors, and SAFE radar/communications. Tanks, petroleum releases, and building demolition are the subjects of the FUDS program involvement. According to the USACE FUDS Program Management Action Plan<sup>2</sup>, this facility has active remedial action projects in the Installation Restoration Program. ***Based on its current regulatory status as an active remediation site, the former U.S. AFB Duluth is believed to present a REC for the subject property. This REC is a duplicate of those noted in Sections 5.1.1.1 and 5.1.1.3 based on the AFB's inclusion on the SEMS-Archive and SHWS lists.***

<sup>1</sup> <https://cumulis.epa.gov/supercpad/cursites/csitinfo.cfm?id=0504011>

<sup>2</sup> <https://fudsportal.usace.army.mil/ems/inventory/map?id=55056>

### 5.1.1.3 SHWS

The SHWS database is the state equivalent to the federal CERCLIS database. This database is comprised of sites that are planned for environmental cleanup within 1 mile of the subject property. Two (2) facilities were identified on the SHWS database.

#### ***U.S. AFB Duluth International Airport (Stebner Road)***

The former U.S. AFB Duluth, within which the subject property is located, was identified on the SWHS list. According to the Minnesota Pollution Control Agency (MPCA), this facility was added to the State Permanent List of Priorities and multiple Operable Units are undergoing active investigation or remediation activities led by the state<sup>3</sup>. ***Based on its current regulatory status as an active remediation site, the former U.S. AFB Duluth is believed to present a REC for the subject property. This REC is a duplicate of those noted in Sections 5.1.1.1 and 5.1.1.2 based on the AFB's inclusion on the SEMS-Archive and FUDS lists.***

#### ***Bullyan Homes (5014 Miller Trunk Highway)***

The Bullyan Homes facility, located approximately 0.7 miles southwest of the subject property, was identified on the SWHS list. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

### 5.1.1.4 RCRA-LQG

The RCRA LQG database is comprised of sites that generate, transport, store, treat, and/or dispose of hazardous waste within 0.25 miles of the subject property. Two (2) facilities were identified on the RCRA LQG database.

#### ***Cirrus Design Corporation (4940 Airport Road)***

The Cirrus Design Corporation facility, located adjoining the subject property to the south across Airport Road, was identified on the RCRA LQG list. This site operates as an aircraft manufacturing facility, but no reported violations, spills, or releases of hazardous materials were identified in the EPA's Enforcement and Compliance History Online database<sup>4</sup>. Based on its current regulatory status, this facility is not believed to present a REC for the subject property.

#### ***Cirrus Design Corporation (4515 Taylor Circle)***

The Cirrus Design Corporation facility, located approximately 1,300 feet west of the subject property, was identified on the RCRA LQG list. This site operates as an aircraft manufacturing facility, but no reported violations, spills or releases of hazardous materials were identified in the EPA's Enforcement and Compliance History Online database<sup>5</sup>. Based on its current regulatory status and distance from the subject property, this facility is not believed to present a REC for the subject property.

### 5.1.1.5 RCRA-VSQG

The RCRA VSQG database is comprised of sites that generate, transport, store, treat, and/or dispose of hazardous waste within 0.25 miles of the subject property. Four (4) facilities were identified on the RCRA VSQG database. Based on their current regulatory status as VSQGs and/or distance from the subject property, these facilities are not believed to present a REC for the subject property.

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<sup>3</sup> <https://webapp.pca.state.mn.us/wimn/site/192224>

<sup>4</sup> <https://echo.epa.gov/detailed-facility-report?fid=110068107408>

<sup>5</sup> <http://echo.epa.gov/detailed-facility-report?fid=110003728903>

### 5.1.1.6 LUST

The LUST database contains an inventory of reported leaking underground storage tanks within 0.5 miles of the subject property. Seventeen (17) facilities were identified on the LUST database.

#### ***Bureau of Prisons/Department of Justice (4464 Ralston Drive)***

The Federal Prison Camp is located approximately 300 feet south of the subject property. This facility is listed as owned by the Federal Bureau of Prisons and reported a leak from their UST system in June 1994. This facility received closure status on April 4, 1995. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

#### ***Federal Prison (6902 Airport Road)***

The Federal Prison Camp is located approximately 300 feet south of the subject property. This facility is listed as owned by the Federal Bureau of Prisons and reported a leak from their UST system in August 1991. This facility received closure status on February 8, 1994. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

#### ***Old Municipal Hangar (4525 Airport Approach Road)***

The Old Municipal Hangar is located approximately 1,500 feet east of the subject property, near the DLH ATCT. This facility reported a leak from their UST system in October 1998. This facility received closure status on September 13, 2007. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

#### ***Duluth Air Traffic Control Tower (4525 Airport Approach Road)***

The DLH ATCT is located approximately 1,500 feet east of the subject property. This facility is listed as owned by the FAA reported a leak from their UST system in October 1996. This facility received closure status on July 21, 1997. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

#### ***Avis Rent A Car (4701 Airport Road)***

Conflicting location information contained in the Minnesota Department of Pollution Control databases was identified for this facility, but is believed to have been located approximately 1,200 feet east of the subject property. A leaking UST at this location was reported in June 1997, and the incident received closure on August 27, 1997. Based on its downgradient positioning and current regulatory status, this facility is not believed to present a REC for the subject property.

#### ***Airport Maintenance Garage (4701 Airport Road)***

Conflicting location information contained in the Minnesota Department of Pollution Control databases was identified for this facility, but is believed to have been located approximately 1,200 east feet of the subject property. A leaking UST at this location was reported in June 1991, and the site received closure on September 27, 1994. Based on its downgradient positioning and current regulatory status, this facility is not believed to present a REC for the subject property.

#### ***Defense Revitalization and Marketing (4997 Airport Road)***

The Defense Revitalization and Marketing site is located approximately 1,000 feet southwest of the subject property. An UST leak was reported in June 1997, and the facility received closure status on January 14, 1998. Based on its current regulatory status, this facility is not believed to present a REC for the subject property.



***Duluth International Airport Radar Tower***

This grouping of USTs is located approximately 0.5 miles northwest of the subject property. This facility reported a leak from their UST system in July 1996. This facility received closure status on January 28, 1999. Based on its current regulatory status, this facility is not believed to present a REC for the subject property.

Nine (9) other facilities were identified on the LUST database. Based on their distance from the subject property and current regulatory status, these facilities are not believed to present a REC for the subject property.

**5.1.1.7 LAST**

The LAST database contains an inventory of reported leaking aboveground storage tanks within 0.5 miles of the subject property. Six (6) facilities were identified on the LAST database.

***North Country Aviation Inc. (4535 Airport Approach Road)***

The North Country Aviation (aka Monaco Air Duluth) is located approximately 600 feet northeast of the subject property. This facility is listed as owned by Monaco Air Duluth and reported a leak from their AST system in October 2005. This facility received closure status on September 24, 2007. Soil and groundwater contamination was allowed to remain in place following regulatory closure, and no institutional controls were required. However, no information was available to describe the horizontal extent of petroleum contamination at this facility. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

***Bureau of Prisons/Department of Justice (4464 Ralston Drive)***

The Federal Prison Camp is located approximately 300 feet south of the subject property. This facility is listed as owned by the Federal Bureau of Prisons and reported a leak from their AST system in November 1995. This facility received closure status on December 16, 1996. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

***Duluth Air Traffic Control Tower (4525 Airport Approach Road)***

The DLH ATCT is located approximately 1,500 feet east of the subject property. This facility is listed as owned by the FAA and reported a leak from their AST system in May 1998. This facility received closure status on December 11, 1998. This facility reported a second leak in October 1998 and received closure status for this incident in March 2007. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

Three (3) other facilities were identified on the LAST database. Based on their distance from the subject property and current regulatory status, these facilities are not believed to present a REC for the subject property.

**5.1.1.8 UST**

The UST database contains an inventory of registered underground storage tanks within 0.25 miles of the subject property. Two (2) facilities were identified on the UST database.

***National Weather Service Station (4525 Airport Approach Road)***

The National Weather Service Station (previously identified as Old Municipal Hangar) is located approximately 1,500 feet east of the subject property, near the DLH ATCT. One (1) 500-gallon diesel UST

was installed in 1975 and removed in September 1996. One (1) 3,000-gallon fuel oil UST and one (1) 8,000-gallon fuel oil UST were installed in 1998. Both of these tanks have been removed, but the specific date of removal is unreported. Based on its distance from the subject property and current regulatory status, this facility is not believed to present a REC for the subject property.

One (1) other facility was identified on the Minnesota UST database. Based on its distance from the subject property and current regulatory status, this facility is not believed to present a REC for the subject property.

#### 5.1.1.9 VIC

The VIC database contains an inventory of sites in the Minnesota Voluntary Investigation and Cleanup Program within 0.5 miles of the subject property. Four (4) facilities were identified on the VIC database.

##### ***Duluth International Airport – Site #102 (Airport Road)***

The Duluth International Airport – Site #102 facility, located adjoining the subject property to the south across Airport Road, was identified on the VIC and Brownfields databases. This listing refers to an individual voluntary cleanup site, related to the larger U.S. AFB Duluth superfund site. This location is part of a former U.S. Air Force and Air National Guard administration building, and volatile organic compound contamination was detected in groundwater beneath the site and adjoining properties. This facility was entered into the VIC program for redevelopment by Cirrus Design Corporation in 2005, and the site received closure in 2008. According to information retrieved from the MPCA database<sup>6</sup>, this facility was reevaluated under a “Special Projects” designation in March 2020 and June 2022, but no additional action was required. During the site reconnaissance, an inactive remediation system was observed near the reported location of this facility. ***Based on its current regulatory status and distance from the subject property, this facility is believed to present a HREC for the subject property.***

##### ***Duluth International Airport – Block 5 (Airport Road)***

The Duluth International Airport – Block 5 facility, located adjoining the subject property to the southeast across Airport Road, was identified on the VIC and Brownfields databases. This listing refers to an individual voluntary cleanup site, related to the larger U.S. AFB Duluth superfund site. This facility was entered into the VIC program in 2001, and the site received closure in 2002. ***Based on its current regulatory status and distance from the subject property, this facility is believed to present a HREC for the subject property.***

One (1) other facility was identified on the VIC database. Based on its downgradient positioning and distance from the subject property, this facility is not believed to present a REC for the subject property.

#### 5.1.1.10 Additional Records Reviewed

Multiple additional facilities were identified by EDR on supporting databases. Based on a review of their current regulatory status and distance from the subject property, these facilities are not believed to present a REC for the subject property.

### 5.1.2 Orphan Sites

No unmapped (orphan sites) were identified in the EDR report.

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<sup>6</sup> <https://webapp.pca.state.mn.us/wimn/site/11034>

### 5.1.3 Environmental Liens and AULs

Booz Allen utilized EDR to search the St. Louis County Recorder's Office, MPCA records, and EPA records for Environmental Liens and AULs recorded for the DLH tax parcels (ID 010-0148-00020, ID 010-0148-00080, and ID 010-0148-00200). The search did not find any active Environmental Liens or AULs recorded in these databases. Please refer to the Appendix A for the EDR Environmental Lien and AUL Search report.

## 5.2 Additional Record Sources

Booz Allen reviewed pertinent local files, and several references were used to determine the potential for environmental risk at the subject property, as cited in Section 11. Other information was compiled using Internet sources as described in this section.

A wetlands map was obtained from the National Wetlands Inventory (NWI) website <http://wetlands.fws.gov/>. The NWI Map depicts multiple Freshwater Forested/Shrub wetlands (PSS1D, PFO1D, and PFO4D) wetlands located within 0.5 miles of the subject property. Refer to Appendix A for the NWI map.

The Flood Insurance Rate Maps (FIRM) was sought from the Federal Emergency Management Agency (FEMA) website, <https://msc.fema.gov/portal/home>. The subject property is outside of the flood map coverage area.

Information provided on the Natural Resource Conservation Web Soil Survey website, <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>, indicates the subject property is classified as Urban land-Normanna-Canosia complex. These soils are situated glacial moraines at elevations of 1,500 to 1,800 feet. Canosia soil types, which make up 20% of the Urban land-Normanna-Canosia complex, are poorly drained and classified as hydric soils. Refer to Appendix D for the Custom Soil Resource Report.

## 5.3 Physical Setting Source

Based on a review of the USGS Duluth Heights 7.5-minute topographic map dated 2019, the elevation at the subject property is approximately 1,400 feet above sea level. Historical 7.5-minute topographic maps show the topography has not changed significantly since at least 1953.

The area surrounding the subject property and the DLH airport AOA is relatively flat, sloping gradually to an intermittent stream to the south and Miller Creek to the east. The general topographic gradient surrounding the DLH AOA is expected to slope towards Lake Superior which is located approximately 6 miles southeast of the subject property. Areas to the south near Highway 53 and areas to the east near Miller Creek are presumed to be topographically downgradient from the subject property. Areas to the north and northwest of the subject property within the DLH AOA are presumed to be topographically upgradient relative to the subject property. Areas to the west and northeast of the subject property are presumed to be topographically crossgradient relative to the subject property.

Due to the influence of local drainage patterns, the subject property is expected to receive surface water discharge from areas directly to the north and northwest of the subject property and within the DLH AOA and tarmac. Surface water run-off would be expected to flow from the subject site toward the east and south.

## 5.4 Historical Record Sources

Based on the historical records reviewed, DLH appears to have been utilized as an airfield from at least 1929 (historical research) until the time of the site reconnaissance. The area surrounding the subject property appears to have been primarily used for aviation operations use since the early 1950s and was known as "Duluth Air Force Base" until operations were discontinued in 1980. The subject property

appears to have been developed with a house from at least 1939 (aerial photograph) until 1952 (aerial photograph) when the subject property was cleared and graded. A building is first visible on the subject property in 1961 (aerial photograph) and has remained present on the subject property until the time of the site reconnaissance. Two (2) additional buildings were first visible by at least 1972 (aerial photograph) and were removed by at least 2006 (aerial photograph). No significant changes to the subject property were identified from 2006 until the time of the site reconnaissance.

#### 5.4.1 Topographic Map Review

As a part of this investigation, USGS topographic maps for 1895, 1953, 1969, 1975, 1981, 1993, 2013, 2016 and 2019 were obtained from EDR. A description of features observed on the topographic maps is provided in Table 3. Copies of the topographic maps are provided in Appendix C.

**TABLE 3, FEATURES OBSERVED ON TOPOGRAPHIC MAPS**

Topographic Map Year	Topographic Map Direction and Description	
<b>1895</b>	Subject Property	No structures are depicted on the subject property.
	North	Wetlands are depicted north of the subject property.
	East	Wetlands are depicted east of the subject property.
	South	An unnamed road and wetland are depicted south of the subject property.
	West	Wetlands are depicted west of the subject property.
<b>1953</b>	Subject Property	The subject property appears to be located on an area depicted as "Duluth Municipal Airport". A small building and a road (Stebner Road) are depicted in the center of the subject property.
	North	Airport taxiways and runways are depicted north of the subject property.
	East	A small building is depicted adjoining the east side of the subject property. Several runways and taxiways are depicted east of the subject property. The Duluth City boundary and Miller Creek are depicted east of the airport.
	South	Several unnamed roads and small buildings are depicted adjoining the south side of the subject property. Highway 53 is depicted farther south of the subject property.
	West	A road is depicted bordering the west side of the subject property, and a large building is depicted adjoining the subject property to the west. Several buildings and unnamed roads are depicted southwest and west of the subject property.
<b>1969/1975/ 1981/1993</b>	Subject Property	Topographic relief appears relatively unchanged since 1953. Two (2) additional small buildings are depicted on the subject property east of Stebner Road.
	North	A large building is depicted north of the subject site.
	East	A building is depicted on the southeast adjoining property. Additional development is depicted east of the subject property.
	South	Relatively unchanged since 1953.

Topographic Map Year	Topographic Map Direction and Description	
	West	Additional airport development is depicted west of the subject property.
<b>2013/2016/2019</b>	Subject Property	Topographic relief appears relatively unchanged since 1953. Due to the development in the vicinity of the subject property, individual structures are not depicted on these topographic maps.
	North	Relatively unchanged since 1993.
	East	Relatively unchanged since 1993.
	South	Relatively unchanged since 1953.
	West	Relatively unchanged since 1993.

### 5.4.2 Aerial Photography

As a part of the Phase I ESA investigation, historical aerial photographs dated 1939, 1948, 1952, 1961, 1972, 1981, 1989, 1991, 2006, 2010, 2013, and 2017 were obtained from EDR. These aerial photographs were reviewed to determine the historical land use of the subject property, the DLH facility, and the surrounding areas. A discussion of relevant information extracted from the aerial photography is provided in Table 4. Refer to Appendix C for reproductions of the aerial photographs.

**TABLE 4, FEATURES OBSERVED ON AERIAL PHOTOGRAPHS**

Aerial Photograph Year	Aerial Photograph Direction and Description	
<b>1939</b>	Subject Property	The subject property appears to consist of a house and driveway. A road (Stebner Road) is visible in the center of the subject site, running north to south.
	North	The north adjoining property appears to consist of an undeveloped field. A grass strip is visible farther north.
	East	The east adjoining property appears to consist of an undeveloped, wooded area. An aircraft hangar and grass strip are visible farther east.
	South	The south adjoining property appears to consist of an undeveloped field.
	West	The west adjoining property appears to consist of an undeveloped field.
<b>1948/1952</b>	Subject Property	The house on the subject property is no longer visible in the 1952 aerial photograph. The subject property appears to be cleared and graded.
	North	The north adjoining property appears to consist of a cleared area. Airport taxiways and runways are visible north of the subject property. Extensive land clearing and grading is visible in areas north of the subject property.

Aerial Photograph Year	Aerial Photograph Direction and Description	
	East	A building is visible on the east adjoining property, across Stebner Road. Several airport buildings and unpaved roads are visible east of the subject property. Airport taxiways and runways are visible farther east of the subject property. Extensive land clearing and grading is visible in areas east of the subject property.
	South	Several buildings (current federal prison) are visible south of the subject property in the 1952 aerial photograph.
	West	A large hangar and several airport buildings are visible adjoining the west side of the subject property in the 1952 aerial photograph. Extensive land clearing and grading is visible in areas west of the subject property.
<b>1961/1972</b>	Subject Property	A building is visible on the subject property, along the north side of Airport Road. A parking lot is visible on the northwest side of the subject property. Two additional buildings are visible on the subject property in the 1972 aerial photograph.
	North	A warehouse is visible adjoining the northwest side of the subject property.
	East	Several additional buildings and Lackland Street are visible adjoining the subject property to the east. A building is visible adjoining the southwest side of the subject property on the south side of Lackland Street. Runs of piping are visible extending from this building to the east along Lackland Street and to the west along Airport Road.
	South	Extensive development is visible south of the subject property.
	West	Extensive airport development is visible west of the subject property.
<b>1981/1989/1991</b>	Subject Property	Relatively unchanged since 1961.
	North	Relatively unchanged since 1961.
	East	Additional airport development is visible east of the subject property.
	South	The buildings adjoining the south side of the subject property are no longer visible in the 1989 aerial photograph. Additional airport development is visible south of the subject property.
	West	Additional airport development is visible west of the subject property.



Aerial Photograph Year	Aerial Photograph Direction and Description	
<b>2006/2010/2013/2017</b>	Subject Property	The two buildings first visible on the subject property in the 1972 aerial photograph are no longer visible.
	North	A large hangar is visible adjoining the north side of the subject property.
	East	The building adjoining the southeast side of the subject property on the south side of Lackland Street is no longer visible.
	South	The building and runs of piping adjoining the southwest side of the subject property across Lackland Street are no longer visible. A large building is visible adjoining the subject property to the south in the 2017 aerial photograph.
	West	Relatively unchanged since 1991.

### 5.4.3 Sanborn Maps

Booz Allen requested Sanborn map information from EDR for the subject property and adjoining properties. The unmapped property report provided by EDR indicated that Sanborn maps were not found for the subject property. A copy of the unmapped property report is provided in Appendix C.

### 5.4.4 City Directories

Booz Allen requested City Directory information from EDR for the subject property and adjoining properties. Aviation and other industrial businesses were listed along Lackland Street and Airport Road in the 1992, 1995, 2000, 2005, 2010, 2014, and 2017 city directories. A copy of the City Directory report is provided in Appendix C.

## 6.0 INTERVIEWS

### 6.1 Interview with Owner

Mr. Mark Papko, Airport Manager at DLH, completed the ASTM 1527-21 User Questionnaire. Mr. Papko stated site the Hermantown Hydraulics building was completed by 1952. Mr. Papko stated that, to his knowledge, there have been no spills or releases of hazardous materials at the subject property, however, there have been several spills in the area around the site.

Mr. Papko stated that the previous hangar (Hangar 101) located at Site 4 was built by the U.S. Air Force and used for storing and maintaining military aircraft. Hangar 101 is part of the larger U.S. AFB Duluth International Airport site described in Sections 5.1.1.1, 5.1.1.2, and 5.1.1.3. Fuels, solvents, lubricants, paints, corrosives, and adhesives were used on Site 4. The hangar structure was demolished in 2022, but the concrete pad remains.

Mr. Papko stated that Hangar 101 is part of a larger FUDS program, and a RI completed in 2007 indicated that the former DoD operations in the area around Hangar 101 resulted in soil and groundwater contamination with petroleum related compounds and chlorinated solvents. **Based on its current regulatory status as an active remediation site, the former U.S. AFB Duluth is believed to present a REC**

*for the subject property. This REC is a duplicate of those noted in Sections 5.1.1.1, 5.1.1.2, and 5.1.1.3 based on the AFB's inclusion on the SEMS-Archive, SHWS, and FUDS lists.*

## 6.2 Interview with Site Technician

Booz Allen Hamilton conducted an interview with Mr. John Graves, Airport Facilities Manager at DLH, during the site reconnaissance on November 14, 2022. During the site reconnaissance, Mr. Graves escorted Mr. Bolch through the subject property as described in Section 4.4 and provided information on properties adjoining the subject property.

## 6.3 Interviews with Occupants

Booz Allen Hamilton conducted an interview with Buddy, an employee of Hermantown Hydraulics. Reportedly, used oils and fluids are stored in a large tank in the shop area which is picked up regularly by an outside contractor. Buddy stated that no hazardous waste is stored or generated onsite, and they do not operate any underground storage tanks.

## 6.4 Interviews with Local Government Officials

Booz Allen submitted an online Freedom of Information Act (FOIA) request to the City of Duluth for records on fires or spills at or around the subject property, environmental documentation, building/occupancy permits, fuel storage tank registration documents, and/or other pertinent activity.

At the time of the completion of this report, no response was received from the City of Duluth. If any additional information is received which changes the findings of this Phase I ESA, Booz Allen will release an addendum to the report.

## 6.5 Interviews with Others

Research and investigation efforts provided all information required for this Phase I ESA. Therefore, no additional interviews were deemed necessary.

## 7.0 NON-SCOPE SERVICES

This Phase I ESA included a preliminary evaluation of specific potential environmental issues or conditions that are, according to ASTM E 1527-21, identified as non-scope considerations and would not give rise to formal RECs. These non-scope considerations are detailed in the sections below.

### 7.1 Asbestos-Containing Building Materials

No asbestos sampling was conducted as part of this Phase I ESA. No historical record or documentation was found during this Phase I ESA to indicate that asbestos-containing materials or asbestos contamination are present at the subject property. ***Based on the age of the building on the subject property, asbestos-containing materials are likely present.***

### 7.2 Lead-Based Paint

No lead sampling was conducted as part of this Phase I ESA. No historical record or documentation was found during this Phase I ESA to indicate that lead contamination is present at the subject property. ***Based on the age of the building on the subject property, lead-based paint is likely present.***

### 7.3 PCB-containing Building Materials

No PCB sampling was conducted as part of this Phase I ESA. No historical record or documentation was found during this Phase I ESA to indicate that PCB-containing items or PCB contamination are present at

the subject property. **Based on the age of the building on the subject property, PCB-containing building materials are likely present.**

## 7.4 Naturally-Occurring Radon

Radon is a naturally occurring, colorless, odorless gas that is a by-product of the decay of radioactive materials potentially present in bedrock and soil. The EPA guidance action level for annual residential exposure to radon is 4.0 picoCuries/liter of air (pCi/L). The guidance action level is not a regulatory requirement for private owners of commercial real estate but is commonly used for comparison purposes to indicate whether further action at a building may be prudent.

Radon levels were not quantitatively obtained during the Phase I ESA. According to the EPA, the radon zone for St. Louis County is Zone 2. This zoning indicates that there is a low potential for unacceptable radon exposures, with indoor average radon levels ranging between 2 and 4 pCi/L.

## 7.5 Threatened and Endangered Species

The U.S. Fish and Wildlife Service (FWS) Endangered Species Program was queried for threatened and endangered species known to inhabit St. Louis County, Minnesota. According to the FWS, **the subject property is considered within the boundary of the critical habitat of the Canadian Lynx**. A full list of the threatened and endangered species evaluated for their potential presence in the area is provided in Appendix E.

## 7.6 Cultural and Historic Resources

The National Historic Preservation Act, as amended in 16 United States Code (USC) 470, is the fundamental law addressing the protection, rehabilitation, restoration, and reconstruction of cultural resources. Section 106 of this Act requires that federal agencies take measures to protect properties eligible for or included in the National Register of Historic Places (NRHP). Other statutes, such as the Archaeological Resources Protection Act (16 USC 470aa-470ii), protect non-structural properties of historical importance. During the site reconnaissance, no such NRHP sites were observed. A review of the NRHP did not reveal any information to suggest that the subject property would be covered under the above-referenced statutes.

## 7.7 Mold Screening

Physical sampling of mold or confirmatory testing was not included in the scope of work for this Phase I ESA. Based on the observations of the building located on the subject property, mold is not believed to be present.

# 8.0 FINDINGS AND OPINIONS

The subject property is located in Duluth, St. Louis County, Minnesota. The subject property is located on approximately 2.5 acres of land outside of the AOA and on the southern/central portion of the DLH airport, approximately 5.7 miles northwest of downtown Duluth and 2.5 miles south of Rice Lake Reservoir. Based on a review of the USGS Duluth Heights 7.5-minute topographic map dated 2019, the elevation at the subject property is approximately 1,400 feet above sea level. The area surrounding the subject property and the DLH airport AOA is relatively flat, sloping gradually to an intermittent stream to the south and Miller Creek to the east. Areas to the south near Highway 53 and areas to the east near Miller Creek are presumed to be topographically downgradient from the subject property. Areas to the north and northwest of the subject property within the DLH AOA are presumed to be topographically upgradient relative to the subject property.

Based on the historical records reviewed, DLH appears to have been utilized as an airfield from at least 1929 (historical research) until the time of the site reconnaissance. The area surrounding the subject property appears to have been primarily used for aviation operations use since the early 1950s and was known as “Duluth Air Force Base” until operations were discontinued in 1980. The subject property appears to have been developed with a house from at least 1939 (aerial photograph) until 1952 (aerial photograph) when the subject property was cleared and graded. A building is first visible on the subject property in 1961 (aerial photograph) and has remained present on the subject property until the time of the site reconnaissance. Two (2) additional buildings were first visible by at least 1972 (aerial photograph) and were removed by at least 2006 (aerial photograph). No significant changes to the subject property were identified from 2006 until the time of the site reconnaissance. Historical aerial photographs and topographic maps are available in Appendix C.

Booz Allen observed the interior of the Hermantown Hydraulics building during the site reconnaissance on November 14, 2022. Multiple buckets and drums of oils and hydraulic fluid were observed in the shop area and extensive areas of petroleum staining were observed on the concrete floor of the shop area. Multiple cracks in the foundation were observed with oil wicking into them. ***Based on the age of the facility and operations observed during the site reconnaissance, this staining and potential impact to soils beneath the building is believed to present a REC for the subject property.***

Records were requested from various agencies to gather historical information and documentation pertaining to potential environmental liabilities associated with the subject property and surrounding properties. An EDR Radius Report was obtained and used to research historical records for potential environmental concerns. The EDR Radius Report is available in Appendix C.

The former U.S. AFB Duluth, within which the subject property is located, was identified on the SEMS-Archive, SWHS, and FUDS lists. ***Based on its current regulatory status as an active remediation site, the former U.S. AFB Duluth is believed to present a REC for the subject property.***

Several Department of Defense facilities at the former U.S. AFB Duluth are also listed on the VIC and Brownfields lists due to historical spill and response activities, but these sites have since received closure determinations. ***Based on their current regulatory status and proximity to the subject property, these facilities are believed to present HRECs for the subject property.***

## 9.0 CONCLUSIONS

Booz Allen has performed a Phase I ESA of Site 6 at the Duluth International Airport in Duluth, St. Louis County, Minnesota. This Phase I ESA was conducted in conformance with the scope and limitations of ASTM Standard E1527-21. Any exceptions to, or deletions from, this practice are described in Section 2 of this report. This assessment revealed evidence of two (2) RECs and two (2) HRECs in connection with the subject property, and are described in Table 5 below.

TABLE 5, LIST OF FINDINGS

Type	Facility	Location
REC	Hermantown Hydraulics	Subject Property
REC	U.S. Air Force Base Duluth International Airport	Subject Property
HREC	Duluth International Airport – Site #102	Adjoining South

HREC	Duluth International Airport – Block 5	Adjoining Southeast
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This Phase I ESA also included a preliminary evaluation of specific potential environmental issues or conditions that are, according to ASTM E 1527-21, considered non-scope considerations and would not be considered RECs. Based on the age of the building on the subject property, asbestos-containing materials, lead-based paint, and PCB-containing building materials are likely present.

## 10.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

This Phase I ESA was performed in accordance with ASTM Standard E1527-21. The methodologies contained in these standards and orders include, among other things, interviews with individuals familiar with the subject property, site reconnaissance, and historical records review. Information obtained during the interviews and site reconnaissance was recorded and reviewed before being included in this Phase I ESA report. All such information is assumed to be reliable. The purpose of this investigation is to provide the FAA with information regarding any existing or potential environmental concerns on or surrounding the subject property.

I declare that, to the best of my professional knowledge and belief, I meet the definition of environmental professional as defined in §312.10 of 40 CFR Part 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 and ASTM Standard E1527-21. The following signature attests to these statements:

\_\_\_\_\_  
Scott Austin Bolch, Booz Allen Hamilton

\_\_\_\_\_  
January 6, 2023

\_\_\_\_\_  
Date:

## 11.0 REFERENCES

ASTM International, ASTM E1527-21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, December 2021.

Environmental data, topographic maps, city directories, and aerial photography were obtained from EDR using the EDR Radius Map Report with GeoCheck, Inquiry Number 7172732.2s, dated November 8, 2022. Copy of report provided in Appendix C.

The information regarding land parcels was obtained from the St. Louis County GIS website: <https://gis.stlouiscountymn.gov/landexplorer/>

The information regarding wetlands was obtained from the NWI website: <https://www.fws.gov/wetlands/>. Copy of referenced map provided in Appendix A.

The information regarding flood insurance rates was obtained from the FEMA website: <https://msc.fema.gov/portal>. Copy of referenced map provided in Appendix A.

The information regarding soil types was obtained from the USDA Natural Resource Conservation Service website: <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>. Copy of reference provided in Appendix D.

The information regarding threatened and endangered species was obtained from the FWS Information for Planning and Consultation website: <https://ecos.fws.gov/ipac/>. Copy of reference provided in Appendix E.

The information regarding radon zones in Minnesota was obtained from the EPA website: <https://www.epa.gov/radon/find-information-about-local-radon-zones-and-state-contact-information#radonmap>. Copy of referenced map provided in Appendix A.

The information regarding National Historic Structures was obtained from the National Park Service's NRHP website: <https://npgallery.nps.gov/nrhp>.



## APPENDIX A FIGURES



Subject Site 6

**Booz | Allen | Hamilton**

strategy and technology consultants

1349 West Peachtree Street NW, Suite 1400  
Atlanta, GA 30309

## Subject Site Location Overview

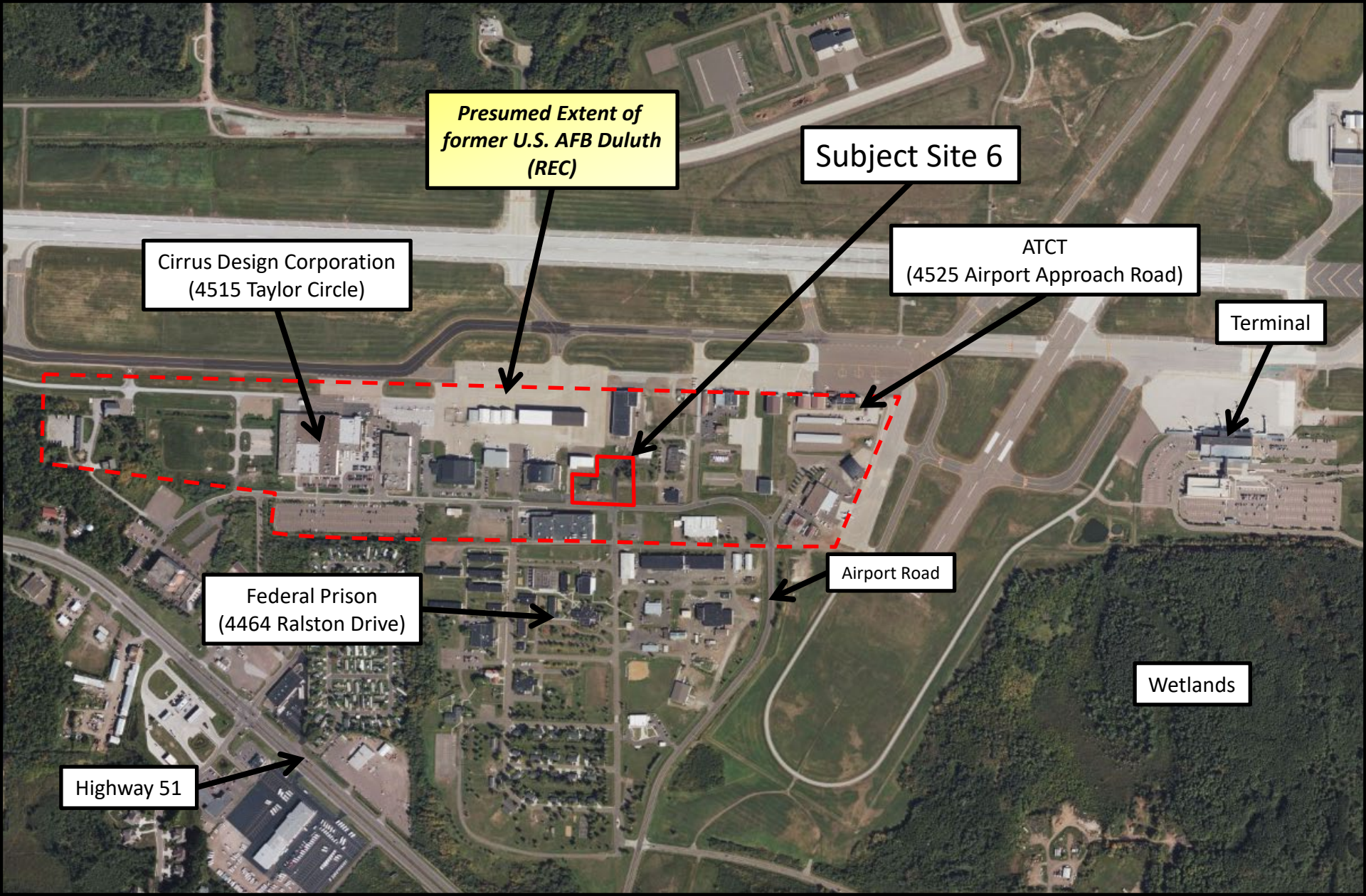
Source: USDA Web Soil Survey 2020 Aerial Photo

DLH ATCT Siting

Duluth, MN







*Presumed Extent of  
former U.S. AFB Duluth  
(REC)*

Subject Site 6

Cirrus Design Corporation  
(4515 Taylor Circle)

ATCT  
(4525 Airport Approach Road)

Terminal

Federal Prison  
(4464 Ralston Drive)

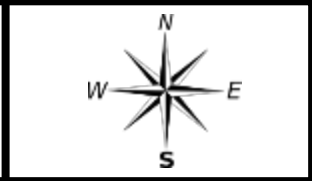
Airport Road

Wetlands

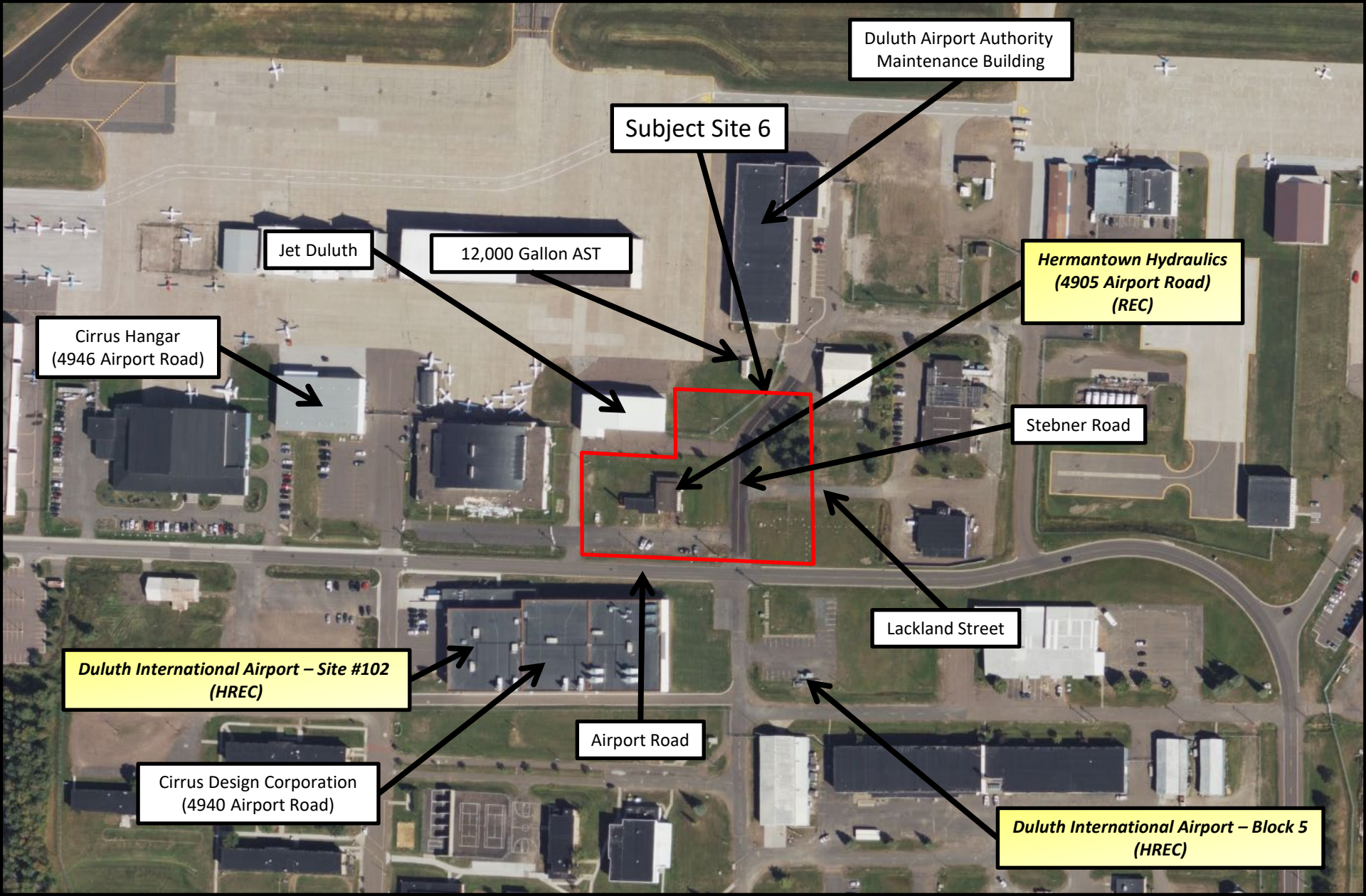
Highway 51

**Booz | Allen | Hamilton**  
strategy and technology consultants  
1349 West Peachtree Street NW, Suite 1400  
Atlanta, GA 30309

**Subject Site and Surrounding Properties**  
Source: USDA Web Soil Survey 2020 Aerial Photo  
**DLH ATCT Siting** **Duluth, MN**







Duluth Airport Authority  
Maintenance Building

Subject Site 6

Jet Duluth

12,000 Gallon AST

**Hermantown Hydraulics  
(4905 Airport Road)  
(REC)**

Cirrus Hangar  
(4946 Airport Road)

Stebner Road

Lackland Street

**Duluth International Airport – Site #102  
(HREC)**

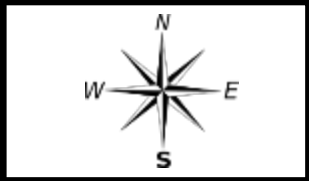
Airport Road

Cirrus Design Corporation  
(4940 Airport Road)

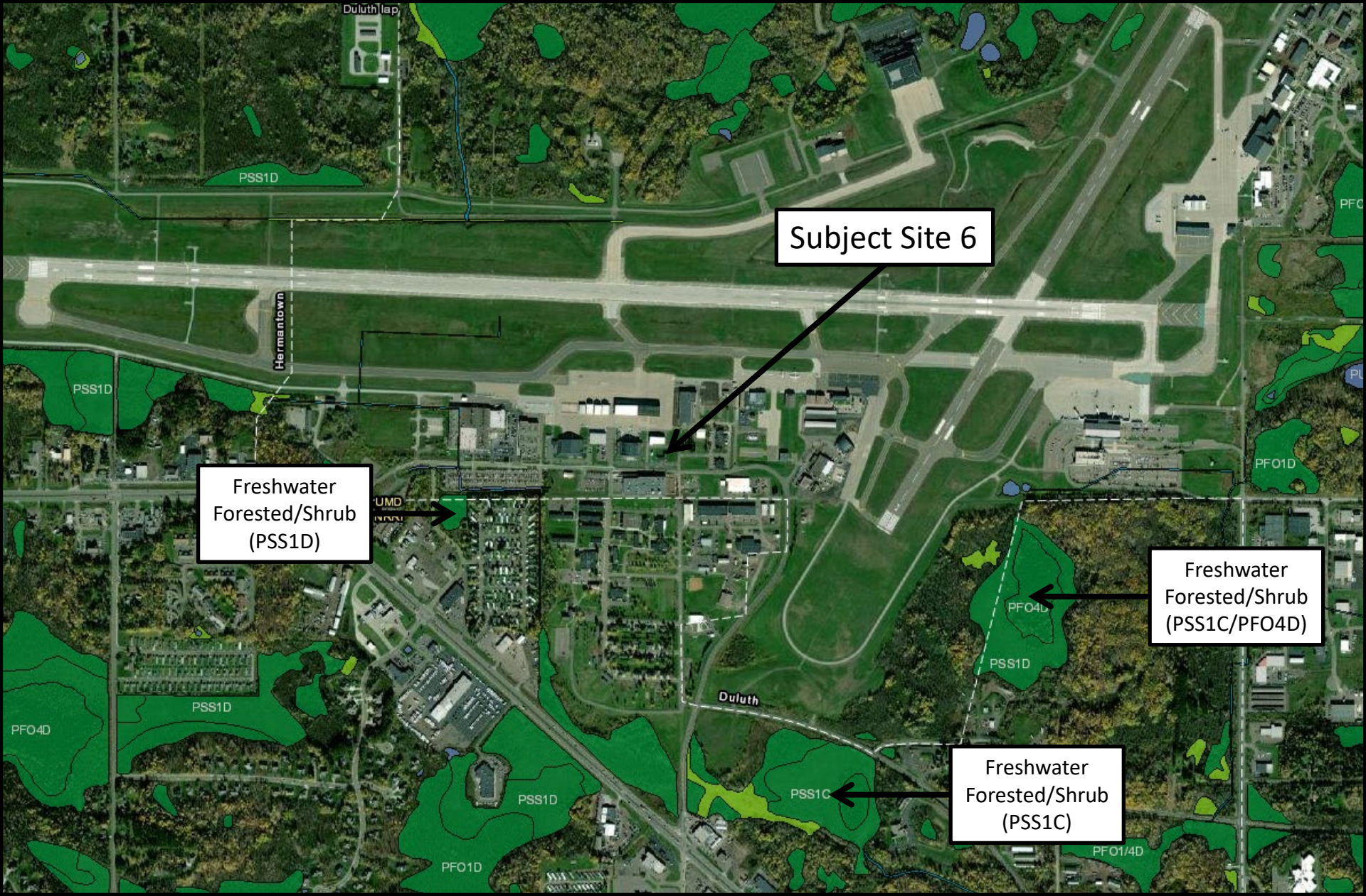
**Duluth International Airport – Block 5  
(HREC)**

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Atlanta, GA 30309

**Subject Site and Surrounding Properties**  
Source: USDA Web Soil Survey 2020 Aerial Photo  
**DLH ATCT Siting** **Duluth, MN**





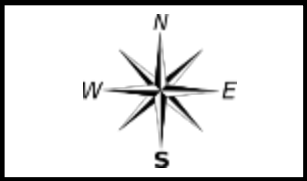


Subject Site 6

Freshwater Forested/Shrub (PSS1D)

Freshwater Forested/Shrub (PSS1C/PFO4D)

Freshwater Forested/Shrub (PSS1C)





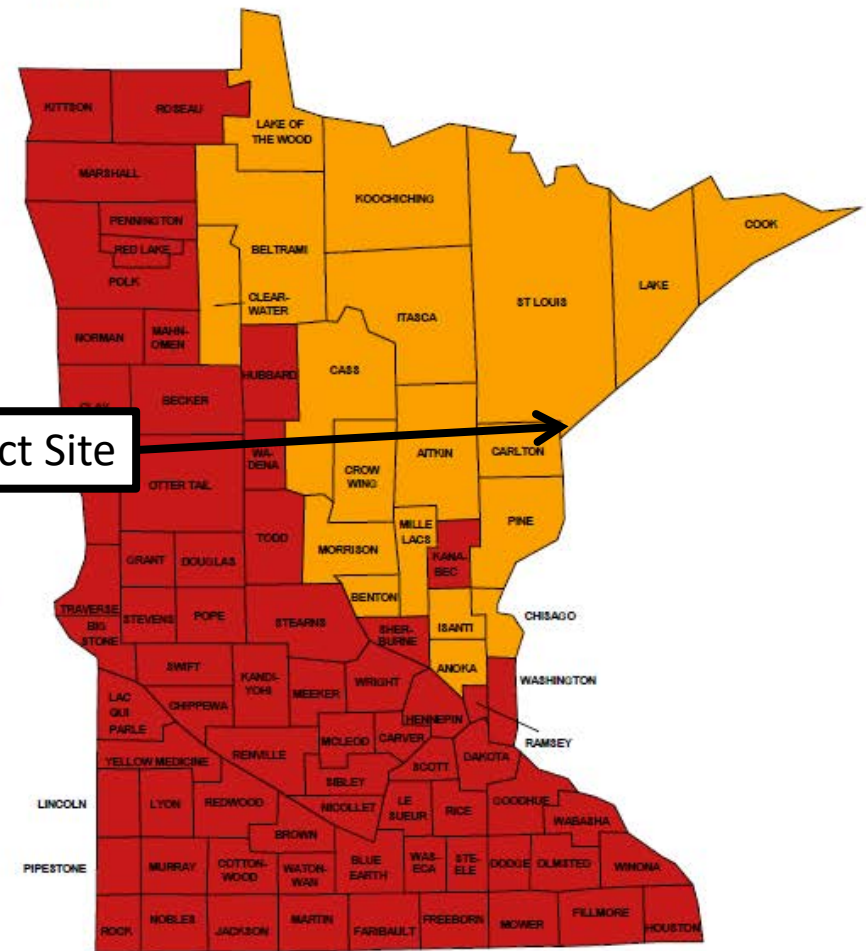
# MINNESOTA - EPA Map of Radon Zones

<http://www.epa.gov/radon/zonemap.html>

The purpose of this map is to assist National, State and local organizations to target their resources and to implement radon-resistant building codes.

This map is not intended to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones.

*All homes should be tested, regardless of zone designation.*



**IMPORTANT:** Consult the publication entitled "Preliminary Geologic Radon Potential Assessment of Minnesota" (USGS Open-file Report 93-292-E) before using this map. <http://energy.cr.usgs.gov/radon/grpinfo.html> This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area.

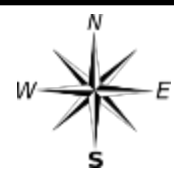


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strategy and technology consultants  
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Atlanta, GA 30309

## EPA Map of Radon Zones

DLH ATCT Siting

Duluth, MN







## APPENDIX B PHOTOGRAPHS

## Appendix B – Site Photographs

1. Photo No. <b style="font-size: 2em;">1</b>	2. Facility DLH ATCT – Site 6	1. Photo No. <b style="font-size: 2em;">2</b>	2. Facility DLH ATCT – Site 6
3. Date November 14, 2022	4. Photographer Scott Austin Bolch	3. Date November 14, 2022	4. Photographer Scott Austin Bolch
5. Location  Duluth International Airport – Duluth, Minnesota		5. Location  Duluth International Airport – Duluth, Minnesota	
6. Description View of the center of the subject property and Hermantown Hydraulics building (facing northeast).		6. Description View of the center of the subject property and Hermantown Hydraulics building from Stubner Road (facing southwest).	



## Appendix B – Site Photographs

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">1. Photo No.</td> <td style="text-align: center; font-size: 24pt;"><b>3</b></td> <td style="width: 80%;">2. Facility</td> <td style="text-align: center;">DLH ATCT – Site 6</td> </tr> <tr> <td>3. Date</td> <td style="text-align: center;">November 14, 2022</td> <td>4. Photographer</td> <td style="text-align: center;">Scott Austin Bolch</td> </tr> <tr> <td colspan="4">5. Location</td> </tr> <tr> <td colspan="4" style="text-align: center;">Duluth International Airport – Duluth, Minnesota</td> </tr> <tr> <td colspan="4">6. Description</td> </tr> <tr> <td colspan="4">View of the east side of the subject property (facing west).</td> </tr> </table>	1. Photo No.	<b>3</b>	2. Facility	DLH ATCT – Site 6	3. Date	November 14, 2022	4. Photographer	Scott Austin Bolch	5. Location				Duluth International Airport – Duluth, Minnesota				6. Description				View of the east side of the subject property (facing west).				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">1. Photo No.</td> <td style="text-align: center; font-size: 24pt;"><b>4</b></td> <td style="width: 80%;">2. Facility</td> <td style="text-align: center;">DLH ATCT – Site 6</td> </tr> <tr> <td>3. Date</td> <td style="text-align: center;">November 14, 2022</td> <td>4. Photographer</td> <td style="text-align: center;">Scott Austin Bolch</td> </tr> <tr> <td colspan="4">5. Location</td> </tr> <tr> <td colspan="4" style="text-align: center;">Duluth International Airport – Duluth, Minnesota</td> </tr> <tr> <td colspan="4">6. Description</td> </tr> <tr> <td colspan="4">View of debris on the north side of the Hermantown Hydraulics building. Flaking paint was observed on the exterior of the building.</td> </tr> </table>	1. Photo No.	<b>4</b>	2. Facility	DLH ATCT – Site 6	3. Date	November 14, 2022	4. Photographer	Scott Austin Bolch	5. Location				Duluth International Airport – Duluth, Minnesota				6. Description				View of debris on the north side of the Hermantown Hydraulics building. Flaking paint was observed on the exterior of the building.			
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 <p style="text-align: right; color: green; font-size: 12pt;">46.83749, -92.19515, 1325.2ft, 235° 11/14/2022 09:42:12</p>	 <p style="text-align: right; color: green; font-size: 12pt;">46.83777, -92.19656, 1341.4ft, 165° 11/14/2022 09:02:13</p>																																																



## Appendix B – Site Photographs

1. Photo No.	<b>5</b>	2. Facility	DLH ATCT – Site 6
3. Date	November 14, 2022	4. Photographer	Scott Austin Bolch
5. Location			
Duluth International Airport – Duluth, Minnesota			
6. Description			
View of work areas inside the Hermantown Hydraulics building. Extensive petroleum staining is visible on the floor.			

1. Photo No.	<b>6</b>	2. Facility	DLH ATCT – Site 6
3. Date	November 14, 2022	4. Photographer	Scott Austin Bolch
5. Location			
Duluth International Airport – Duluth, Minnesota			
6. Description			
View of work areas inside the Hermantown Hydraulics building. Extensive petroleum staining is visible on the floor.			



## Appendix B – Site Photographs

1. Photo No. <b style="font-size: 2em;">7</b>	2. Facility DLH ATCT – Site 6	1. Photo No. <b style="font-size: 2em;">8</b>	2. Facility DLH ATCT – Site 6
3. Date November 14, 2022	4. Photographer Scott Austin Bolch	3. Date November 14, 2022	4. Photographer Scott Austin Bolch
5. Location  Duluth International Airport – Duluth, Minnesota		5. Location  Duluth International Airport – Duluth, Minnesota	
6. Description View of the Jet Duluth hangar adjoining the north side of the subject property (facing northwest).		6. Description View of the 12,000-gallon AST adjoining the north side of the subject property (facing north).	



## Appendix B – Site Photographs

1. Photo No. <b style="font-size: 24pt;">9</b>	2. Facility DLH ATCT – Site 6	1. Photo No. <b style="font-size: 24pt;">10</b>	2. Facility DLH ATCT – Site 6
3. Date November 14, 2022	4. Photographer Scott Austin Bolch	3. Date November 14, 2022	4. Photographer Scott Austin Bolch
5. Location  Duluth International Airport – Duluth, Minnesota		5. Location  Duluth International Airport – Duluth, Minnesota	
6. Description View of Lackland Street and the lot adjoining the east side of the subject property (facing southeast).		6. Description View of the 12,000-gallon AST and hangars adjoining the west side of the subject property (facing west).	





## APPENDIX C EDR REPORT

**DLH ATCT**  
Lackland Street  
Duluth, MN 55811

Inquiry Number: 7172732.2s  
November 08, 2022

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
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Physical Setting Source Map .....	A-10
Physical Setting Source Map Findings .....	A-11
Physical Setting Source Records Searched .....	PSGR-1

*Thank you for your business.*  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

LACKLAND STREET  
DULUTH, MN 55811

#### COORDINATES

Latitude (North): 46.8369050 - 46° 50' 12.85"  
Longitude (West): 92.1935190 - 92° 11' 36.66"  
Universal Transverse Mercator: Zone 15  
UTM X (Meters): 561501.2  
UTM Y (Meters): 5187137.5  
Elevation: 1431 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 13283469 DULUTH HEIGHTS, MN  
Version Date: 2019

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150922  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
LACKLAND STREET  
DULUTH, MN 55811

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">Reg</a>	DULUTH IAP		DOD	Same	4011, 0.760, NE
<a href="#">1</a>	DULUTH TRUCK DRIVING	8222 STEBNER RD	MN AST	Lower	1 ft.
<a href="#">2</a>	NORTHSTAR MACHINE &	4845 LACKLAND ST	RCRA NonGen / NLR, FINDS, ECHO, MN WIMN	Lower	1 ft.
<a href="#">A3</a>	AVIS RENT A CAR	4701 AIRPORT RD	MN UST	Lower	40, 0.008, East
<a href="#">A4</a>	AVIS RENT A CAR	4701 AIRPORT RD	MN LUST, MN SRS, MN SPILLS, MN Financial...	Lower	40, 0.008, East
<a href="#">B5</a>	CIRRUS COMPLETION CE	4926 AIRPORT RD	MN NPDES, MN WIMN	Lower	47, 0.009, West
<a href="#">B6</a>	CIRRUS DESIGN CORP A	4940 AIRPORT RD # 50	MN NPDES, MN WIMN	Lower	64, 0.012, West
<a href="#">B7</a>	CIRRUS DESIGN CORP A	4940 AIRPORT RD	RCRA-LQG	Lower	64, 0.012, West
<a href="#">C8</a>	CIRRUS AIRCRAFT COMP		MN WIMN	Lower	81, 0.015, West
<a href="#">A9</a>	MINNESOTA POWER - HA	4511 AIRPORT APPROAC	MN WIMN	Lower	88, 0.017, ENE
<a href="#">A10</a>	MINNESOTA POWER - HA	4511 AIRPORT APPROAC	RCRA-VSQG	Lower	88, 0.017, ENE
<a href="#">11</a>	CIRRUS DESIGN CORP A	4961 AIRPORT RD	MN NPDES, MN WIMN	Lower	108, 0.020, West
<a href="#">A12</a>	FEDEX DLH	4510 AIRPORT APPROAC	RCRA-VSQG, FINDS, ECHO, MN MANIFEST, MN NPDES, MN	Lower	124, 0.023, East
<a href="#">A13</a>	OLD MUNICIPAL HANGER	4525 AIRPORT APPROAC	MN LUST, MN SRS, MN WIMN	Lower	151, 0.029, ENE
<a href="#">A14</a>	FEDERAL AVIATION ADM	4525 AIRPORT APPROAC	MN AST	Lower	151, 0.029, ENE
<a href="#">A15</a>	DULUTH AIR TRAFFIC C	4525 AIRPORT APPROAC	MN LUST, MN LAST, MN SRS, MN Financial Assurance,...	Lower	151, 0.029, ENE
<a href="#">A16</a>	LAKE SUPERIOR HELICO	4525 AIRPORT APPROAC	RCRA-VSQG, FINDS, ECHO	Lower	151, 0.029, ENE
<a href="#">A17</a>	NATIONAL WEATHER SER	4525 AIRPORT APPROAC	MN UST	Lower	151, 0.029, ENE
<a href="#">C18</a>	DULUTH INTERNATIONAL	AIRPORT ROAD, SITE 1	MN LS	Lower	166, 0.031, WSW
<a href="#">C19</a>	DULUTH INTERNATIONAL	AIRPORT ROAD, SITE 1	MN VIC, MN BROWNFIELDS, MN SRS	Lower	166, 0.031, WSW
<a href="#">A20</a>	DULUTH AIRBASE OLD T	4516 AIRPORT APPROAC	MN SRS, MN Financial Assurance, MN VAPOR, MN WIMN	Lower	171, 0.032, ENE
<a href="#">A21</a>	MONACO AIR DULUTH	4535 AIRPORT APPROAC	MN AST	Lower	222, 0.042, ENE
<a href="#">A22</a>	NORTH COUNTRY AVIATI	4535 AIRPORT APPROAC	MN LAST, MN SRS, MN SPILLS, RCRA NonGen / NLR,...	Lower	222, 0.042, ENE
<a href="#">A23</a>	MONACO AIR DULUTH	4535 AIRPORT APPROAC	MN SPILLS, MN Financial Assurance, MN MANIFEST, MN...	Lower	222, 0.042, ENE
<a href="#">C24</a>	DULUTH INTERNATIONAL	SEE LOCATION DESCRIP	MN VIC, MN BROWNFIELDS, MN SRS, MN VAPOR	Lower	231, 0.044, WSW
<a href="#">C25</a>	FEDERAL PRISON CAMP	4464 RALSTON DR	MN AST	Lower	249, 0.047, WSW
<a href="#">C26</a>	BUREAU OF PRISONS/DE	4464 RALSTON DR	MN LUST, MN LAST, MN SRS, MN Financial Assurance,...	Lower	249, 0.047, WSW
<a href="#">D27</a>	DULUTH INTERNATIONAL	AIRPORT ROAD	MN BROWNFIELDS, MN SRS	Lower	341, 0.065, West
<a href="#">D28</a>	DULUTH INTERNATIONAL	AIRPORT ROAD	MN VIC	Lower	341, 0.065, West
<a href="#">E29</a>	LAKE SUPERIOR COLLEG	4960 AIRPORT RD	RCRA-VSQG	Lower	349, 0.066, West
<a href="#">E30</a>	LAKE SUPERIOR COLLEG	4960 AIRPORT RD	MN WIMN	Lower	349, 0.066, West
<a href="#">D31</a>	DULUTH INTERNATIONAL	AIRPORT ROAD	MN LS, MN WIMN	Lower	357, 0.068, West
<a href="#">32</a>	FEDERAL PRISON	6902 AIRPORT RD	MN LUST, MN SRS, MN Financial Assurance, MN WIMN	Lower	466, 0.088, South
<a href="#">33</a>	DULUTH TRUCK DRIVING	8222 STEBNER RD	RCRA NonGen / NLR	Lower	547, 0.104, SSE
<a href="#">34</a>	AIRPORT MAINTENANCE	DULUTH INTERNATIONAL	MN LUST, MN SRS, MN Financial Assurance, MN VAPOR	Lower	732, 0.139, WNW
<a href="#">F35</a>	FORMER MANG TANK FAR	4977 AIRPORT RD	MN Financial Assurance, MN WIMN	Lower	780, 0.148, West
<a href="#">F36</a>	DEFENSE REVITILIZATI	4997 AIRPORT RD	MN LUST, MN SRS, MN SPILLS, MN Financial...	Lower	903, 0.171, West
<a href="#">37</a>	DULUTH INTERNATIONAL		FUDS	Lower	932, 0.177, North
<a href="#">F38</a>	PLATING SPECIALTIES	4505 TAYLOR CIR	RCRA NonGen / NLR, FINDS, ECHO	Lower	935, 0.177, West

MAPPED SITES SUMMARY

Target Property Address:  
LACKLAND STREET  
DULUTH, MN 55811

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">F39</a>	PLATING SPECIALTIES	4505 TAYLOR CIR	MN ENF, MN WIMN	Lower	935, 0.177, West
<a href="#">G40</a>	US AFB DULUTH INTL A	STEBNER RD	SEMS, RCRA NonGen / NLR, DOCKET HWC, NY MANIFEST	Lower	944, 0.179, South
<a href="#">F41</a>	NAVY OPERATIONAL SUP	5019 AIRPORT RD	RCRA NonGen / NLR	Lower	956, 0.181, West
<a href="#">F42</a>	NAVY OPERATIONAL SUP	5019 AIRPORT RD	MN WIMN	Lower	956, 0.181, West
<a href="#">H43</a>	CIRRUS DESIGN CORP/	4515 TAYLOR CIR	MN NPDES, MN WIMN	Lower	957, 0.181, WNW
<a href="#">H44</a>	CIRRUS DESIGN CORP A	4515 TAYLOR CIR	MN MANIFEST	Lower	957, 0.181, WNW
<a href="#">H45</a>	CIRRUS DESIGN CORP A	4515 TAYLOR CIR	MN AST	Lower	957, 0.181, WNW
<a href="#">H46</a>	CIRRUS DESIGN CORPOR	4515 TAYLOR CIRCLE	RCRA-LQG, FINDS, ECHO, WI MANIFEST	Lower	957, 0.181, WNW
<a href="#">H47</a>	CIRRUS DESIGN CORP A	4515 TAYLOR CIR	MN ENF, MN WIMN	Lower	957, 0.181, WNW
<a href="#">G48</a>	REPAIR PMEL ASPHALT	4437 AIRPORT APPROAC	MN NPDES, MN WIMN	Lower	971, 0.184, South
<a href="#">I49</a>	DULUTH AIR FORCE BAS	SEE LOCATION DESCRIP	MN SHWS	Lower	1681, 0.318, WNW
<a href="#">I50</a>	DULUTH AIR FORCE BAS	SEE LOCATION DESCRIP	MN SRS, MN VAPOR	Lower	1681, 0.318, WNW
<a href="#">51</a>	DULUTH INTL AIRPORT	SEE LOCATION DESCRIP	MN LUST, MN SRS, MN Financial Assurance, MN WIMN	Lower	1709, 0.324, NNW
<a href="#">52</a>	STATE HQ 1ST BN 94TH	5015 AIR PARK BLVD	MN WIMN	Lower	2000, 0.379, West
<a href="#">J53</a>	SITE 4 REMEDIAL ACTI	AIRPORT RD	MN WIMN	Lower	2054, 0.389, West
<a href="#">54</a>	NORTH BUSINESS DEVEL	ADDRESS UNKNOWN	MN WIMN	Lower	2055, 0.389, North
<a href="#">J55</a>	IRP SITE 4	FORMER 148TH FW ANG	MN WIMN	Lower	2156, 0.408, West
<a href="#">K56</a>	NORTHERN TOOL & EQUI	4969 MILLER TRUNK HW	MN ENF, MN WIMN	Lower	2160, 0.409, WSW
<a href="#">L57</a>	CURTIS OIL	4985 MILLER TRUNK HI	MN TIER 2, MN WIMN	Lower	2162, 0.409, WSW
<a href="#">L58</a>	CURTIS CONVENIENCE S	4991 MILLER TRUNK HI	MN LUST, MN UST, MN SRS, MN ENF, MN Financial...	Lower	2169, 0.411, WSW
<a href="#">L59</a>	CURTIS OIL & TIRE	4995 MILLER TRUNK HI	MN LAST, MN LUST, MN UST, MN SRS, FINDS, ECHO, MN...	Lower	2178, 0.412, WSW
<a href="#">L60</a>	FOOD N FUEL	4997 MILLER TRUNK HI	MN LUST, MN SRS, MN Financial Assurance, MN WIMN	Lower	2181, 0.413, WSW
<a href="#">L61</a>	FOOD AND FUEL	4997 MILLER TRUNK HI	MN LUST, MN SRS, MN Financial Assurance, MN WIMN	Lower	2181, 0.413, WSW
<a href="#">J62</a>	MN ARMY NATIONAL GUA	SEE LOCATION DESCRIP	MN WIMN	Lower	2210, 0.419, West
<a href="#">J63</a>	MN AIR NATIONAL GUAR	SEE LOCATION DESCRIP	MN SRS, MN Financial Assurance	Lower	2212, 0.419, West
<a href="#">64</a>	NRRI/UNIVERSITY OF M	3153 MILLER TRUNK HI	MN LUST, MN SRS, MN Financial Assurance, MN WIMN	Lower	2232, 0.423, West
<a href="#">K65</a>	SUGAR MAPLE CROSSING	4960 MILLER TRUNK HI	MN NPDES, MN WIMN	Lower	2262, 0.428, WSW
<a href="#">66</a>	BULLYAN TRAILER SALE	4956 MILLER TRUNK HI	MN AST, MN ENF, MN Financial Assurance, MN NPDES,...	Lower	2290, 0.434, SW
<a href="#">M67</a>	CIRRUS DESIGN CORP A	4950 MILLER TRUNK HW	MN WIMN	Lower	2371, 0.449, SW
<a href="#">M68</a>	CIRRUS DESIGN CORP/C	4950 MILLER TRUNK HW	MN NPDES, MN WIMN	Lower	2371, 0.449, SW
<a href="#">69</a>	EVERSMILES PEDIATRIC	4419 AIR BASE RD	MN WIMN	Lower	2388, 0.452, SSE
<a href="#">N70</a>	DULUTH INTERNATIONAL	SEE LOCATION DESCRIP	MN LUST, MN SRS, MN Financial Assurance	Lower	2451, 0.464, NNW
<a href="#">N71</a>	DULUTH INTERNATIONAL	SEE LOCATION DESCRIP	MN WIMN	Lower	2451, 0.464, NNW
<a href="#">O72</a>	NRRI- SAGE BUILDING-	5013 MILLER TRUNK HI	MN LAST, MN LUST, MN UST, MN AST, MN SRS, MN...	Lower	2471, 0.468, West
<a href="#">O73</a>	BILLMAN HOME CENTER	5010 MILLER TRUNK HW	MN MANIFEST, MN WIMN	Lower	2482, 0.470, WSW
<a href="#">O74</a>	BILLMAN CONSTRUCTION	5010 MILLER TRUNK HW	MN LUST, MN SRS, MN ENF, MN Financial Assurance,...	Lower	2482, 0.470, WSW
<a href="#">75</a>	KWIK TRIP #220 CARWA	4978 MILLER TRUNK HI	MN VIC, MN BROWNFIELDS, MN SRS, MN SPILLS, MN...	Lower	2577, 0.488, WSW
<a href="#">O76</a>	MILLER TRUNK AUTO IN	5014 MILLER TRUNK HI	MN AIRS, MN MANIFEST, MN WIMN	Lower	2580, 0.489, West
<a href="#">O77</a>	BULLYAN HOMES (SF)	5014 MILLER TRUNK HI	MN SHWS, MN SRS, MN SPILLS, MN Financial Assurance	Lower	2580, 0.489, West



MAPPED SITES SUMMARY

Target Property Address:  
 LACKLAND STREET  
 DULUTH, MN 55811

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">78</a>	UNITED RENTALS BRANC	4945 MILLER TRUNK HW	MN LUST, MN LAST, MN SRS, MN Financial Assurance,...	Lower	2636, 0.499, SSW
<a href="#">79</a>	SMALL ARMS RANGES		UXO	Lower	3459, 0.655, NNE
<a href="#">80</a>	LEAD CONTAMINATED SO		UXO	Lower	5173, 0.980, NNW

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### ***Lists of Federal NPL (Superfund) sites***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

### ***Lists of Federal Delisted NPL sites***

Delisted NPL..... National Priority List Deletions

### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY..... Federal Facility Site Information listing

### ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

### ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS..... Corrective Action Report

### ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

### ***Lists of Federal RCRA generators***

RCRA-SQG..... RCRA - Small Quantity Generators

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System  
US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROLS..... Institutional Controls Sites List

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

## EXECUTIVE SUMMARY

### ***Lists of state- and tribal (Superfund) equivalent sites***

MN PLP..... Permanent List of Priorities

### ***Lists of state and tribal landfills and solid waste disposal facilities***

MN SWF/LF..... Permitted Solid Waste Disposal Facilities

MN UNPERM LF..... Unpermitted Facilities

MN LCP..... Closed Landfills Priority List

### ***Lists of state and tribal leaking storage tanks***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***Lists of state and tribal registered storage tanks***

FEMA UST..... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

MN INST CONTROL..... Site Remediation Section Database

### ***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

MN SWRCY..... Recycling Facilities

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register

MN CDL..... Clandestine Drug Labs

MN DEL PLP..... Delisted Permanent List of Priorities

US CDL..... National Clandestine Laboratory Register

MN PFAS..... PFAS Contamination Site Location Listing

#### ***Local Land Records***

MN LIENS..... Environmental Liens

LIENS 2..... CERCLA Lien Information

## EXECUTIVE SUMMARY

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
MN AGSPILLS..... Department of Agriculture Spills  
MN SPILLS 90..... SPILLS 90 data from FirstSearch  
MN SPILLS 80..... SPILLS 80 data from FirstSearch

### **Other Ascertainable Records**

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
US FIN ASSUR..... Financial Assurance Information  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
ICIS..... Integrated Compliance Information System  
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
FUELS PROGRAM..... EPA Fuels Program Registered Listing  
MN AGVIC..... Agricultural Voluntary Investigation & Cleanup Listing  
MN BULK..... Bulk Facilities Database  
MN COAL ASH..... Coal Ash Disposal Site Listing  
MN DRYCLEANERS..... Registered Drycleaning Facilities  
MN HWS Permit..... Active TSD Facilities  
MN LEAD..... LEAD  
MN MDA LIS..... Licensing Information System Database Listing  
MINES MRDS..... Mineral Resources Data System

### **EDR HIGH RISK HISTORICAL RECORDS**

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants

## EXECUTIVE SUMMARY

EDR Hist Auto..... EDR Exclusive Historical Auto Stations  
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

MN RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List  
MN RGA LF..... Recovered Government Archive Solid Waste Facilities List  
MN RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 07/26/2022 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>US AFB DULUTH INTL A</i></b> Site ID: 0504011 EPA Id: MN7570024284	<b><i>STEBNER RD</i></b>	<b><i>S 1/8 - 1/4 (0.179 mi.)</i></b>	<b><i>G40</i></b>	<b><i>361</i></b>



## EXECUTIVE SUMMARY

### ***Lists of Federal RCRA generators***

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 06/20/2022 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CIRRUS DESIGN CORP A EPA ID:: MNS000304376	4940 AIRPORT RD	W 0 - 1/8 (0.012 mi.)	B7	51
<b><i>CIRRUS DESIGN CORPOR</i></b> EPA ID:: MN0000275115	<b><i>4515 TAYLOR CIRCLE</i></b>	<b><i>WNW 1/8 - 1/4 (0.181 mi.)</i></b>	<b><i>H46</i></b>	<b><i>392</i></b>

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 06/20/2022 has revealed that there are 4 RCRA-VSQG sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MINNESOTA POWER - HA EPA ID:: MNS000320328	4511 AIRPORT APPROAC	ENE 0 - 1/8 (0.017 mi.)	A10	60
<b><i>FEDEX DLH</i></b> EPA ID:: MNR000051375	<b><i>4510 AIRPORT APPROAC</i></b>	<b><i>E 0 - 1/8 (0.023 mi.)</i></b>	<b><i>A12</i></b>	<b><i>65</i></b>
<b><i>LAKE SUPERIOR HELICO</i></b> EPA ID:: MNS000302496	<b><i>4525 AIRPORT APPROAC</i></b>	<b><i>ENE 0 - 1/8 (0.029 mi.)</i></b>	<b><i>A16</i></b>	<b><i>134</i></b>
LAKE SUPERIOR COLLEG EPA ID:: MNS000320952	4960 AIRPORT RD	W 0 - 1/8 (0.066 mi.)	E29	307

### ***Lists of state- and tribal hazardous waste facilities***

MN SHWS: The Superfund Site Information Listing records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Minnesota Pollution Control's Superfund Permanent List of Priorities.

A review of the MN SHWS list, as provided by EDR, and dated 05/30/2022 has revealed that there are 2

## EXECUTIVE SUMMARY

MN SHWS sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DULUTH AIR FORCE BAS Facility Id: 26	SEE LOCATION DESCRIP	WNW 1/4 - 1/2 (0.318 mi.)	I49	548
<b>BULLYAN HOMES (SF)</b> Facility Id: 2	<b>5014 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.489 mi.)</b>	<b>O77</b>	<b>737</b>

### ***Lists of state and tribal leaking storage tanks***

MN LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Minnesota Pollution Control Agency's Leak Sites list.

A review of the MN LUST list, as provided by EDR, and dated 07/29/2022 has revealed that there are 17 MN LUST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>AVIS RENT A CAR</b> MNPCA ID: 218590 MNPCA ID: 222779 Closed Date: 06/29/1998 Closed Date: 08/27/1997 Site Id: LS0005937 Site Id: LS0010276	<b>4701 AIRPORT RD</b>	<b>E 0 - 1/8 (0.008 mi.)</b>	<b>A4</b>	<b>25</b>
<b>OLD MUNICIPAL HANGER</b> Closed Date: 09/13/2007 Site Id: LS0012924	<b>4525 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.029 mi.)</b>	<b>A13</b>	<b>92</b>
<b>DULUTH AIR TRAFFIC C</b> MNPCA ID: 222219 Closed Date: 07/21/1997 Site Id: LS0009696	<b>4525 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.029 mi.)</b>	<b>A15</b>	<b>102</b>
<b>BUREAU OF PRISONS/DE</b> MNPCA ID: 220068 MNPCA ID: 221548 Closed Date: 04/04/1995 Closed Date: 12/16/1996 Site Id: LS0007453 Site Id: LS0008998	<b>4464 RALSTON DR</b>	<b>WSW 0 - 1/8 (0.047 mi.)</b>	<b>C26</b>	<b>259</b>
<b>FEDERAL PRISON</b> MNPCA ID: 217125 Closed Date: 02/08/1994 Site Id: LS0004415	<b>6902 AIRPORT RD</b>	<b>S 0 - 1/8 (0.088 mi.)</b>	<b>32</b>	<b>312</b>
<b>AIRPORT MAINTENANCE</b> MNPCA ID: 216819 MNPCA ID: 219281 Closed Date: 09/27/1994 Closed Date: 09/23/1994 Closed Date: 03/15/1996 Site Id: LS0004092	<b>DULUTH INTERNATIONAL</b>	<b>WNW 1/8 - 1/4 (0.139 mi.)</b>	<b>34</b>	<b>322</b>

## EXECUTIVE SUMMARY

Site Id: LS0006647				
<b>DEFENSE REVITALIZATI</b>	<b>4997 AIRPORT RD</b>	<b>W 1/8 - 1/4 (0.171 mi.)</b>	<b>F36</b>	<b>342</b>
MNPCA ID: 222753				
Closed Date: 01/14/1998				
Site Id: LS0010249				
<b>DULUTH INTL AIRPORT</b>	<b>SEE LOCATION DESCRIP</b>	<b>NNW 1/4 - 1/2 (0.324 mi.)</b>	<b>51</b>	<b>550</b>
MNPCA ID: 222056				
Closed Date: 01/28/1999				
Site Id: LS0009527				
<b>CURTIS CONVENIENCE S</b>	<b>4991 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.411 mi.)</b>	<b>L58</b>	<b>574</b>
MNPCA ID: 223736				
Closed Date: 06/20/2019				
Closed Date: 09/14/1998				
Site Id: LS0020519				
Site Id: LS0011321				
<b>CURTIS OIL &amp; TIRE</b>	<b>4995 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.412 mi.)</b>	<b>L59</b>	<b>593</b>
Closed Date: 04/11/2011				
Site Id: LS0008660				
<b>FOOD N FUEL</b>	<b>4997 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.413 mi.)</b>	<b>L60</b>	<b>607</b>
MNPCA ID: 221296				
Closed Date: 02/07/2000				
Site Id: LS0008737				
<b>FOOD AND FUEL</b>	<b>4997 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.413 mi.)</b>	<b>L61</b>	<b>614</b>
MNPCA ID: 223397				
Closed Date: 08/06/1998				
Site Id: LS0010973				
<b>NRRI/UNIVERSITY OF M</b>	<b>3153 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.423 mi.)</b>	<b>64</b>	<b>624</b>
MNPCA ID: 215383				
Closed Date: 04/11/2000				
Site Id: LS0002584				
<b>DULUTH INTERNATIONAL</b>	<b>SEE LOCATION DESCRIP</b>	<b>NNW 1/4 - 1/2 (0.464 mi.)</b>	<b>N70</b>	<b>644</b>
MNPCA ID: 218826				
Closed Date: 03/03/1994				
Site Id: LS0006182				
<b>NRRI- SAGE BUILDING-</b>	<b>5013 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.468 mi.)</b>	<b>O72</b>	<b>651</b>
MNPCA ID: 60552293				
Closed Date: 11/22/2011				
Site Id: LS0018454				
<b>BILLMAN CONSTRUCTION</b>	<b>5010 MILLER TRUNK HW</b>	<b>WSW 1/4 - 1/2 (0.470 mi.)</b>	<b>O74</b>	<b>688</b>
MNPCA ID: 232998				
Closed Date: 10/07/2002				
Site Id: LS0014598				
<b>UNITED RENTALS BRANC</b>	<b>4945 MILLER TRUNK HW</b>	<b>SSW 1/4 - 1/2 (0.499 mi.)</b>	<b>78</b>	<b>741</b>
MNPCA ID: 53721315				
Closed Date: 11/08/2007				
Site Id: LS0017014				

## EXECUTIVE SUMMARY

MN LAST: A listing of leaking aboveground storage tanks.

A review of the MN LAST list, as provided by EDR, and dated 07/29/2022 has revealed that there are 6 MN LAST sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>DULUTH AIR TRAFFIC C</b> Closed Date: 12/11/1998 Closed Date: 03/02/2007 Site Id: LS0011496 Site Id: LS0012506	<b>4525 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.029 mi.)</b>	<b>A15</b>	<b>102</b>
<b>NORTH COUNTRY AVIATI</b> MN PCA ID: 340595 Closed Date: 09/24/2007 Site Id: LS0016301	<b>4535 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.042 mi.)</b>	<b>A22</b>	<b>161</b>
<b>BUREAU OF PRISONS/DE</b> Closed Date: 12/16/1996 Closed Date: 04/04/1995 Site Id: LS0008998 Site Id: LS0007453	<b>4464 RALSTON DR</b>	<b>WSW 0 - 1/8 (0.047 mi.)</b>	<b>C26</b>	<b>259</b>
<b>CURTIS OIL &amp; TIRE</b> MN PCA ID: 221222 Closed Date: 04/11/2011 Site Id: LS0008660	<b>4995 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.412 mi.)</b>	<b>L59</b>	<b>593</b>
<b>NRRI- SAGE BUILDING-</b> Closed Date: 11/22/2011 Site Id: LS0018454	<b>5013 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.468 mi.)</b>	<b>O72</b>	<b>651</b>
<b>UNITED RENTALS BRANC</b> Closed Date: 11/08/2007 Site Id: LS0017014	<b>4945 MILLER TRUNK HW</b>	<b>SSW 1/4 - 1/2 (0.499 mi.)</b>	<b>78</b>	<b>741</b>

### ***Lists of state and tribal registered storage tanks***

MN UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Minnesota Pollution Control's Underground Storage Tank File.

A review of the MN UST list, as provided by EDR, and dated 07/22/2022 has revealed that there are 2 MN UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AVIS RENT A CAR Program Interest Id: 201383	4701 AIRPORT RD	E 0 - 1/8 (0.008 mi.)	A3	22
NATIONAL WEATHER SER Program Interest Id: 194647	4525 AIRPORT APPROAC	ENE 0 - 1/8 (0.029 mi.)	A17	137

## EXECUTIVE SUMMARY

MN AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Minnesota Pollution Control's Aboveground Storage Tank File.

A review of the MN AST list, as provided by EDR, and dated 07/22/2022 has revealed that there are 5 MN AST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DULUTH TRUCK DRIVING Tank Status: Removed Program Interest Id: 210541	8222 STEBNER RD	0 - 1/8 (0.000 mi.)	1	8
FEDERAL AVIATION ADM Tank Status: Active Program Interest Id: 229727 Program Interest Id: 211945	4525 AIRPORT APPROAC	ENE 0 - 1/8 (0.029 mi.)	A14	96
MONACO AIR DULUTH Tank Status: Active	4535 AIRPORT APPROAC	ENE 0 - 1/8 (0.042 mi.)	A21	158
FEDERAL PRISON CAMP Tank Status: Active Program Interest Id: 194442	4464 RALSTON DR	WSW 0 - 1/8 (0.047 mi.)	C25	250
CIRRUS DESIGN CORP A Tank Status: Active Program Interest Id: 267373	4515 TAYLOR CIR	WNW 1/8 - 1/4 (0.181 mi.)	H45	390

### ***Lists of state and tribal voluntary cleanup sites***

MN VIC: This is the Minnesota Pollution Control Agency's Voluntary Investigation and Cleanup Program list.

A review of the MN VIC list, as provided by EDR, and dated 05/30/2022 has revealed that there are 4 MN VIC sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>DULUTH INTERNATIONAL</b> Facility Id: VP14730	<b>AIRPORT ROAD, SITE 1</b>	<b>WSW 0 - 1/8 (0.031 mi.)</b>	<b>C19</b>	<b>143</b>
<b>DULUTH INTERNATIONAL</b> Facility Id: VP14731	<b>SEE LOCATION DESCRIP</b>	<b>WSW 0 - 1/8 (0.044 mi.)</b>	<b>C24</b>	<b>227</b>
DULUTH INTERNATIONAL Facility Id: VP15150	AIRPORT ROAD	W 0 - 1/8 (0.065 mi.)	D28	302
<b>KWIK TRIP #220 CARWA</b> Facility Id: VP31160	<b>4978 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.488 mi.)</b>	<b>75</b>	<b>703</b>

### ***Lists of state and tribal brownfield sites***

MN BROWNFIELDS: Purchasing, selling, or developing property can present a special set of obstacles if the property is contaminated with chemicals. The Petroleum Brownfields Program is one of several programs within the Minnesota Pollution Control Agency (MPCA) designed to help people address these obstacles. The purpose of



## EXECUTIVE SUMMARY

the Petroleum Brownfields Program is to provide the technical assistance and liability assurance needed to expedite and facilitate the development, transfer, investigation and/or cleanup of property that is contaminated with petroleum.

A review of the MN BROWNFIELDS list, as provided by EDR, and dated 05/30/2022 has revealed that there are 4 MN BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>DULUTH INTERNATIONAL</b>	<b>AIRPORT ROAD, SITE 1</b>	<b>WSW 0 - 1/8 (0.031 mi.)</b>	<b>C19</b>	<b>143</b>
<b>DULUTH INTERNATIONAL</b>	<b>SEE LOCATION DESCRIP</b>	<b>WSW 0 - 1/8 (0.044 mi.)</b>	<b>C24</b>	<b>227</b>
<b>DULUTH INTERNATIONAL</b>	<b>AIRPORT ROAD</b>	<b>W 0 - 1/8 (0.065 mi.)</b>	<b>D27</b>	<b>297</b>
<b>KWIK TRIP #220 CARWA</b> Leak Num: 4555	<b>4978 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.488 mi.)</b>	<b>75</b>	<b>703</b>

### ADDITIONAL ENVIRONMENTAL RECORDS

#### **Local Lists of Hazardous waste / Contaminated Sites**

MN SRS: The database contains site information for sites monitored by the Site Remediation Section.

A review of the MN SRS list, as provided by EDR, and dated 05/30/2022 has revealed that there are 26 MN SRS sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>AVIS RENT A CAR</b> Facility Id: LS0010276 Facility Id: LS0005937	<b>4701 AIRPORT RD</b>	<b>E 0 - 1/8 (0.008 mi.)</b>	<b>A4</b>	<b>25</b>
<b>OLD MUNICIPAL HANGER</b> Facility Id: LS0012924	<b>4525 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.029 mi.)</b>	<b>A13</b>	<b>92</b>
<b>DULUTH AIR TRAFFIC C</b> Facility Id: LS0009696 Facility Id: LS0011496 Facility Id: LS0012506	<b>4525 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.029 mi.)</b>	<b>A15</b>	<b>102</b>
<b>DULUTH INTERNATIONAL</b> Facility Id: VP14730	<b>AIRPORT ROAD, SITE 1</b>	<b>WSW 0 - 1/8 (0.031 mi.)</b>	<b>C19</b>	<b>143</b>
<b>DULUTH AIRBASE OLD T</b> Facility Id: SA0004578	<b>4516 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.032 mi.)</b>	<b>A20</b>	<b>154</b>
<b>NORTH COUNTRY AVIATI</b> Facility Id: LS0016301	<b>4535 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.042 mi.)</b>	<b>A22</b>	<b>161</b>
<b>DULUTH INTERNATIONAL</b> Facility Id: VP14731	<b>SEE LOCATION DESCRIP</b>	<b>WSW 0 - 1/8 (0.044 mi.)</b>	<b>C24</b>	<b>227</b>
<b>BUREAU OF PRISONS/DE</b> Facility Id: LS0008998 Facility Id: LS0007453	<b>4464 RALSTON DR</b>	<b>WSW 0 - 1/8 (0.047 mi.)</b>	<b>C26</b>	<b>259</b>
<b>DULUTH INTERNATIONAL</b> Facility Id: VP15150	<b>AIRPORT ROAD</b>	<b>W 0 - 1/8 (0.065 mi.)</b>	<b>D27</b>	<b>297</b>
<b>FEDERAL PRISON</b>	<b>6902 AIRPORT RD</b>	<b>S 0 - 1/8 (0.088 mi.)</b>	<b>32</b>	<b>312</b>

## EXECUTIVE SUMMARY

Facility Id: LS0004415				
<b>AIRPORT MAINTENANCE</b>	<b>DULUTH INTERNATIONAL</b>	<b>WNW 1/8 - 1/4 (0.139 mi.)</b>	<b>34</b>	<b>322</b>
Facility Id: LS0006647				
Facility Id: LS0004092				
<b>DEFENSE REVITILIZATI</b>	<b>4997 AIRPORT RD</b>	<b>W 1/8 - 1/4 (0.171 mi.)</b>	<b>F36</b>	<b>342</b>
Facility Id: LS0010249				
<b>DULUTH AIR FORCE BAS</b>	<b>SEE LOCATION DESCRIP</b>	<b>WNW 1/4 - 1/2 (0.318 mi.)</b>	<b>I50</b>	<b>549</b>
Facility Id: SR0000368				
<b>DULUTH INTL AIRPORT</b>	<b>SEE LOCATION DESCRIP</b>	<b>NNW 1/4 - 1/2 (0.324 mi.)</b>	<b>51</b>	<b>550</b>
Facility Id: LS0009527				
<b>CURTIS CONVENIENCE S</b>	<b>4991 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.411 mi.)</b>	<b>L58</b>	<b>574</b>
Facility Id: LS0011321				
Facility Id: SA0000632				
Facility Id: LS0020519				
<b>CURTIS OIL &amp; TIRE</b>	<b>4995 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.412 mi.)</b>	<b>L59</b>	<b>593</b>
Facility Id: LS0008660				
<b>FOOD N FUEL</b>	<b>4997 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.413 mi.)</b>	<b>L60</b>	<b>607</b>
Facility Id: LS0008737				
<b>FOOD AND FUEL</b>	<b>4997 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.413 mi.)</b>	<b>L61</b>	<b>614</b>
Facility Id: LS0010973				
<b>MN AIR NATIONAL GUAR</b>	<b>SEE LOCATION DESCRIP</b>	<b>W 1/4 - 1/2 (0.419 mi.)</b>	<b>J63</b>	<b>621</b>
Facility Id: LS0013038				
<b>NRRI/UNIVERSITY OF M</b>	<b>3153 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.423 mi.)</b>	<b>64</b>	<b>624</b>
Facility Id: LS0002584				
<b>DULUTH INTERNATIONAL</b>	<b>SEE LOCATION DESCRIP</b>	<b>NNW 1/4 - 1/2 (0.464 mi.)</b>	<b>N70</b>	<b>644</b>
Facility Id: LS0006182				
<b>NRRI- SAGE BUILDING-</b>	<b>5013 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.468 mi.)</b>	<b>O72</b>	<b>651</b>
Facility Id: LS0018454				
<b>BILLMAN CONSTRUCTION</b>	<b>5010 MILLER TRUNK HW</b>	<b>WSW 1/4 - 1/2 (0.470 mi.)</b>	<b>O74</b>	<b>688</b>
Facility Id: LS0014598				
<b>KWIK TRIP #220 CARWA</b>	<b>4978 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.488 mi.)</b>	<b>75</b>	<b>703</b>
Facility Id: VP31160				
Facility Id: BF0000272				
Facility Id: PB4555				
<b>BULLYAN HOMES (SF)</b>	<b>5014 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.489 mi.)</b>	<b>O77</b>	<b>737</b>
Facility Id: SR0000310				
Facility Id: SA0000116				
<b>UNITED RENTALS BRANC</b>	<b>4945 MILLER TRUNK HW</b>	<b>SSW 1/4 - 1/2 (0.499 mi.)</b>	<b>78</b>	<b>741</b>
Facility Id: LS0017014				

### Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/20/2022 has revealed that

## EXECUTIVE SUMMARY

there are 6 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NORTHSTAR MACHINE &amp;</b> EPA ID:: MNR000081794	<b>4845 LACKLAND ST</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>2</b>	<b>18</b>
<b>NORTH COUNTRY AVIATI</b> EPA ID:: MND151036019	<b>4535 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.042 mi.)</b>	<b>A22</b>	<b>161</b>
DULUTH TRUCK DRIVING EPA ID:: MND981793763	8222 STEBNER RD	SSE 0 - 1/8 (0.104 mi.)	33	320
<b>PLATING SPECIALTIES</b> EPA ID:: MND099789802	<b>4505 TAYLOR CIR</b>	<b>W 1/8 - 1/4 (0.177 mi.)</b>	<b>F38</b>	<b>350</b>
<b>US AFB DULUTH INTL A</b> EPA ID:: MN7570024284	<b>STEBNER RD</b>	<b>S 1/8 - 1/4 (0.179 mi.)</b>	<b>G40</b>	<b>361</b>
NAVY OPERATIONAL SUP EPA ID:: MNS000121459	5019 AIRPORT RD	W 1/8 - 1/4 (0.181 mi.)	F41	365

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 08/11/2022 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DULUTH INTERNATIONAL		N 1/8 - 1/4 (0.177 mi.)	37	349

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 06/07/2021 has revealed that there is 1 DOD site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DULUTH IAP		NE 1/2 - 1 (0.760 mi.)	0	8

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 08/03/2022 has revealed that there is 1 FINDS site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NORTHSTAR MACHINE &amp;</b>	<b>4845 LACKLAND ST</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>2</b>	<b>18</b>

## EXECUTIVE SUMMARY

Registry ID:: 110070322049

Registry ID:: 110003931176

Registry ID:: 110070347467

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 06/25/2022 has revealed that there is 1 ECHO site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NORTHSTAR MACHINE &amp;</b> Registry ID: 110003931176	<b>4845 LACKLAND ST</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>2</b>	<b>18</b>

UXO: A listing of unexploded ordnance site locations

A review of the UXO list, as provided by EDR, and dated 12/31/2020 has revealed that there are 2 UXO sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SMALL ARMS RANGES		NNE 1/2 - 1 (0.655 mi.)	79	763
LEAD CONTAMINATED SO		NNW 1/2 - 1 (0.980 mi.)	80	764

MN MANIFEST: Hazardous waste manifest data.

A review of the MN MANIFEST list, as provided by EDR, and dated 06/30/2016 has revealed that there are 4 MN MANIFEST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>FEDEX DLH</b>	<b>4510 AIRPORT APPROAC</b>	<b>E 0 - 1/8 (0.023 mi.)</b>	<b>A12</b>	<b>65</b>
<b>MONACO AIR DULUTH</b>	<b>4535 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.042 mi.)</b>	<b>A23</b>	<b>188</b>
<b>BUREAU OF PRISONS/DE</b>	<b>4464 RALSTON DR</b>	<b>WSW 0 - 1/8 (0.047 mi.)</b>	<b>C26</b>	<b>259</b>
CIRRUS DESIGN CORP A	4515 TAYLOR CIR	WNW 1/8 - 1/4 (0.181 mi.)	H44	372

WI MANIFEST: Hazardous waste manifest information.

A review of the WI MANIFEST list, as provided by EDR, and dated 05/31/2018 has revealed that there is 1 WI MANIFEST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CIRRUS DESIGN CORPOR</b> ACT Status: A FID: 0 EPA ID: MN0000275115	<b>4515 TAYLOR CIRCLE</b>	<b>WNW 1/8 - 1/4 (0.181 mi.)</b>	<b>H46</b>	<b>392</b>

## EXECUTIVE SUMMARY

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there is 1 NY MANIFEST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>US AFB DULUTH INTL A</b> EPA ID: MN7570024284	<b>STEBNER RD</b>	<b>S 1/8 - 1/4 (0.179 mi.)</b>	<b>G40</b>	<b>361</b>

MN LS: The List of Sites includes: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP), National Priorities List (NPL), Permanent List of Priorities (PLP), Sites delisted from the Permanent List of Priorities (DPLP), Hazardous Waste Permit Unit Project Facilities (HW PERM), List of Permitted Solid Waste Facilities (SW PERM), 1980 Metropolitan Area Waste Disposal Site Inventory, 1980 Statewide Outstate Dump Inventory (ODI), Voluntary and Investigation Program (VIC), and Closed Landfill Sites Undergoing Cleanup (LCP). The List of Sites comes from Minnesota Pollution Control

A review of the MN LS list, as provided by EDR, and dated 04/22/2009 has revealed that there are 2 MN LS sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
DULUTH INTERNATIONAL MPCA Id: VP14731 Link ID: 5546	AIRPORT ROAD, SITE 1	WSW 0 - 1/8 (0.031 mi.)	C18	143
<b>DULUTH INTERNATIONAL</b> MPCA Id: VP15150 Link ID: 5585	<b>AIRPORT ROAD</b>	<b>W 0 - 1/8 (0.068 mi.)</b>	<b>D31</b>	<b>310</b>

MN VAPOR: A listing of sites with potential or identified vapor risk. Vapor intrusion occurs when chemical vapors migrate from a source of contamination through the soil into the basements or foundations of buildings. These chemical vapors can sometimes pose risks to human health.

A review of the MN VAPOR list, as provided by EDR, and dated 08/11/2022 has revealed that there are 5 MN VAPOR sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>DULUTH AIRBASE OLD T</b>	<b>4516 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.032 mi.)</b>	<b>A20</b>	<b>154</b>
<b>DULUTH INTERNATIONAL</b>	<b>SEE LOCATION DESCRIP</b>	<b>WSW 0 - 1/8 (0.044 mi.)</b>	<b>C24</b>	<b>227</b>
<b>AIRPORT MAINTENANCE</b>	<b>DULUTH INTERNATIONAL</b>	<b>WNW 1/8 - 1/4 (0.139 mi.)</b>	<b>34</b>	<b>322</b>
<b>DULUTH AIR FORCE BAS</b>	<b>SEE LOCATION DESCRIP</b>	<b>WNW 1/4 - 1/2 (0.318 mi.)</b>	<b>I50</b>	<b>549</b>
<b>CURTIS CONVENIENCE S</b>	<b>4991 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.411 mi.)</b>	<b>L58</b>	<b>574</b>

MN WIMN: Since 2003, the PCA's "What's in My Neighborhood?" database provides information about air quality, hazardous waste, remediation, solid waste, tanks and leaks, and water quality around Minnesota.

A review of the MN WIMN list, as provided by EDR, and dated 07/05/2022 has revealed that there are 48 MN WIMN sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>NORTHSTAR MACHINE &amp;</b>	<b>4845 LACKLAND ST</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>2</b>	<b>18</b>

## EXECUTIVE SUMMARY

Status: N				
<b>AVIS RENT A CAR</b>	<b>4701 AIRPORT RD</b>	<b>E 0 - 1/8 (0.008 mi.)</b>	<b>A4</b>	<b>25</b>
Status: N				
Status: Y				
<b>CIRRUS COMPLETION CE</b>	<b>4926 AIRPORT RD</b>	<b>W 0 - 1/8 (0.009 mi.)</b>	<b>B5</b>	<b>47</b>
Status: Y				
<b>CIRRUS DESIGN CORP A</b>	<b>4940 AIRPORT RD # 50</b>	<b>W 0 - 1/8 (0.012 mi.)</b>	<b>B6</b>	<b>49</b>
Status: Y				
CIRRUS AIRCRAFT COMP		W 0 - 1/8 (0.015 mi.)	C8	58
Status: Y				
MINNESOTA POWER - HA	4511 AIRPORT APPROAC	ENE 0 - 1/8 (0.017 mi.)	A9	59
Status: Y				
<b>CIRRUS DESIGN CORP A</b>	<b>4961 AIRPORT RD</b>	<b>W 0 - 1/8 (0.020 mi.)</b>	<b>11</b>	<b>63</b>
Status: Y				
<b>FEDEX DLH</b>	<b>4510 AIRPORT APPROAC</b>	<b>E 0 - 1/8 (0.023 mi.)</b>	<b>A12</b>	<b>65</b>
Status: Y				
<b>OLD MUNICIPAL HANGER</b>	<b>4525 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.029 mi.)</b>	<b>A13</b>	<b>92</b>
Status: Y				
<b>DULUTH AIR TRAFFIC C</b>	<b>4525 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.029 mi.)</b>	<b>A15</b>	<b>102</b>
Status: N				
<b>DULUTH AIRBASE OLD T</b>	<b>4516 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.032 mi.)</b>	<b>A20</b>	<b>154</b>
Status: Y				
<b>MONACO AIR DULUTH</b>	<b>4535 AIRPORT APPROAC</b>	<b>ENE 0 - 1/8 (0.042 mi.)</b>	<b>A23</b>	<b>188</b>
Status: Y				
Status: N				
<b>BUREAU OF PRISONS/DE</b>	<b>4464 RALSTON DR</b>	<b>WSW 0 - 1/8 (0.047 mi.)</b>	<b>C26</b>	<b>259</b>
Status: N				
Status: Y				
LAKE SUPERIOR COLLEG	4960 AIRPORT RD	W 0 - 1/8 (0.066 mi.)	E30	309
Status: Y				
<b>DULUTH INTERNATIONAL</b>	<b>AIRPORT ROAD</b>	<b>W 0 - 1/8 (0.068 mi.)</b>	<b>D31</b>	<b>310</b>
Status: Y				
<b>FEDERAL PRISON</b>	<b>6902 AIRPORT RD</b>	<b>S 0 - 1/8 (0.088 mi.)</b>	<b>32</b>	<b>312</b>
Status: Y				
<b>FORMER MANG TANK FAR</b>	<b>4977 AIRPORT RD</b>	<b>W 1/8 - 1/4 (0.148 mi.)</b>	<b>F35</b>	<b>339</b>
Status: Y				
<b>DEFENSE REVITILIZATI</b>	<b>4997 AIRPORT RD</b>	<b>W 1/8 - 1/4 (0.171 mi.)</b>	<b>F36</b>	<b>342</b>
Status: Y				
<b>PLATING SPECIALTIES</b>	<b>4505 TAYLOR CIR</b>	<b>W 1/8 - 1/4 (0.177 mi.)</b>	<b>F39</b>	<b>358</b>
Status: N				
NAVY OPERATIONAL SUP	5019 AIRPORT RD	W 1/8 - 1/4 (0.181 mi.)	F42	367
Status: Y				
<b>CIRRUS DESIGN CORP/</b>	<b>4515 TAYLOR CIR</b>	<b>WNW 1/8 - 1/4 (0.181 mi.)</b>	<b>H43</b>	<b>368</b>
Status: N				
<b>CIRRUS DESIGN CORP A</b>	<b>4515 TAYLOR CIR</b>	<b>WNW 1/8 - 1/4 (0.181 mi.)</b>	<b>H47</b>	<b>538</b>
Status: Y				
<b>REPAIR PMEL ASPHALT</b>	<b>4437 AIRPORT APPROAC</b>	<b>S 1/8 - 1/4 (0.184 mi.)</b>	<b>G48</b>	<b>546</b>



## EXECUTIVE SUMMARY

Status: Y				
<b>DULUTH INTL AIRPORT</b>	<b>SEE LOCATION DESCRIP</b>	<b>NNW 1/4 - 1/2 (0.324 mi.)</b>	<b>51</b>	<b>550</b>
Status: Y				
STATE HQ 1ST BN 94TH	5015 AIR PARK BLVD	W 1/4 - 1/2 (0.379 mi.)	52	556
Status: N				
SITE 4 REMEDIAL ACTI	AIRPORT RD	W 1/4 - 1/2 (0.389 mi.)	J53	557
Status: Y				
NORTH BUSINESS DEVEL	ADDRESS UNKNOWN	N 1/4 - 1/2 (0.389 mi.)	54	558
Status: N				
IRP SITE 4	FORMER 148TH FW ANG	W 1/4 - 1/2 (0.408 mi.)	J55	560
Status: Y				
<b>NORTHERN TOOL &amp; EQUI</b>	<b>4969 MILLER TRUNK HW</b>	<b>WSW 1/4 - 1/2 (0.409 mi.)</b>	<b>K56</b>	<b>561</b>
Status: Y				
<b>CURTIS OIL</b>	<b>4985 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.409 mi.)</b>	<b>L57</b>	<b>563</b>
Status: N				
<b>CURTIS CONVENIENCE S</b>	<b>4991 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.411 mi.)</b>	<b>L58</b>	<b>574</b>
Status: Y				
<b>CURTIS OIL &amp; TIRE</b>	<b>4995 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.412 mi.)</b>	<b>L59</b>	<b>593</b>
Status: Y				
<b>FOOD N FUEL</b>	<b>4997 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.413 mi.)</b>	<b>L60</b>	<b>607</b>
Status: Y				
<b>FOOD AND FUEL</b>	<b>4997 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.413 mi.)</b>	<b>L61</b>	<b>614</b>
Status: Y				
MN ARMY NATIONAL GUA	SEE LOCATION DESCRIP	W 1/4 - 1/2 (0.419 mi.)	J62	620
Status: Y				
<b>NRRI/UNIVERSITY OF M</b>	<b>3153 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.423 mi.)</b>	<b>64</b>	<b>624</b>
Status: Y				
<b>SUGAR MAPLE CROSSING</b>	<b>4960 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.428 mi.)</b>	<b>K65</b>	<b>630</b>
Status: Y				
<b>BULLYAN TRAILER SALE</b>	<b>4956 MILLER TRUNK HI</b>	<b>SW 1/4 - 1/2 (0.434 mi.)</b>	<b>66</b>	<b>632</b>
Status: Y				
CIRRUS DESIGN CORP A	4950 MILLER TRUNK HW	SW 1/4 - 1/2 (0.449 mi.)	M67	640
Status: Y				
<b>CIRRUS DESIGN CORP/C</b>	<b>4950 MILLER TRUNK HW</b>	<b>SW 1/4 - 1/2 (0.449 mi.)</b>	<b>M68</b>	<b>641</b>
Status: Y				
EVERSMILES PEDIATRIC	4419 AIR BASE RD	SSE 1/4 - 1/2 (0.452 mi.)	69	643
Status: Y				
DULUTH INTERNATIONAL	SEE LOCATION DESCRIP	NNW 1/4 - 1/2 (0.464 mi.)	N71	649
Status: Y				
<b>NRRI- SAGE BUILDING-</b>	<b>5013 MILLER TRUNK HI</b>	<b>W 1/4 - 1/2 (0.468 mi.)</b>	<b>O72</b>	<b>651</b>
Status: Y				
<b>BILLMAN HOME CENTER</b>	<b>5010 MILLER TRUNK HW</b>	<b>WSW 1/4 - 1/2 (0.470 mi.)</b>	<b>O73</b>	<b>685</b>
Status: N				
<b>BILLMAN CONSTRUCTION</b>	<b>5010 MILLER TRUNK HW</b>	<b>WSW 1/4 - 1/2 (0.470 mi.)</b>	<b>O74</b>	<b>688</b>
Status: Y				
<b>KWIK TRIP #220 CARWA</b>	<b>4978 MILLER TRUNK HI</b>	<b>WSW 1/4 - 1/2 (0.488 mi.)</b>	<b>75</b>	<b>703</b>

## EXECUTIVE SUMMARY

Status: Y

**MILLER TRUNK AUTO IN**

**5014 MILLER TRUNK HI**

**W 1/4 - 1/2 (0.489 mi.)**

**076**

**722**

Status: Y

**UNITED RENTALS BRANC**

**4945 MILLER TRUNK HW**

**SSW 1/4 - 1/2 (0.499 mi.)**

**78**

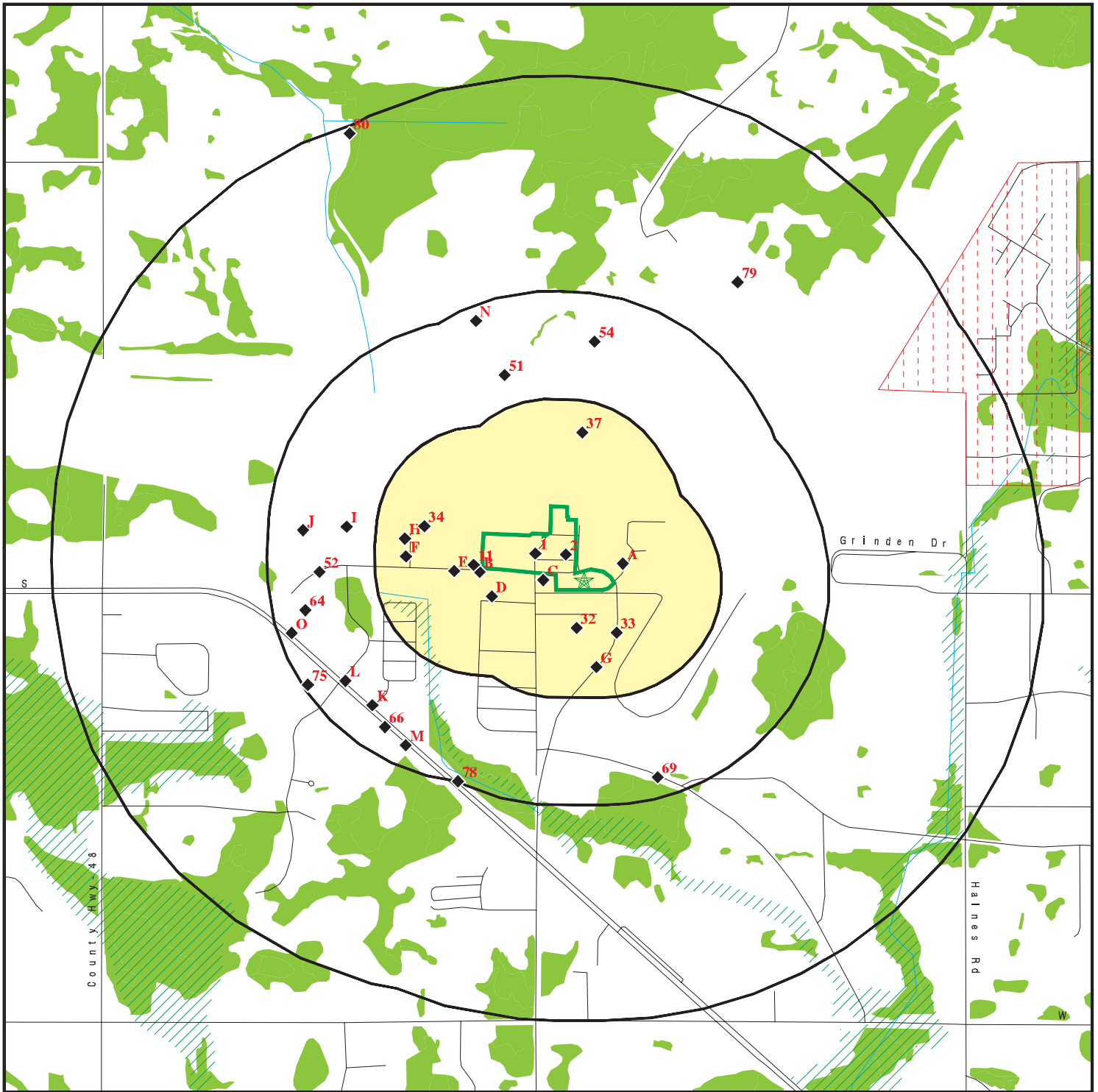
**741**












Status: Y

## EXECUTIVE SUMMARY

There were no unmapped sites in this report.

# OVERVIEW MAP - 7172732.2S



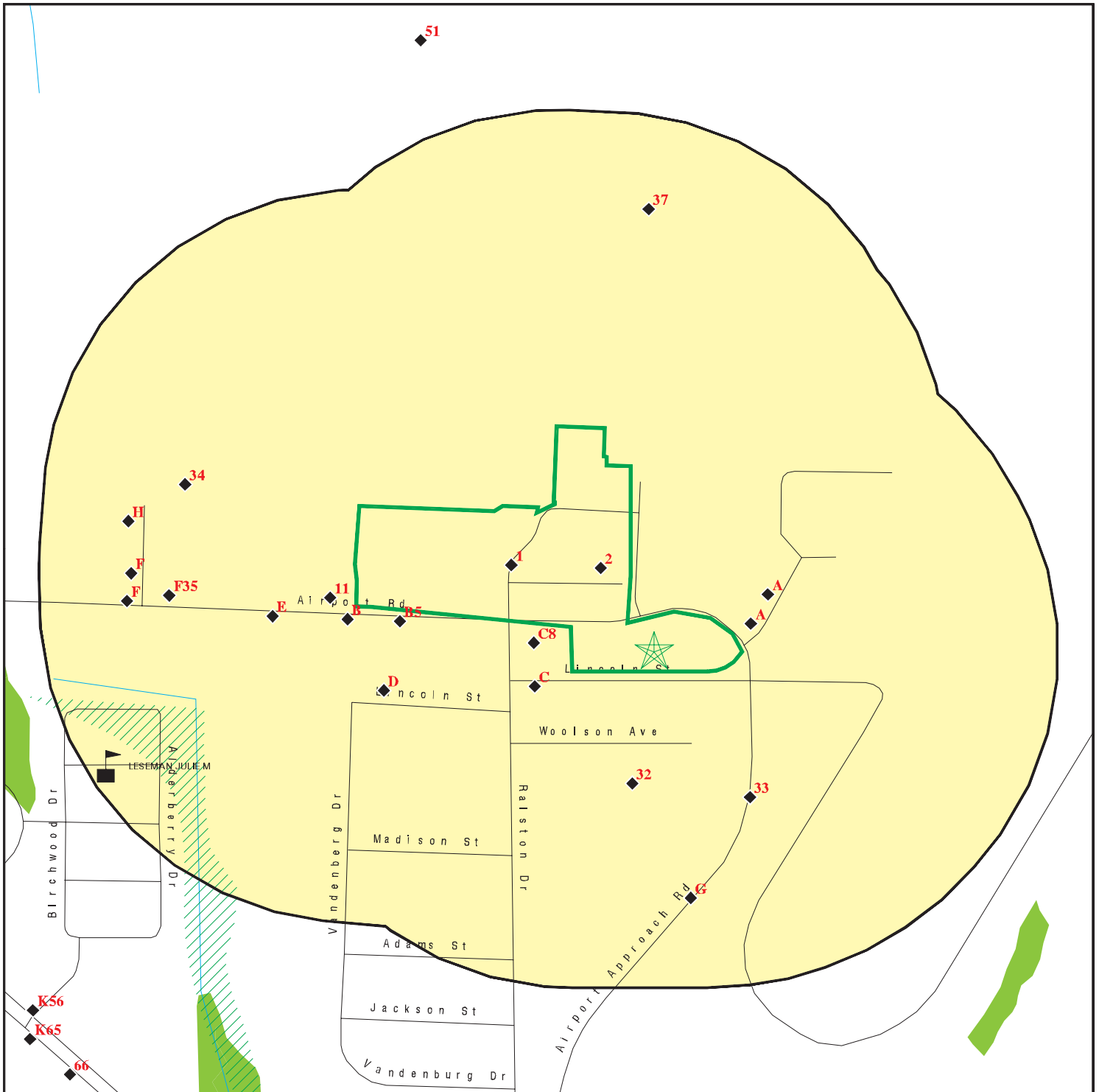
-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands








This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.






SITE NAME: DLH ATCT  
 ADDRESS: Lackland Street  
 Duluth MN 55811  
 LAT/LONG: 46.836905 / 92.193519

CLIENT: Booz, Allen & Hamilton (FAA)  
 CONTACT: Scott Bolch  
 INQUIRY #: 7172732.2s  
 DATE: November 08, 2022 2:15 pm

# DETAIL MAP - 7172732.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: DLH ATCT  
 ADDRESS: Lackland Street  
 Duluth MN 55811  
 LAT/LONG: 46.836905 / 92.193519

CLIENT: Booz, Allen & Hamilton (FAA)  
 CONTACT: Scott Bolch  
 INQUIRY #: 7172732.2s  
 DATE: November 08, 2022 2:16 pm

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b><u>STANDARD ENVIRONMENTAL RECORDS</u></b>								
<b><i>Lists of Federal NPL (Superfund) sites</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal Delisted NPL sites</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	1	0	NR	NR	1
<b><i>Lists of Federal CERCLA sites with NFRAP</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA facilities undergoing Corrective Action</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal RCRA TSD facilities</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA generators</i></b>								
RCRA-LQG	0.250		1	1	NR	NR	NR	2
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		4	0	NR	NR	NR	4
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	0.001		0	NR	NR	NR	NR	0
<b><i>Lists of state- and tribal (Superfund) equivalent sites</i></b>								
MN PLP	1.000		0	0	0	0	NR	0
<b><i>Lists of state- and tribal hazardous waste facilities</i></b>								
MN SHWS	1.000		0	0	2	0	NR	2
<b><i>Lists of state and tribal landfills and solid waste disposal facilities</i></b>								
MN SWF/LF	0.500		0	0	0	NR	NR	0



## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MN UNPERM LF	0.500		0	0	0	NR	NR	0
MN LCP	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal leaking storage tanks</i></b>								
MN LUST	0.500		5	2	10	NR	NR	17
MN LAST	0.500		3	0	3	NR	NR	6
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal registered storage tanks</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
MN UST	0.250		2	0	NR	NR	NR	2
MN AST	0.250		4	1	NR	NR	NR	5
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b><i>State and tribal institutional control / engineering control registries</i></b>								
MN INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal voluntary cleanup sites</i></b>								
MN VIC	0.500		3	0	1	NR	NR	4
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal brownfield sites</i></b>								
MN BROWNFIELDS	0.500		3	0	1	NR	NR	4
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
MN SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
MN SRS	0.500		10	2	14	NR	NR	26
MN CDL	0.001		0	NR	NR	NR	NR	0
MN DEL PLP	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
MN PFAS	0.500		0	0	0	NR	NR	0
<b><i>Local Land Records</i></b>								
MN LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>Records of Emergency Release Reports</b>								
HMIRS	0.001		0	NR	NR	NR	NR	0
MN SPILLS	0.001		0	NR	NR	NR	NR	0
MN AGSPILLS	0.001		0	NR	NR	NR	NR	0
MN SPILLS 90	0.001		0	NR	NR	NR	NR	0
MN SPILLS 80	0.001		0	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		3	3	NR	NR	NR	6
FUDS	1.000		0	1	0	0	NR	1
DOD	1.000		0	0	0	1	NR	1
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		1	NR	NR	NR	NR	1
ECHO	0.001		1	NR	NR	NR	NR	1
UXO	1.000		0	0	0	2	NR	2
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
MN AGVIC	0.500		0	0	0	NR	NR	0
MN AIRS	0.001		0	NR	NR	NR	NR	0
MN ASBESTOS	0.001		0	NR	NR	NR	NR	0
MN BULK	0.250		0	0	NR	NR	NR	0
MN COAL ASH	0.500		0	0	0	NR	NR	0



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Database(s)  
 EDR ID Number  
 EPA ID Number

<b>DOD</b>	<b>DULUTH IAP</b>	<b>DOD</b>	<b>CUSA400086</b>
<b>Region</b>	<b>, MN</b>		<b>N/A</b>
<b>NE</b>			
<b>1/2-1</b>			
<b>4011 ft.</b>			

DOD:  
 Site Name: DULUTH IAP  
 DOD Component: AF Guard  
 Joint Base: N/A  
 Operating Status: ACT (Active): Site has an on-going operational/support mission (s).

1	<b>DULUTH TRUCK DRIVING SCHOOL</b>	<b>MN AST</b>	<b>A100283154</b>
	<b>8222 STEBNER RD</b>		<b>N/A</b>
	<b>DULUTH, MN 55811</b>		
<b>&lt; 1/8</b>			
<b>1 ft.</b>			

**Relative:**  
**Lower**  
**Actual:**  
**1425 ft.**

AST:

Name:	DULUTH TRUCK DRIVING SCHOOL
Address:	8222 STEBNER RD
City,State,Zip:	DULUTH, MN 55811
AI ID:	27682
Tank Site ID:	TS0054274
Item ID:	27682-EQUI0000000001
SI Type:	Aboveground Storage Tank
SI Design:	100A
SI Description:	20,000 gal/Aviation Gas/Removed
Substance:	Aviation Gas
Compartment Number:	1
Wall Type:	Single
Overfill Prevention System:	AST None
Install Date:	1977-01-01 00:00:00
Status Change Date:	2008-09-24 00:00:00
Material:	Carbon steel
Tank Status:	Removed
Tanks Contractor:	Not reported
Capacity Gallon:	20000
Longitude:	Not reported
Latitude:	Not reported
Coord Collection Method:	Not reported
Owner Name:	North Country Aviation
Owner Address:	Duluth International Airport
Owner City:	Duluth
Owner State:	MN
Owner Zip:	55811
Tanks URL:	<a href="https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0054274">https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0054274</a>

AST Prior to 08/2016:

Program Interest ID:	210541
Facility Addr 2:	Not reported
Address ID:	32543
MPCA Tank Number:	100B
Above/Under Ground:	1
Piping Cathodic Protection:	Not reported
Tank Cathodic Protection:	Not reported
Substance:	4
Client Tank Number:	100B
AST Base Material:	5
Piping Material:	1
Piping Material Desc:	STEEL/IRON

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 9  
Tank Dispenser Code: Not reported  
Tank Status Code: 5  
Tank Capacity: 15000  
Tank Registration Date: 05/07/1990 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:42  
Date Last Updated: 09/24/2008 14:11:06  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Not reported  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 54274

Program Interest ID: 210541  
Facility Addr 2: Not reported  
Address ID: 32543  
MPCA Tank Number: 100C  
Above/Under Ground: 1  
Piping Cathodic Protection: Not reported  
Tank Cathodic Protection: Not reported  
Substance: 14  
Client Tank Number: 100C  
AST Base Material: 5  
Piping Material: 1  
Piping Material Desc: STEEL/IRON  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 9  
Tank Dispenser Code: Not reported  
Tank Status Code: 5  
Tank Capacity: 15000  
Tank Registration Date: 05/07/1990 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:42  
Date Last Updated: 09/24/2008 14:11:06  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Not reported  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 54274

Program Interest ID: 210541

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Facility Addr 2: Not reported  
Address ID: 32543  
MPCA Tank Number: 100D  
Above/Under Ground: 1  
Piping Cathodic Protection: Not reported  
Tank Cathodic Protection: Not reported  
Substance: 22  
Client Tank Number: 100D  
AST Base Material: 5  
Piping Material: 1  
Piping Material Desc: STEEL/IRON  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 9  
Tank Dispenser Code: Not reported  
Tank Status Code: 5  
Tank Capacity: 25000  
Tank Registration Date: 05/07/1990 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:42  
Date Last Updated: 09/24/2008 14:11:06  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Not reported  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 54274

Program Interest ID: 210541  
Facility Addr 2: Not reported  
Address ID: 32543  
MPCA Tank Number: 100E  
Above/Under Ground: 1  
Piping Cathodic Protection: Not reported  
Tank Cathodic Protection: Not reported  
Substance: 14  
Client Tank Number: 100E  
AST Base Material: 5  
Piping Material: 1  
Piping Material Desc: STEEL/IRON  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 9  
Tank Dispenser Code: Not reported  
Tank Status Code: 5  
Tank Capacity: 12500  
Tank Registration Date: 05/07/1990 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:42  
Date Last Updated: 09/24/2008 14:11:06  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Not reported  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 54274

Program Interest ID: 210541  
Facility Addr 2: Not reported  
Address ID: 32543  
MPCA Tank Number: 100A  
Above/Under Ground: 1  
Piping Cathodic Protection: Not reported  
Tank Cathodic Protection: Not reported  
Substance: 4  
Client Tank Number: 100A  
AST Base Material: 5  
Piping Material: 1  
Piping Material Desc: STEEL/IRON  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 9  
Tank Dispenser Code: Not reported  
Tank Status Code: 5  
Tank Capacity: 20000  
Tank Registration Date: 05/07/1990 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:42  
Date Last Updated: 09/24/2008 14:11:06  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Not reported  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 54274

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: JBRANDO  
Program Id: 210541  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Not reported  
TMSP Added: 04/10/2011 18:06:11

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Date Last Updated: 04/10/2011 18:06:11  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 19.12  
Longitude Degree: -92  
Longitude Minute: 13  
Longitude Second: 4.89  
Staff Id Who Did The Last Update: MAPT\_NC  
Program Id: 210541  
Latlong ID: 34341  
Collection Date: 04/15/2010 17:50:53  
LatLong Description: Not reported  
TMSP Added: 08/28/2000 10:31:21  
Date Last Updated: 04/15/2010 19:11:25  
Coord Source Type: 2  
Org Name Source: MPCA

**Tab site:**

Facility Code: 37  
Staff Id Who Did The Last Update: SYS  
Program Interest Id: 210541  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: Not reported  
AST Registration Date: 05/07/1990 00:00:00  
Date Added: 04/26/1993 13:43:08  
Date Last Updated: 05/23/2003 09:21:04  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

**Tank A:**

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 100B  
Above Or Underground: 1  
Tank Action ID: 828461  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1974 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:27  
Date Last Updated: 05/04/2002 08:51:17

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 100C  
Above Or Underground: 1  
Tank Action ID: 828462  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Action Date: 01/01/1974 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:27  
Date Last Updated: 05/04/2002 08:51:17

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 100D  
Above Or Underground: 1  
Tank Action ID: 828463  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 10/01/1987 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:27  
Date Last Updated: 05/04/2002 08:51:17

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 100E  
Above Or Underground: 1  
Tank Action ID: 828464  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 10/01/1987 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:27  
Date Last Updated: 05/04/2002 08:51:17

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 100D  
Above Or Underground: 1  
Tank Action ID: 880523  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: Not reported  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 07/10/2003 15:38:21  
Date Last Updated: 07/10/2003 15:38:21

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 100A  
Above Or Underground: 1  
Tank Action ID: 828314  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1977 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:37  
Date Last Updated: 05/04/2002 08:51:17

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 100A  
Above Or Underground: 1  
Tank Action ID: 877471  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 07/16/2002 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 03/13/2003 14:19:09  
Date Last Updated: 03/13/2003 14:19:09

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 100B  
Above Or Underground: 1  
Tank Action ID: 877472  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 07/16/2002 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 03/13/2003 14:19:25  
Date Last Updated: 03/13/2003 14:19:25

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 100C  
Above Or Underground: 1  
Tank Action ID: 877473  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 07/16/2002 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 03/13/2003 14:19:46  
Date Last Updated: 03/13/2003 14:19:46

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 100E  
Above Or Underground: 1  
Tank Action ID: 877474  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 07/16/2002 00:00:00  
Action Date Unknown: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 03/13/2003 14:20:30  
Date Last Updated: 03/13/2003 14:20:30

Tank C:

MPCA Tank Number: 100B  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 4  
Tank Stored Product Desc: AVIATION GAS  
Compartment Cap: 15000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:58  
Date Last Updated: 05/04/2002 08:51:17

MPCA Tank Number: 100C  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 14  
Tank Stored Product Desc: GASOLINE  
Compartment Cap: 15000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:58  
Date Last Updated: 05/04/2002 08:51:17

MPCA Tank Number: 100D  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 22  
Tank Stored Product Desc: JET A  
Compartment Cap: 25000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:58  
Date Last Updated: 03/13/2003 14:20:04

MPCA Tank Number: 100E  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 14  
Tank Stored Product Desc: GASOLINE  
Compartment Cap: 12500  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:58  
Date Last Updated: 05/04/2002 08:51:17

MPCA Tank Number: 100A  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 4  
Tank Stored Product Desc: AVIATION GAS  
Compartment Cap: 20000  
Heating: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Other Desc: Not reported  
Date Added: 10/10/1999 10:58:58  
Date Last Updated: 05/04/2002 08:51:17

Name: DULUTH TRUCK DRIVING SCHOOL  
Address: 8222 STEBNER RD  
City,State,Zip: DULUTH, MN 55811  
AI ID: 27682  
Tank Site ID: TS0054274  
Item ID: 27682-EQUI0000000002  
SI Type: Aboveground Storage Tank  
SI Design: 100B  
SI Description: 15,000 gal/Aviation Gas/Removed  
Substance: Aviation Gas  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST None  
Install Date: 1974-01-01 00:00:00  
Status Change Date: 2008-09-24 00:00:00  
Material: Carbon steel  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallon: 15000  
Longitude: Not reported  
Latitude: Not reported  
Coord Collection Method: Not reported  
Owner Name: North Country Aviation  
Owner Address: Duluth International Airport  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0054274>

Name: DULUTH TRUCK DRIVING SCHOOL  
Address: 8222 STEBNER RD  
City,State,Zip: DULUTH, MN 55811  
AI ID: 27682  
Tank Site ID: TS0054274  
Item ID: 27682-EQUI0000000003  
SI Type: Aboveground Storage Tank  
SI Design: 100C  
SI Description: 15,000 gal/Gasoline Blends (E1-E49)/Removed  
Substance: Gasoline Blends (E1-E49)  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST None  
Install Date: 1974-01-01 00:00:00  
Status Change Date: 2008-09-24 00:00:00  
Material: Carbon steel  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallon: 15000  
Longitude: Not reported  
Latitude: Not reported  
Coord Collection Method: Not reported  
Owner Name: North Country Aviation



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Owner Address: Duluth International Airport  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0054274>

Name: DULUTH TRUCK DRIVING SCHOOL  
Address: 8222 STEBNER RD  
City,State,Zip: DULUTH, MN 55811  
AI ID: 27682  
Tank Site ID: TS0054274  
Item ID: 27682-EQUI0000000004  
SI Type: Aboveground Storage Tank  
SI Design: 100D  
SI Description: 25,000 gal/Petroleum Other/Removed  
Substance: Petroleum Other  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST None  
Install Date: 1987-10-01 00:00:00  
Status Change Date: 2008-09-24 00:00:00  
Material: Carbon steel  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallon: 25000  
Longitude: Not reported  
Latitude: Not reported  
Coord Collection Method: Not reported  
Owner Name: North Country Aviation  
Owner Address: Duluth International Airport  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0054274>

Name: DULUTH TRUCK DRIVING SCHOOL  
Address: 8222 STEBNER RD  
City,State,Zip: DULUTH, MN 55811  
AI ID: 27682  
Tank Site ID: TS0054274  
Item ID: 27682-EQUI0000000005  
SI Type: Aboveground Storage Tank  
SI Design: 100E  
SI Description: 12,500 gal/Gasoline Blends (E1-E49)/Removed  
Substance: Gasoline Blends (E1-E49)  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST None  
Install Date: 1987-10-01 00:00:00  
Status Change Date: 2008-09-24 00:00:00  
Material: Carbon steel  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallon: 12500  
Longitude: Not reported  
Latitude: Not reported  
Coord Collection Method: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**A100283154**

Owner Name: North Country Aviation  
 Owner Address: Duluth International Airport  
 Owner City: Duluth  
 Owner State: MN  
 Owner Zip: 55811  
 Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0054274>

**2**  
**NORTHSTAR MACHINE & TOOL CO INC**  
**4845 LACKLAND ST**  
**< 1/8**  
**DULUTH, MN 55811**  
**1 ft.**

**RCRA NonGen / NLR**  
**FINDS**  
**ECHO**  
**MN WIMN**  
**1004739431**  
**MNR000081794**

RCRA Listings:

<b>Relative:</b>	Date Form Received by Agency:	20000821
<b>Lower</b>	Handler Name:	NORTHSTAR MACHINE & TOOL CO INC
<b>Actual:</b>	Handler Address:	4845 LACKLAND ST
<b>1426 ft.</b>	Handler City,State,Zip:	DULUTH, MN 55811-1545
	EPA ID:	MNR000081794
	Contact Name:	JOHN EAGLETON
	Contact Address:	4845 LACKLAND ST
	Contact City,State,Zip:	DULUTH, MN 55811-1545
	Contact Telephone:	218-720-2920
	Contact Fax:	Not reported
	Contact Email:	Not reported
	Contact Title:	Not reported
	EPA Region:	05
	Land Type:	Private
	Federal Waste Generator Description:	Not a generator, verified
	Non-Notifier:	Not reported
	Biennial Report Cycle:	Not reported
	Accessibility:	Not reported
	Active Site Indicator:	Not reported
	State District Owner:	Not reported
	State District:	Not reported
	Mailing Address:	4845 LACKLAND ST
	Mailing City,State,Zip:	DULUTH, MN 55811-1545
	Owner Name:	NORTHSTAR MACHINE & TOOL CO INC
	Owner Type:	Private
	Operator Name:	Not reported
	Operator Type:	Not reported
	Short-Term Generator Activity:	No
	Importer Activity:	No
	Mixed Waste Generator:	No
	Transporter Activity:	No
	Transfer Facility Activity:	No
	Recycler Activity with Storage:	No
	Small Quantity On-Site Burner Exemption:	No
	Smelting Melting and Refining Furnace Exemption:	No
	Underground Injection Control:	No
	Off-Site Waste Receipt:	No
	Universal Waste Indicator:	No
	Universal Waste Destination Facility:	No
	Federal Universal Waste:	No
	Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
	Active Site Converter Treatment storage and Disposal Facility:	Not reported
	Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
	Active Site State-Reg Handler:	---
	Federal Facility Indicator:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHSTAR MACHINE & TOOL CO INC (Continued)**

**1004739431**

Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20070620
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D018
Waste Description:	BENZENE
Waste Code:	D039
Waste Description:	TETRACHLOROETHYLENE
Waste Code:	D040
Waste Description:	TRICHLOROETHYLENE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NORTHSTAR MACHINE & TOOL CO INC
Legal Status:	Private

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHSTAR MACHINE & TOOL CO INC (Continued)**

**1004739431**

Date Became Current: 20000907  
Date Ended Current: Not reported  
Owner/Operator Address: 4845 LACKLAND ST  
Owner/Operator City,State,Zip: DULUTH, MN 55811-1545  
Owner/Operator Telephone: 218-720-2920  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20000821  
Handler Name: NORTHSTAR MACHINE & TOOL CO INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110003931176

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Registry ID: 110070322049

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

OSHA ESTABLISHMENT

Registry ID: 110070347467

[Click Here for FRS Facility Detail Report:](#)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTHSTAR MACHINE & TOOL CO INC (Continued)**

**1004739431**

Environmental Interest/Information System:  
OSHA ESTABLISHMENT

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1004739431  
Registry ID: 110003931176  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003931176>  
Name: NORTHSTAR MACHINE & TOOL CO I  
Address: 4845 LACKLAND ST  
City,State,Zip: DULUTH, MN 55811

**WIMN:**

Name: NORTHSTAR MACHINE & TOOL CO INC  
Address: 4845 LACKLAND ST  
Address Description: 4845 Lackland St  
City,State,Zip: DULUTH, MN 55811  
Status: N  
Latitude: 46.837204  
Longitude: -92.194633600000003  
Item ID: 52616-AISI0000052616  
AI ID: 52616  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 52616  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Hazardous Waste  
Program List: HW  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: CSLL: Site along road used for address match  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: A1  
Method Description: Address Matching House Number  
Ref Code: GEN  
Ref Description: General Location

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NORTHSTAR MACHINE & TOOL CO INC (Continued)**

**1004739431**

Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	09/07/2000
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	09/30/2011
The Delta Spatial ID:	54851
Activity:	Hazardous Waste
Activity List:	Hazardous Waste
MPCA ID:	MNR000081794
MPCA List:	MNR000081794
Program List:	Hazardous Waste
Classification:	Machine Shops
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/52616">https://webapp.pca.state.mn.us/wimn/site/52616</a>

WIMN Detail as of Aug 2016:

Legislative District:	3B
Latitude:	46.83771517
Longitude:	-92.19490856
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	MNR000081794
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive

**A3**  
**East**  
**< 1/8**  
**0.008 mi.**  
**40 ft.**

**AVIS RENT A CAR**  
**4701 AIRPORT RD**  
**DULUTH, MN 55811**  
**Site 1 of 14 in cluster A**

**MN UST**    **U004280001**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1421 ft.**

UST:

Name:	AVIS RENT A CAR
Address:	4701 AIRPORT RD
City,State,Zip:	DULUTH, MN 55811
Item Compartment ID:	137286-EQUI0000000001-1
AI ID:	137286
Tank Site ID:	TS0012553
Item ID:	137286-EQUI0000000001
SI Type:	Underground Storage Tank System
SI Design:	1
SI Description:	4,000 gal/Gasoline/Removed
Compartment Number:	1
Substance:	Gasoline
Wall Type:	Single
Overfill Prevention System:	UST Not needed
Install Date:	1972-01-01 00:00:00
Material:	Bare/Paint/Asph Coat Steel
Status Change Date:	1992-12-18 00:00:00
Tank Status:	Removed
Tanks Contractor:	Not reported
Capacity Gallons:	4000
Longitude:	-92.23551093
Latitude:	46.84924589
Coord Collection Method:	Public Land Survey-Two Quarter
Owner:	Twin Ports Transport



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U004280001**

Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner Zip: Not reported  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0012553>

UST Prior to 08/2016:

Envid: U003852968  
Program Interest Id: 201383  
Facility Address 2: Not reported  
Address Id: 59811292  
MPCA Tank Number: 001  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 5  
Substance: 14  
Client Tank Number: 001  
AST Base Material: Not reported  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: 1  
Tank Status Code: 5  
Tank Capacity: 4000  
Tank Registration Date: 02/15/1989 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: N  
HazWaste Generator Id: MND981774953  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:13  
Date Last Updated: 09/24/2008 14:04:24  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: N  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 12553

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: GZARLIN  
Program Id: 201383  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Main Site Building  
TMSP Added: 03/10/2011 14:12:08  
Date Last Updated: 03/23/2011 11:05:36  
Coord Source Type: Not reported  
Org Name Source: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U004280001**

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 14.13  
Longitude Degree: -92  
Longitude Minute: 10  
Longitude Second: 45.87  
Staff Id Who Did The Last Update: MAPTOOL  
Program Id: 201383  
Latlong ID: 194249  
Collection Date: 04/14/2011 13:24:20  
LatLong Description: Not reported  
TMSP Added: 04/14/2011 13:23:33  
Date Last Updated: 04/14/2011 13:24:18  
Coord Source Type: Not reported  
Org Name Source: Not reported

Insrem:

Piping Material: 1  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Tab site:

Facility Code: 2  
Staff Id Who Did The Last Update: SYS  
Program Interest Id: 201383  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: 02/15/1989 00:00:00  
AST Registration Date: Not reported  
Date Added: 07/23/1992 19:11:05  
Date Last Updated: 05/23/2003 09:21:02  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

Tank A:

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 001  
Above Or Underground: 1  
Tank Action ID: 269449  
Contractor Number: 227  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 12/18/1992 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:30:51  
Date Last Updated: 05/04/2002 08:20:38

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 001  
Above Or Underground: 1  
Tank Action ID: 321272  
Contractor Number: Not reported  
Supervisor Number: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AVIS RENT A CAR (Continued)**

**U004280001**

Tank Action: 1  
 Action Date: 01/01/1972 00:00:00  
 Action Date Unknown: 1  
 Corrosion Expert Name: Not reported  
 Lab Flag: Not reported  
 Date Added: 05/05/2000 08:30:51  
 Date Last Updated: 05/04/2002 08:20:38

Tank C:  
 MPCA Tank Number: 001  
 Above Or Underground: 1  
 Compartment Number: 1  
 Tank Stored Product Code: 14  
 Tank Stored Product Desc: GASOLINE  
 Compartment Cap: 4000  
 Heating: 1  
 Other Desc: Not reported  
 Date Added: 10/10/1999 10:58:40  
 Date Last Updated: 05/04/2002 08:20:38

**A4**  
**East**  
**< 1/8**  
**0.008 mi.**  
**40 ft.**

**AVIS RENT A CAR**  
**4701 AIRPORT RD**  
**DULUTH, MN 55811**  
**Site 2 of 14 in cluster A**

**MN LUST** **U003852968**  
**MN SRS** **N/A**  
**MN SPILLS**  
**MN Financial Assurance**  
**MN WIMN**

**Relative:**  
**Lower**  
**Actual:**  
**1421 ft.**

**LUST:**  
 Name: AVIS RENT A CAR  
 Address: 4701 AIRPORT RD  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 137286-AREA0000000001  
 MNPCA ID: 218590  
 AI ID: 137286  
 AI Name: Avis Rent a Car  
 Site Type: Leak Site  
 Hydro: Jonathan Smith (no longer at MPCA)  
 Project Manager: Steve Leppala (no longer at MPCA)  
 Latitude: 46.83726227  
 Longitude: -92.17941242  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/137286>  
 Leak Discovered: 08/11/1992  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Twin Ports Transport  
 Site Closed: 06/29/1998  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported  
 SI Type: Underground Storage Tank System  
 Leak Reported: 08/11/1992

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AVIS RENT A CAR (Continued)

U003852968

0816:  
Program IN: 218590  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 5937  
Township Name: Not reported  
Addr ID: 59811292  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 01/28/1999 08:54:47  
Interest End Date: 04/14/2011 13:19:26  
Source: CORE  
Site ID: 59811302  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: 08/11/1992  
Cubic Yards Excavated: 200  
Cond Closure Date: Not reported  
Complete Site Closure Date: 06/29/1998 00:00:00  
Contaminated Soils Remaining: Y  
Enforcement Action Begin Date: 11/25/1992  
Last Trust Eligible: Y  
Offsite Contamination: N  
Reimbursement Awarded: N  
Release Discovered Date: 08/11/1992  
Leak Reported Date: 08/11/1992  
Std Letter Response Date: Not reported  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:47  
TMSP Last Update: 07/01/2014 10:27:08  
Staff ID Last Update: DBOETTC  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

GW Info:  
MN PCA ID: 218590  
Dw Supply Contam: N  
Free Product Observed: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Free Product Thickness: Not reported  
Ground Water Contam: N  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:31  
TMSP Last Update: 11/04/2003 12:57:07  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 218590  
Prod Released Sequence Id: 403817  
Leak Product: 1  
Tmsp Added: 12/27/1999 12:59:09  
Tmsp Last\_updt: 05/04/2002 09:19:50  
Staff Id Last Updt: TANKS

Name: NORTHWEST STORAGE AREA DULUTH IAP  
Address: 4701 AIRPORT RD  
City,State,Zip: DULUTH, MN 55802  
Item ID: 189430-AREA0000000001  
MNPCA ID: 222779  
AI ID: 189430  
AI Name: Northwest Storage Area Duluth Iap  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83918402  
Longitude: -92.17859002  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/189430>  
Leak Discovered: 06/24/1997  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: Not reported  
Site Closed: 08/27/1997  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Owner ZIP:	Not reported
SI Type:	Not reported
Leak Reported:	06/25/1997
0816:	
Program IN:	222779
Facility Address 2:	Not reported
State Code:	MN
Country Code:	USA
Foreign State:	Not reported
Foreign Zone:	Not reported
Leak ID:	10276
Township Name:	Whiteface Reservoir
Addr ID:	269783
Active Flag:	N
Interest Type:	LS
Interest Phone:	NO CORE PI PH.
Interest Start Date:	07/01/1999 11:05:12
Interest End Date:	11/29/2006 08:17:50
Source:	CORE
Site ID:	245840
Leak Site:	1
File Archive Box:	Not reported
File Archive Lot:	Not reported
Soil Digout Date:	Not reported
Cubic Yards Excavated:	Not reported
Cond Closure Date:	Not reported
Complete Site Closure Date:	08/27/1997 00:00:00
Contaminated Soils Remaining:	U
Enforcement Action Begin Date:	06/30/1997
Last Trust Eligible:	Y
Offsite Contamination:	U
Reimbursement Awarded:	N
Release Discovered Date:	06/24/1997
Leak Reported Date:	06/25/1997
Std Letter Response Date:	07/09/1997
Surface Water Impact:	U
Utility Project Flag:	N
TMSP Added:	12/04/1999 14:03:51
TMSP Last Update:	08/13/2014 13:40:07
Staff ID Last Update:	DBOETTC
Release From LAST:	N
Release From LUST:	N
Tank Registration Status Code:	F
VPIC Application Date:	Not reported
VPIC Acres:	Not reported
Vapor Intrusion Checked Flag:	Not reported
Soil Gas Data Collected Flag:	Not reported
Soil Gas Action Level Flag:	Not reported
Sub Slab Sample Collected Flag:	Not reported
Indoor Air Collected Flag:	Not reported
Vapor Intrusion Action Flag:	Not reported
Vapor Intrusion Comments:	Not reported
Soil Gas Data Comments:	Not reported
Comments:	Not reported

GW Info:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

MN PCA ID: 222779  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: N  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:34  
TMSP Last Update: 11/04/2003 12:57:08  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 222779  
Prod Released Sequence Id: 35800  
Leak Product: 1  
Tmsp Added: 03/31/2003 15:36:47  
Tmsp Last\_updt: 03/31/2003 15:36:47  
Staff Id Last Updt: AMUSCH

**SRS:**

Name: NORTHWEST STORAGE AREA DULUTH IAP  
Address: 4701 AIRPORT RD  
City,State,Zip: DULUTH, MN 55802  
Facility ID: LS0010276  
Item ID: 189430-AREA0000000001  
AI ID: 189430  
AI Name: Northwest Storage Area Duluth Iap  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83918402000  
Longitude: -92.17859002000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/189430>  
Leak Discovered: 06/24/1997  
Leak Reported: 06/25/1997  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AVIS RENT A CAR (Continued)

U003852968

Site Deleted from NPL:	Not reported
Site Closed:	08/27/1997
Owner:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
Acreage:	0.00000000
BPET:	Not reported
BVIC:	Not reported
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW19970001
Act Desc:	Leak Site Investigation
Status:	Closed
Name:	AVIS RENT A CAR
Address:	4701 AIRPORT RD
City,State,Zip:	DULUTH, MN 55811
Facility ID:	LS0005937
Item ID:	137286-AREA0000000001
AI ID:	137286
AI Name:	Avis Rent a Car
Facility Type:	LEAK
Hydro:	Jonathan Smith (no longer at MPCA)
Project Manager:	Steve Leppala (no longer at MPCA)
Latitude:	46.83726227000
Longitude:	-92.17941242000
Coord Collection Method:	Digitized - MPCA internal map
Migrated:	Not reported
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/137286">https://webapp.pca.state.mn.us/wimn/site/137286</a>
Leak Discovered:	08/11/1992
Leak Reported:	08/11/1992
Application / Notification Received:	Not reported
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	06/29/1998
Owner:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
Acreage:	0.00000000
BPET:	Not reported
BVIC:	Not reported
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW19920001
Act Desc:	Leak Site Investigation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AVIS RENT A CAR (Continued)

U003852968

Status: Closed

SPILLS:

Name: NORTHWEST AIRLINES  
Address: 4701 AIRPORT DR  
City,State,Zip: DULUTH, MN 55811  
Program ID: 180249  
Preferred ID: 22557  
Incident ID: 22557  
Incident Date: 10/25/1995  
Program: Emergency Response  
Incident Types: Spill or Release  
Duty Officer Number: Not reported  
Lead Investigator: Kevin Faus  
Incident Status: Closed or Completed  
Closure Type: Not reported  
AI ID source: Not reported  
Source name: NORTHWEST AIRLINES  
Source Address: Not reported  
Source City: Not reported  
Source State: Not reported  
Source ZIP: Not reported  
Substance: 300 gallons Aviation Gas  
Latitude: Not reported  
Longitude: Not reported  
Source CM: Not reported

Product:

Program ID: 180249  
Spill Incident Accuracy ID: 74336  
Spill Product Code: 24  
Spill Qty Units: 5  
Spill Incident Accuracy: 2  
Spill Released Qty: 300  
Tmsp Added: 03/21/1996 00:00:00  
Tmsp Last Update: 05/04/2002 07:10:26  
Staff ID Last Update: TANKS

Facility Information:

Program ID: 180249  
Facility Address 2: Not reported  
Spill Date: 10/25/1995

MN Financial Assurance 1:

PROGRAM ID: 180249  
Township Name: Not reported  
Region: 1  
Interest Type: Spill site  
ADDR ID: 281304  
Interest Telephone: Not reported  
Preferred ID: 22557  
Interest Start Date: 03/21/1996  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 03/21/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

TMSP Last Update: 10/09/2006 10:10:44  
Staff ID Last Update: JMCCANN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: \*FILE WITH KF\*\n\nfile exists

PROGRAM ID: 201383  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 59811292  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 12553  
Interest Start Date: 07/23/1992  
Interest End Date: 04/14/2011  
Activity Flag: N  
TMSP Added: 08/31/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 59811302  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 208123  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 19096  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 21164  
Interest Start Date: 06/03/1999  
Interest End Date: 03/26/2012  
Activity Flag: N  
TMSP Added: 09/14/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 780  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 208123  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site  
ADDR ID: 281304

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Interest Telephone: 2187276522  
Preferred ID: 21164  
Interest Start Date: 06/03/1999  
Interest End Date: Not reported  
Activity Flag: N  
TMSP Added: 06/03/1999  
TMSP Last Update: 09/14/2006 07:10:48  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 216260  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 19096  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 3496  
Interest Start Date: 08/26/1996  
Interest End Date: 03/26/2012  
Activity Flag: N  
TMSP Added: 03/23/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 780  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 218590  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 59811292  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 5937  
Interest Start Date: 01/28/1999  
Interest End Date: 04/14/2011  
Activity Flag: N  
TMSP Added: 03/24/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 59811302  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

PROGRAM ID: 222779  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 269783  
Interest Telephone: Not reported  
Preferred ID: 10276  
Interest Start Date: 07/01/1999  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/29/2006 08:17:50  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 222779  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 269783  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 10276  
Interest Start Date: 07/01/1999  
Interest End Date: 11/29/2006  
Activity Flag: N  
TMSP Added: 11/29/2006  
TMSP Last Update: 11/10/2014 08:17:06  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 245840  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 208123  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 03/08/2011 09:10:28  
TMSP Last Update: 03/14/2011 08:28:19  
Staff ID Last Update: GZARLIN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 780  
Spatial ID: 51430703

Program Id: 208123  
Lat/Long ID: 73296  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 10.81  
Longitude Degrees: -92  
Longitude Minutes: 10  
Longitude Seconds: 29.35  
Collection Date: 03/14/2003 00:00:00  
Lat/Long Description: Not reported  
TMSP Added: 03/20/2003 11:44:14  
TMSP Last Update: 07/14/2004 22:03:07  
Staff ID Last Update: BOMAN  
Coord Source Type: 2  
Org Name Source: MPCA  
Coord Coll Meth: D3  
Map Scale Code: T  
Source: CORE  
Site ID: 780  
Spatial ID: 51430703

Tab Site:  
Program Id: 208123  
Facility Code: 37  
Above or Under Code: 2  
Indian Reservation: N  
Ust Registration Date: 10/20/1990 00:00:00  
Ast Registration Date: Not reported  
TMSP Added: 06/03/1999 10:53:24  
TMSP Last Update: 05/23/2003 09:21:04  
Staff ID Last Update: SYS  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

Latitude Longitude:  
Program Id: 216260  
Lat/Long ID: 2888  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 13.7455  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 12.2412  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:06

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

TMSP Last Update: 06/03/2008 10:32:30  
Staff ID Last Update: SCHILD  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: IU  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 780  
Spatial ID: 51063766

Program Id: 216260  
Lat/Long ID: 73296  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 10.81  
Longitude Degrees: -92  
Longitude Minutes: 10  
Longitude Seconds: 29.35  
Collection Date: 03/14/2003 00:00:00  
Lat/Long Description: Not reported  
TMSP Added: 03/20/2003 11:44:14  
TMSP Last Update: 07/14/2004 22:03:07  
Staff ID Last Update: BOMAN  
Coord Source Type: 2  
Org Name Source: MPCA  
Coord Coll Meth: D3  
Map Scale Code: T  
Source: CORE  
Site ID: 780  
Spatial ID: 51063766

Staff Name:  
Program Id: 216260  
Staff Sequence ID: 11775  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:08  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: SPS  
Staff ID Number: 4118

Program Id: 216260  
Staff Sequence ID: 15755  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:13  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3296



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Latitude Longitude:  
Program Id: 218590  
Lat/Long ID: 4900  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 8.7799  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 42.6311  
Collection Date: Not reported  
Lat/Long Description: Main Site Building  
TMSP Added: 08/03/2004 12:34:08  
TMSP Last Update: 03/23/2011 11:00:11  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: IU  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 59811302  
Spatial ID: 51070157

Program Id: 218590  
Lat/Long ID: 194249  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 14.13  
Longitude Degrees: -92  
Longitude Minutes: 10  
Longitude Seconds: 45.87  
Collection Date: 04/14/2011 13:24:20  
Lat/Long Description: Not reported  
TMSP Added: 04/14/2011 13:23:33  
TMSP Last Update: 04/14/2011 13:24:18  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 59811302  
Spatial ID: 51070157

Staff Name:  
Program Id: 218590  
Staff Sequence ID: 2759  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:03:59  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3358

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Program Id: 218590  
Staff Sequence ID: 17957  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:15  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

Program Id: 218590  
Staff Sequence ID: 28119  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:25  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: HYD  
Staff ID Number: 3407

Latitude Longitude:  
Program Id: 222779  
Lat/Long ID: 8621  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 13.8757  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 18.3647  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:12  
TMSP Last Update: 06/03/2008 10:17:36  
Staff ID Last Update: SCHILD  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: IU  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 245840  
Spatial ID: 51830738

Program Id: 222779  
Lat/Long ID: 132647  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 21.08  
Longitude Degrees: -92  
Longitude Minutes: 10  
Longitude Seconds: 42.92

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Collection Date: 03/09/2011 08:25:38  
Lat/Long Description: Not reported  
TMSP Added: 11/29/2006 08:18:01  
TMSP Last Update: 03/09/2011 08:25:39  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 245840  
Spatial ID: 51830738

Staff Name:

Program Id: 222779  
Staff Sequence ID: 6664  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:03  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3433

Program Id: 222779  
Staff Sequence ID: 21930  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:18  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

Latitude Longitude:

Program Id: 201383  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Main Site Building  
TMSP Added: 03/10/2011 14:12:08  
TMSP Last Update: 03/23/2011 11:05:36  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 59811302  
Spatial ID: 51388346  
  
Program Id: 201383  
Lat/Long ID: 194249  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 14.13  
Longitude Degrees: -92  
Longitude Minutes: 10  
Longitude Seconds: 45.87  
Collection Date: 04/14/2011 13:24:20  
Lat/Long Description: Not reported  
TMSP Added: 04/14/2011 13:23:33  
TMSP Last Update: 04/14/2011 13:24:18  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 59811302  
Spatial ID: 51388346

Tab Site:  
Program Id: 201383  
Facility Code: 2  
Above or Under Code: 2  
Indian Reservation: N  
Ust Registration Date: 02/15/1989 00:00:00  
Ast Registration Date: Not reported  
TMSP Added: 07/23/1992 19:11:05  
TMSP Last Update: 05/23/2003 09:21:02  
Staff ID Last Update: SYS  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

WIMN:  
Name: AVIS RENT A CAR  
Address: 4701 AIRPORT RD  
Address Description: 4701 Airport Rd  
City,State,Zip: DULUTH, MN 55811  
Status: N  
Latitude: 46.837259199999998  
Longitude: -92.179409000000007  
Item ID: 137286-AISI0000137286  
AI ID: 137286  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Subject Item ID:	137286
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Multiple Programs
Program List:	SR; TL
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	03/24/2006
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	04/14/2011
The Delta Spatial ID:	59811303
Activity:	Multiple Activities
Activity List:	Petroleum Remediation, Leak Site; Underground Tanks
MPCA ID:	Multiple IDs
MPCA List:	LS0005937; TS0012553
Program List:	Investigation and Cleanup; Tanks
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/137286">https://webapp.pca.state.mn.us/wimn/site/137286</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.8366544
Longitude:	-92.17486454
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	MNS000217273
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active
Legislative District:	3B
Latitude:	46.83725926

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Longitude:	-92.17940901
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive
Legislative District:	3B
Latitude:	46.8366544
Longitude:	-92.17486454
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	HWLIC1400290
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive
Legislative District:	3B
Latitude:	46.83919111
Longitude:	-92.17858990
Activity:	Leak Site
MPCA ID:	10276
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive
Name:	NORTHWEST STORAGE AREA DULUTH IAP
Address:	4701 AIRPORT RD
Address Description:	4701 Airport Rd
City,State,Zip:	DULUTH, MN 55802
Status:	Y
Latitude:	46.839191100000001
Longitude:	-92.1785899000000006
Item ID:	189430-AISI0000189430
AI ID:	189430
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	189430
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Investigation and Cleanup
Program List:	SR
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/25/2016
Timestamp of Creation:	11/29/2006
User Name of Creator:	DELTA_M_R2
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	51830737
Activity:	Petroleum Remediation, Leak Site
Activity List:	Petroleum Remediation, Leak Site
MPCA ID:	LS0010276
MPCA List:	LS0010276
Program List:	Investigation and Cleanup
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/189430">https://webapp.pca.state.mn.us/wimn/site/189430</a>

WIMN Detail as of Aug 2016:

Legislative District:	3B
Latitude:	46.8366544
Longitude:	-92.17486454
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	MNS000217273
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active

Legislative District:	3B
Latitude:	46.83725926
Longitude:	-92.17940901
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive

Legislative District:	3B
Latitude:	46.8366544
Longitude:	-92.17486454
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	HWLIC1400290
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive

Legislative District:	3B
Latitude:	46.83919111
Longitude:	-92.17858990



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AVIS RENT A CAR (Continued)

U003852968

Activity:	Leak Site
MPCA ID:	10276
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive
Name:	DELTA GLOBAL SERVICES
Address:	4701 AIRPORT DR
Address Description:	4701 Airport Dr
City,State,Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.836611400000002
Longitude:	-92.153061399999999
Item ID:	37752-AISI0000037752
AI ID:	37752
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	37752
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010102
USGS 8-digits Name:	Lake Superior - South
USGS 10-digits:	0401010204
USGS 12-digits:	040101020405
USGS 12-digits Name:	City of Duluth-Frontal Lake Superior
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	07/29/1999
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	45859

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Activity: Hazardous Waste, Minimal quantity generator  
Activity List: Hazardous Waste, Minimal quantity generator  
MPCA ID: MNS000217273  
MPCA List: MNS000217273  
Program List: Hazardous Waste  
Classification: Scheduled Freight Air Transportation  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/37752>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
Latitude: 46.8366544  
Longitude: -92.17486454  
Activity: Hazardous Waste, Small to Minimal QG  
MPCA ID: MNS000217273  
Major Watershed: St. Louis River  
Coordinate Collection Method: Address Matching House Number  
Status: Active

Legislative District: 3B  
Latitude: 46.83725926  
Longitude: -92.17940901  
Activity: Multiple Activities  
MPCA ID: Multiple Activities  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Inactive

Legislative District: 3B  
Latitude: 46.8366544  
Longitude: -92.17486454  
Activity: Hazardous Waste, Small to Minimal QG  
MPCA ID: HWLIC1400290  
Major Watershed: St. Louis River  
Coordinate Collection Method: Address Matching House Number  
Status: Inactive

Legislative District: 3B  
Latitude: 46.83919111  
Longitude: -92.17858990  
Activity: Leak Site  
MPCA ID: 10276  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Inactive

Name: HK ENTERPRISES INC HERTZ SYSTEM LIC  
Address: 4701 AIRPORT DR  
Address Description: 4701 Airport Dr  
City,State,Zip: DULUTH, MN 55811  
Status: N  
Latitude: 46.836611400000002  
Longitude: -92.153061399999999  
Item ID: 39025-AISI0000039025  
AI ID: 39025  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

AVIS RENT A CAR (Continued)

U003852968

Subject Item ID:	39025
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010102
USGS 8-digits Name:	Lake Superior - South
USGS 10-digits:	0401010204
USGS 12-digits:	040101020405
USGS 12-digits Name:	City of Duluth-Frontal Lake Superior
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	07/29/1999
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	05/31/2014
The Delta Spatial ID:	45728
Activity:	Hazardous Waste
Activity List:	Hazardous Waste
MPCA ID:	HWLIC1400290
MPCA List:	HWLIC1400290
Program List:	Hazardous Waste
Classification:	Passenger Car Rental
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/39025">https://webapp.pca.state.mn.us/wimn/site/39025</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.8366544
Longitude:	-92.17486454
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	MNS000217273
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active
Legislative District:	3B
Latitude:	46.83725926

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AVIS RENT A CAR (Continued)**

**U003852968**

Longitude:	-92.17940901
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive
Legislative District:	3B
Latitude:	46.8366544
Longitude:	-92.17486454
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	HWLIC1400290
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive
Legislative District:	3B
Latitude:	46.83919111
Longitude:	-92.17858990
Activity:	Leak Site
MPCA ID:	10276
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive

**B5**  
**West**  
**< 1/8**  
**0.009 mi.**  
**47 ft.**

**CIRRUS COMPLETION CENTER EAST EXPANSION**  
**4926 AIRPORT RD**  
**DULUTH, MN 55802**  
**Site 1 of 3 in cluster B**

**MN NPDES S127976282**  
**MN WIMN N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1420 ft.**

NPDES:	
Name:	CIRRUS COMPLETION CENTER EAST EXPANSION
Address:	4926 AIRPORT RD
City,State,Zip:	DULUTH, MN 55802
Active:	Y
Activity ID:	C00061119
Preferred ID:	Not reported
Activity Sys ID:	24833061119
Activity Type:	Construction Stormwater Permit
Activity Type Code:	45
Effective Start Date:	08/02/2021
End Date:	08/01/2022
Alternative Method:	Not reported
Coverage Date:	07/19/2021
Latitude Degree:	46.83689
Longitude Degree:	-92.19628
Location Description:	Not reported
New Imp Area:	0.44
Old Imp Area:	0.1
Online Submittal:	Not reported
Other Project Type Description:	Not reported
Owner Name:	Cirrus Aircraft
Owner Organization Type:	Private (Non-Government)
Permit Sys ID:	4576735
Project Name:	Cirrus Completion Center East Expansion
Project Size:	0.62

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS COMPLETION CENTER EAST EXPANSION (Continued)**

**S127976282**

Termination Date: Not reported  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Erik Johnson

**WIMN:**

Name: CIRRUS COMPLETION CENTER EAST EXPANSION  
Address: 4926 AIRPORT RD  
Address Description: 4926 Airport Rd  
City,State,Zip: DULUTH, MN 55802  
Status: Y  
Latitude: 46.836889999999997  
Longitude: -92.196280000000002  
Item ID: 248330-AISI0000248330  
AI ID: 248330  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 248330  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Stormwater  
Program List: ST  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS COMPLETION CENTER EAST EXPANSION (Continued)**

**S127976282**

PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DP
Method Description:	Digitized - MPCA online map
Ref Code:	CEN
Ref Description:	Center of Feature Represented
Location Verified Flag:	N
Collection Date:	07/19/2021
Timestamp of Creation:	07/19/2021
User Name of Creator:	RSP
Timestamp of Last Update:	07/19/2021
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Construction Stormwater
Activity List:	Construction Stormwater
MPCA ID:	C00061119
MPCA List:	C00061119
Program List:	Stormwater
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/248330">https://webapp.pca.state.mn.us/wimn/site/248330</a>

**B6**  
**West**  
 < 1/8  
 0.012 mi.  
 64 ft.

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING**

**MN NPDES S121323573**  
**MN WIMN N/A**

**4940 AIRPORT RD # 50**  
**HERMANTOWN, MN 55811**

**Site 2 of 3 in cluster B**

**Relative:**  
**Lower**  
**Actual:**  
**1419 ft.**

<b>NPDES:</b>	
Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER
Address:	4940 AIRPORT RD # 50
City,State,Zip:	HERMANTOWN, MN 55811
Active:	Active
Activity ID:	MNRNE3D54
Preferred ID:	Not reported
Activity Sys ID:	212352
Activity Type:	Not reported
Activity Type Code:	Not reported
Effective Start Date:	04/01/2020
End Date:	Not reported
Alternative Method:	Not reported
Coverage Date:	Not reported
Latitude Degree:	46.837313
Longitude Degree:	-92.198454
Location Description:	Not reported
New Imp Area:	Not reported
Old Imp Area:	Not reported
Online Submittal:	Not reported
Other Project Type Description:	Not reported
Owner Name:	Cirrus Design
Owner Organization Type:	Not reported
Permit Sys ID:	3971895
Project Name:	Not reported
Project Size:	Not reported
Termination Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**S121323573**

Acres: Not reported  
Activity Description: Aircraft painting  
No Exposure: Yes  
One Mile: Not reported  
Permit Type: No Exposure Exclusion  
Sector List: AB, S  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

**WIMN:**

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER  
Address: 4940 AIRPORT RD # 50  
Address Description: 4940 Airport Rd # 50  
City,State,Zip: HERMANTOWN, MN 55811-1503  
Status: Y  
Latitude: 46.837313000000002  
Longitude: -92.198453999999998  
Item ID: 212352-AISI0000212352  
AI ID: 212352  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 212352  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Multiple Programs  
Program List: HW; ST  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**S121323573**

Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	G8
Method Description:	GPS - Other
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	03/11/2020
Timestamp of Creation:	05/02/2016
User Name of Creator:	rparlin
Timestamp of Last Update:	03/11/2020
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Multiple Activities
Activity List:	Hazardous Waste, Large quantity generator; Industrial Stormwater
MPCA ID:	Multiple IDs
MPCA List:	MNRNE3D54; MNS000304376
Program List:	Hazardous Waste; Stormwater
Classification:	Aircraft Manufacturing ; Aircraft Engine and Engine Parts Manufacturing ; Other Aircraft Parts and Auxiliary Equipment Manufacturing
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/212352">https://webapp.pca.state.mn.us/wimn/site/212352</a>

**B7**  
**West**  
**< 1/8**  
**0.012 mi.**  
**64 ft.**

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING**  
**4940 AIRPORT RD**  
**HERMANTOWN, MN 55811**  
**Site 3 of 3 in cluster B**

**RCRA-LQG 1019323987**  
**MNS000304376**

**Relative:**  
**Lower**  
**Actual:**  
**1419 ft.**

RCRA Listings:	
Date Form Received by Agency:	20220224
Handler Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER
Handler Address:	4940 AIRPORT RD
Handler City,State,Zip:	HERMANTOWN, MN 55811-1503
EPA ID:	MNS000304376
Contact Name:	NATHANIEL J ATKINSON
Contact Address:	4515 TAYLOR CIRCLE
Contact City,State,Zip:	DULUTH, MN 55811
Contact Telephone:	218-788-3459
Contact Fax:	Not reported
Contact Email:	NATKINSON@CIRRUSAIRCRAFT.COM
Contact Title:	ENVIRONMENTAL SPECIALIST
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2021
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4515 TAYLOR CIR
Mailing City,State,Zip:	DULUTH, MN 55811-1548
Owner Name:	CIRRUS
Owner Type:	Private

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**1019323987**

Operator Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220311
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**1019323987**

Biennial: List of Years

Year: 2019

[Click Here for Biennial Reporting System Data:](#)

Year: 2017

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code: D001  
Waste Description: IGNITABLE WASTE

Waste Code: D035  
Waste Description: METHYL ETHYL KETONE

Waste Code: F003  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PAT WADDICK
Legal Status:	Private
Date Became Current:	20180215
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT
Legal Status:	Private
Date Became Current:	20160601
Date Ended Current:	20171121
Owner/Operator Address:	4514 TAYLOR CIR
Owner/Operator City,State,Zip:	HERMANTOWN, MN 55811-1540

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**1019323987**

Owner/Operator Telephone:	218-788-3100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT
Legal Status:	Private
Date Became Current:	20160601
Date Ended Current:	20171121
Owner/Operator Address:	4514 TAYLOR CIR
Owner/Operator City,State,Zip:	HERMANTOWN, MN 55811-1540
Owner/Operator Telephone:	218-788-3100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CIRRUS
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT
Legal Status:	Private
Date Became Current:	20160601
Date Ended Current:	20171121
Owner/Operator Address:	4514 TAYLOR CIR
Owner/Operator City,State,Zip:	HERMANTOWN, MN 55811-1540
Owner/Operator Telephone:	218-788-3100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	PAT WADDICK
Legal Status:	Private
Date Became Current:	20180215
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT
Legal Status:	Private
Date Became Current:	20160601

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**1019323987**

Date Ended Current: Not reported  
Owner/Operator Address: 4514 TAYLOR CIR  
Owner/Operator City,State,Zip: HERMANTOWN, MN 55811-1540  
Owner/Operator Telephone: 218-788-3100  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: CIRRUS  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: 4515 TAYLOR CIRCLE  
Owner/Operator City,State,Zip: DULUTH, MN 55811  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Legal Status: Private  
Date Became Current: 20160601  
Date Ended Current: Not reported  
Owner/Operator Address: 4514 TAYLOR CIR  
Owner/Operator City,State,Zip: HERMANTOWN, MN 55811-1540  
Owner/Operator Telephone: 218-788-3100  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20180215  
Handler Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20200217  
Handler Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**1019323987**

Electronic Manifest Broker: No

Receive Date: 20220224  
Handler Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20160601  
Handler Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20171121  
Handler Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20180618  
Handler Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 336411  
NAICS Description: AIRCRAFT MANUFACTURING

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**1019323987**

NAICS Code:	336412
NAICS Description:	AIRCRAFT ENGINE AND ENGINE PARTS MANUFACTURING
NAICS Code:	336413
NAICS Description:	OTHER AIRCRAFT PARTS AND AUXILIARY EQUIPMENT MANUFACTURING
NAICS Code:	481219
NAICS Description:	OTHER NONSCHEDULED AIR TRANSPORTATION

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20190723
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJWS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT - FINISHING CENTER (Continued)**

**1019323987**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

**C8**  
**West**  
**< 1/8**  
**0.015 mi.**  
**81 ft.**

**CIRRUS AIRCRAFT COMPLETION CENTER**

**MN WIMN S120059265**

**N/A**

**ST. LOUIS (County), MN 55811**

**Site 1 of 6 in cluster C**

**Relative:**  
**Lower**  
**Actual:**  
**1427 ft.**

<b>WIMN:</b>	
Name:	CIRRUS AIRCRAFT COMPLETION CENTER
Address:	Not reported
Address Description:	Not reported
City,State,Zip:	MN 55811
Status:	Y
Latitude:	46.836981000000002
Longitude:	-92.195526999999998
Item ID:	157734-AISI0000157734
AI ID:	157734
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	157734
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Stormwater
Program List:	ST
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Project site is located on the South side of Airport Road and East side of Ralston Drive.
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DP
Method Description:	Digitized - MPCA online map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS AIRCRAFT COMPLETION CENTER (Continued)**

**S120059265**

Collection Date: 03/24/2016  
 Timestamp of Creation: 03/24/2016  
 User Name of Creator: RSP  
 Timestamp of Last Update: 04/26/2016  
 User Name of Last Update: spatial\_  
 Status Date: Not reported  
 The Delta Spatial ID: Not reported  
 Activity: Construction Stormwater  
 Activity List: Construction Stormwater  
 MPCA ID: C00042692  
 MPCA List: C00042692  
 Program List: Stormwater  
 Classification: Not reported  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/157734>

**A9**  
**ENE**  
 < 1/8  
 0.017 mi.  
 88 ft.

**MINNESOTA POWER - HANGER**  
**4511 AIRPORT APPROACH RD**  
**DULUTH, MN 55811**

**MN WIMN S121942114**  
**N/A**

**Site 3 of 14 in cluster A**

**Relative:**  
**Lower**  
  
**Actual:**  
**1419 ft.**

WIMN:  
 Name: MINNESOTA POWER - HANGER  
 Address: 4511 AIRPORT APPROACH RD  
 Address Description: 4511 Airport Approach Rd  
 City,State,Zip: DULUTH, MN 55811-1555  
 Status: Y  
 Latitude: 46.833531860000001  
 Longitude: -92.19366402  
 Item ID: 222789-AISI0000222789  
 AI ID: 222789  
 Document ID: 0  
 Subject Item Type Code: CON  
 Subject Item Category Code: AISI  
 Subject Item ID: 222789  
 Subject Item Category Description: Agency Interest  
 Subject Item Type Description: Conventional Site  
 Description: Not reported  
 Subject Item Designation: Not reported  
 MPCA Program: Hazardous Waste  
 Program List: HW  
 City, Township or Unorganized code: 239436  
 City, Township or Unorganized Name: Hermantown  
 Congressional District Code: 8  
 House District: 3B  
 Senate District: 3  
 USGS 8-digits: 04010201  
 USGS 8-digits Name: St. Louis River  
 USGS 10-digits: 0401020116  
 USGS 12-digits: 040102011604  
 USGS 12-digits Name: Saint Louis River  
 MDH Drinking Water Management Code: Not reported  
 MDH Drinking Water Management Name: Not reported  
 Location Description: Not reported  
 Township, Range, Direction, Section QQ: Not reported  
 PLS Township: Not reported  
 Range: Not reported  
 Range Direction: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MINNESOTA POWER - HANGER (Continued)**

**S121942114**

Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	03/15/2018
Timestamp of Creation:	03/15/2018
User Name of Creator:	swright1
Timestamp of Last Update:	03/15/2018
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Hazardous Waste, Minimal quantity generator
Activity List:	Hazardous Waste, Minimal quantity generator
MPCA ID:	MNS000320328
MPCA List:	MNS000320328
Program List:	Hazardous Waste
Classification:	Other Airport Operations
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/222789">https://webapp.pca.state.mn.us/wimn/site/222789</a>

**A10**  
**ENE**  
 < 1/8  
 0.017 mi.  
 88 ft.

**MINNESOTA POWER - HANGER**  
**4511 AIRPORT APPROACH RD**  
**DULUTH, MN 55811**  
**Site 4 of 14 in cluster A**

**RCRA-VSQG 1024888009**  
**MNS000320328**

**Relative:**  
**Lower**  
**Actual:**  
**1419 ft.**

RCRA Listings:	
Date Form Received by Agency:	20190815
Handler Name:	MINNESOTA POWER - HANGER
Handler Address:	4511 AIRPORT APPROACH RD
Handler City,State,Zip:	DULUTH, MN 55811-1555
EPA ID:	MNS000320328
Contact Name:	DREW JANKE
Contact Address:	30 SUPERIOR ST
Contact City,State,Zip:	DULUTH, MN 55802-2191
Contact Telephone:	218-355-3569
Contact Fax:	Not reported
Contact Email:	DJANKE@MNPOWER.COM
Contact Title:	ENVIRONMENTAL SPECIALIST
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	30 W SUPERIOR ST
Mailing City,State,Zip:	DULUTH, MN 55802-2191
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	ALLETE, INC.
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MINNESOTA POWER - HANGER (Continued)**

**1024888009**

Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200428
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code: D001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MINNESOTA POWER - HANGER (Continued)**

**1024888009**

Waste Description: IGNITABLE WASTE  
Waste Code: D007  
Waste Description: CHROMIUM  
Waste Code: D035  
Waste Description: METHYL ETHYL KETONE

Handler - Owner Operator:

Owner/Operator Indicator: Operator  
Owner/Operator Name: ALLETE, INC.  
Legal Status: Private  
Date Became Current: 20180315  
Date Ended Current: 20190815  
Owner/Operator Address: 30 WEST SUPERIOR STREET  
Owner/Operator City,State,Zip: DULUTH, MN 55802  
Owner/Operator Telephone: 218-355-3574  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20180315  
Handler Name: MINNESOTA POWER - HANGER  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20190815  
Handler Name: MINNESOTA POWER - HANGER  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations: No Violations Found

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MINNESOTA POWER - HANGER (Continued)**

**1024888009**

Evaluation Action Summary:  
 Evaluations:

No Evaluations Found

**11**  
**West**  
**< 1/8**  
**0.020 mi.**  
**108 ft.**

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT**  
**4961 AIRPORT RD**  
**DULUTH, MN 55811**

**MN NPDES S120059401**  
**MN WIMN N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1419 ft.**

NPDES:  
 Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
 Address: 4961 AIRPORT RD  
 City,State,Zip: DULUTH, MN 55811  
 Active: Active  
 Activity ID: MNRNE3D4Q  
 Preferred ID: Not reported  
 Activity Sys ID: 157915  
 Activity Type: Not reported  
 Activity Type Code: Not reported  
 Effective Start Date: 06/17/2021  
 End Date: Not reported  
 Alternative Method: Not reported  
 Coverage Date: Not reported  
 Latitude Degree: 46.837396  
 Longitude Degree: -92.199658  
 Location Description: Not reported  
 New Imp Area: Not reported  
 Old Imp Area: Not reported  
 Online Submittal: Not reported  
 Other Project Type Description: Not reported  
 Owner Name: Cirrus Aircraft  
 Owner Organization Type: Not reported  
 Permit Sys ID: 4545963  
 Project Name: Not reported  
 Project Size: Not reported  
 Termination Date: Not reported  
 Acres: Not reported  
 Activity Description: Industrial activities occurring at the facility consist of raw material receiving, cutting, machining and welding of steel and aluminum components, soldering, aircraft assembly, shipping, minor aircraft maintenance and sanding and cutting.  
 No Exposure: Yes  
 One Mile: Not reported  
 Permit Type: No Exposure Exclusion  
 Sector List: AB, S  
 Major Watershed: Not reported  
 HUC: Not reported  
 Expiration Date: Not reported  
 Effective Permit: Not reported  
 NPDES Flag: Not reported  
 Major Minor: Not reported  
 Fac Class: Not reported  
 Land Application Type: Not reported  
 SIC 1: Not reported  
 Data Manager: Not reported  
 Permit Writer: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S120059401**

Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

**WIMN:**

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4961 AIRPORT RD  
Address Description: 4961 Airport Rd  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.838096720000003  
Longitude: -92.198821719999998  
Item ID: 157915-AISI0000157915  
AI ID: 157915  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 157915  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Stormwater  
Program List: ST  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: A1  
Method Description: Address Matching House Number  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 06/17/2021  
Timestamp of Creation: 04/06/2016  
User Name of Creator: rparlin  
Timestamp of Last Update: 06/17/2021  
User Name of Last Update: geo\_nc  
Status Date: Not reported  
The Delta Spatial ID: Not reported  
Activity: Industrial Stormwater

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S120059401**

Activity List:	Industrial Stormwater
MPCA ID:	MNRNE3D4Q
MPCA List:	MNRNE3D4Q
Program List:	Stormwater
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/157915">https://webapp.pca.state.mn.us/wimn/site/157915</a>

**A12**  
**East**  
**< 1/8**  
**0.023 mi.**  
**124 ft.**  
  
**Relative:**  
**Lower**  
  
**Actual:**  
**1418 ft.**

**FEDEX DLH**  
**4510 AIRPORT APPROACH RD**  
**DULUTH, MN 55811**

**Site 5 of 14 in cluster A**

**RCRA-VSQQ** **1004737507**  
**FINDS** **MNR000051375**  
**ECHO**  
**MN MANIFEST**  
**MN NPDES**  
**MN TIER 2**  
**MN WIMM**

RCRA Listings:		
Date Form Received by Agency:		20200124
Handler Name:	FEDEX DLH	
Handler Address:		4510 AIRPORT APPROACH RD
Handler City,State,Zip:		DULUTH, MN 55811-1562
EPA ID:		MNR000051375
Contact Name:		TANYA HENDERSON
Contact Address:		3620 HACKS CROSS RD
Contact City,State,Zip:		MEMPHIS, TN 38125
Contact Telephone:		901-434-3300
Contact Fax:		Not reported
Contact Email:		TANYA.HENDERSON@FEDEX.COM
Contact Title:		ENVIRONMENTAL SPECIALIST
EPA Region:		05
Land Type:		Not reported
Federal Waste Generator Description:		Conditionally Exempt Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3620 HACKS CROSS BLDG B
Mailing City,State,Zip:		MEMPHIS, TN 38125
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	FEDEX EXPRESS	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200428
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Hazardous Waste Summary:**

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D008
Waste Description:	LEAD
Waste Code:	D018
Waste Description:	BENZENE

**Handler - Owner Operator:**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	FEDEX EXPRESS
Legal Status:	Private



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Date Became Current: 20161018  
Date Ended Current: 20180309  
Owner/Operator Address: 3620 HACKS CROSS RD  
Owner/Operator City,State,Zip: MEMPHIS, TN 38125-8800  
Owner/Operator Telephone: 817-606-4516  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: FEDEX EXPRESS  
Legal Status: Private  
Date Became Current: 20161018  
Date Ended Current: 20180309  
Owner/Operator Address: 3620 HACKS CROSS RD  
Owner/Operator City,State,Zip: MEMPHIS, TN 38125-8800  
Owner/Operator Telephone: 817-606-4516  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: FEDERAL EXPRESS  
Legal Status: Private  
Date Became Current: 19990615  
Date Ended Current: Not reported  
Owner/Operator Address: 1980 NONCONNAH BLVD  
Owner/Operator City,State,Zip: MEMPHIS, TN 38132-2103  
Owner/Operator Telephone: 901-434-8468  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

**Historic Generators:**

Receive Date: 20180309  
Handler Name: FEDEX DLH  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20200124  
Handler Name: FEDEX DLH  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19990809
Handler Name:	FEDEX DLH
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	49211
NAICS Description:	COURIERS AND EXPRESS DELIVERY SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found
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Evaluation Action Summary:

Evaluations:	No Evaluations Found
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**FINDS:**

Registry ID:	110003913551
--------------	--------------

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.  
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid:	1004737507
Registry ID:	110003913551
DFR URL:	<a href="http://echo.epa.gov/detailed-facility-report?fid=110003913551">http://echo.epa.gov/detailed-facility-report?fid=110003913551</a>
Name:	FEDEX DLH
Address:	4510 AIRPORT APPROACH RD
City,State,Zip:	DULUTH, MN 55811

**MANIFEST:**

Name:	FEDEX DLH
Address:	4510 AIRPORT APPROACH RD
City,State,Zip:	DULUTH, MN 55811-1562

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Manifest ID: 713070  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: SCR000075150  
Transporter 1 AI ID: 60980  
Transporter 1 AI Name: Safety Kleen - Columbia SC  
Transporter 1 Address: 1301 Gervais St Ste 1900  
Transporter 1 City: Columbia  
Transporter 1 State: SC  
Transporter 1 ZIP: 29201-3335  
Transporter 2 ID: SCR000074591  
Transporter 2 AI ID: 59299  
Transporter 2 AI Name: Safety Kleen TG Inc  
Transporter 2 Address: 1301 Gervais St Ste 300  
Transporter 2 City: Columbia  
Transporter 2 State: SC  
Transporter 2 ZIP: 29201-3344  
TSD ID: ILD980613913  
TSD AI ID: 37858  
TSD AI Name: Safety Kleen Envirosystems Inc  
TSD Address: 633 E 138th St  
TSD City: Dolton  
TSD State: IL  
TSD Zip: 60419-1058  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2000-12-07 00:00:00  
Gen Ship Date: 2000-11-17 00:00:00  
Trans 1 Recd Date: 2000-11-17 00:00:00  
Trans 2 Recd Date: 11/20/2000 0:00:00  
Tsd Recd Date: 2000-11-29 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 713070  
Manifest Row: 1  
Haz Material Name: AQUEOUS BRAKE SOLUTION  
Haz Class Number: 9  
UN NA Number: NA3082  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 4  
Waste Units Code: AD  
Waste Code List: D039

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 772632  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: TXR000050930  
Transporter 1 AI ID: 93149  
Transporter 1 AI Name: Safety Kleen Systems Inc  
Transporter 1 Address: 5400 Legacy Dr  
Transporter 1 City: Plano  
Transporter 1 State: TX  
Transporter 1 ZIP: 75024  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: ILD980613913  
TSD AI ID: 37858  
TSD AI Name: Safety Kleen Envirosystems Inc  
TSD Address: 633 E 138th St  
TSD City: Dolton  
TSD State: IL  
TSD Zip: 60419-1058  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2003-12-04 00:00:00  
Gen Ship Date: 2003-11-06 00:00:00  
Trans 1 Recd Date: 2003-11-06 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2003-11-18 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

**NAIC:**

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

**Detail:**

Manifest ID: 772632  
Manifest Row: 1  
Haz Material Name: AQUEOUS BRAKE SOLUTION  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 5  
Waste Units Code: AD  
Waste Code List: D039

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 653977  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 1/27/2000 0:00:00  
Fac Copy Recd Date: 2000-01-27 00:00:00  
Gen Ship Date: 2000-01-24 00:00:00  
Trans 1 Recd Date: 2000-01-24 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2000-01-24 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 653977  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Container Qty: 1  
Container Code: DMML  
Waste Qty: 16  
Waste Units Code: AD  
Waste Code List: D001,D008,D018,D039

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 686462  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: SCR000075150  
Transporter 1 AI ID: 60980  
Transporter 1 AI Name: Safety Kleen - Columbia SC  
Transporter 1 Address: 1301 Gervais St Ste 1900  
Transporter 1 City: Columbia  
Transporter 1 State: SC  
Transporter 1 ZIP: 29201-3335  
Transporter 2 ID: SCR000074591  
Transporter 2 AI ID: 59299  
Transporter 2 AI Name: Safety Kleen TG Inc  
Transporter 2 Address: 1301 Gervais St Ste 300  
Transporter 2 City: Columbia  
Transporter 2 State: SC  
Transporter 2 ZIP: 29201-3344  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2000-09-18 00:00:00  
Gen Ship Date: 2000-09-08 00:00:00  
Trans 1 Recd Date: 2000-09-08 00:00:00  
Trans 2 Recd Date: 9/11/2000 0:00:00  
Tsd Recd Date: 2000-09-11 00:00:00  
Comments: Not reported

**Contact:**

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 686462  
Manifest Row: 1  
Haz Material Name: WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 12  
Waste Units Code: AD  
Waste Code List: D008,D018,D039,D040

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 679290  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: ILD984908202  
Transporter 1 AI ID: 37702  
Transporter 1 AI Name: Safety Kleen Corp  
Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: SCR000074591  
Transporter 2 AI ID: 59299  
Transporter 2 AI Name: Safety Kleen TG Inc  
Transporter 2 Address: 1301 Gervais St Ste 300  
Transporter 2 City: Columbia  
Transporter 2 State: SC  
Transporter 2 ZIP: 29201-3344  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Fac Copy Recd Date: 2000-04-05 00:00:00  
Gen Ship Date: 2000-03-24 00:00:00  
Trans 1 Recd Date: 2000-03-24 00:00:00  
Trans 2 Recd Date: 3/28/2000 0:00:00  
Tsd Recd Date: 2000-03-28 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 679290  
Manifest Row: 1  
Haz Material Name: WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 12  
Waste Units Code: AD  
Waste Code List: D008,D018,D039,D040

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 683505  
Generator ID: MNR000051375  
Generator AI ID: 39796

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Transporter 1 ID: SCR000075150  
Transporter 1 AI ID: 60980  
Transporter 1 AI Name: Safety Kleen - Columbia SC  
Transporter 1 Address: 1301 Gervais St Ste 1900  
Transporter 1 City: Columbia  
Transporter 1 State: SC  
Transporter 1 ZIP: 29201-3335  
Transporter 2 ID: SCR000074591  
Transporter 2 AI ID: 59299  
Transporter 2 AI Name: Safety Kleen TG Inc  
Transporter 2 Address: 1301 Gervais St Ste 300  
Transporter 2 City: Columbia  
Transporter 2 State: SC  
Transporter 2 ZIP: 29201-3344  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2000-06-22 00:00:00  
Gen Ship Date: 2000-06-12 00:00:00  
Trans 1 Recd Date: 2000-06-12 00:00:00  
Trans 2 Recd Date: 6/13/2000 0:00:00  
Tsd Recd Date: 2000-06-13 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 683505  
Manifest Row: 1  
Haz Material Name: WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 44  
Waste Units Code: AD  
Waste Code List: D008,D018,D039,D040

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 645696  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: SCD987574647  
Transporter 1 AI ID: 32928  
Transporter 1 AI Name: Laidlaw Environmental Services Tg Inc  
Transporter 1 Address: 350 Railroad St  
Transporter 1 City: Roebuck  
Transporter 1 State: SC  
Transporter 1 ZIP: 29376-3122  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: ILD980502744  
TSD AI ID: 32926  
TSD AI Name: Laidlaw Environmental Service Of Il Inc  
TSD Address: 6125 N Pecatonica Rd  
TSD City: Pecatonica  
TSD State: IL  
TSD Zip: 61063-8879  
Gen Copy Recd Date: 11/5/1999 0:00:00  
Fac Copy Recd Date: Not reported  
Gen Ship Date: 1999-10-29 00:00:00  
Trans 1 Recd Date: 1999-10-29 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: Not reported  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 645696  
Manifest Row: 1  
Haz Material Name: WASTE OXYGEN GENERATOR CHEMICAL  
Haz Class Number: 5.1  
UN NA Number: UN3356  
Packing Group Number: II  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 20  
Waste Units Code: AD  
Waste Code List: D001

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 573593  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 1/29/1999 0:00:00  
Fac Copy Recd Date: 1999-01-29 00:00:00  
Gen Ship Date: 1999-01-26 00:00:00  
Trans 1 Recd Date: 1999-01-26 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1999-01-26 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 573593  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 16

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Waste Units Code: AD  
Waste Code List: D001

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 573594  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 7/29/1999 0:00:00  
Fac Copy Recd Date: 1999-07-29 00:00:00  
Gen Ship Date: 1999-07-26 00:00:00  
Trans 1 Recd Date: 1999-07-26 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1999-07-26 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 573594  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 16  
Waste Units Code: AD  
Waste Code List: D001

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 573595  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 9/4/1997 0:00:00  
Fac Copy Recd Date: 1997-09-04 00:00:00  
Gen Ship Date: 1997-08-29 00:00:00  
Trans 1 Recd Date: 1997-08-29 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1997-08-29 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

NAIC:

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Detail:

Manifest ID: 573595  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 18  
Waste Units Code: AD  
Waste Code List: D001

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1562  
Manifest ID: 708885  
Generator ID: MNR000051375  
Generator AI ID: 39796  
Transporter 1 ID: SCR000075150  
Transporter 1 AI ID: 60980  
Transporter 1 AI Name: Safety Kleen - Columbia SC



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Transporter 1 Address: 1301 Gervais St Ste 1900  
Transporter 1 City: Columbia  
Transporter 1 State: SC  
Transporter 1 ZIP: 29201-3335  
Transporter 2 ID: SCR000074591  
Transporter 2 AI ID: 59299  
Transporter 2 AI Name: Safety Kleen TG Inc  
Transporter 2 Address: 1301 Gervais St Ste 300  
Transporter 2 City: Columbia  
Transporter 2 State: SC  
Transporter 2 ZIP: 29201-3344  
TSD ID: ILD980613913  
TSD AI ID: 37858  
TSD AI Name: Safety Kleen Envirosystems Inc  
TSD Address: 633 E 138th St  
TSD City: Dolton  
TSD State: IL  
TSD Zip: 60419-1058  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2000-09-25 00:00:00  
Gen Ship Date: 2000-08-25 00:00:00  
Trans 1 Recd Date: 2000-08-25 00:00:00  
Trans 2 Recd Date: 8/29/2000 0:00:00  
Tsd Recd Date: 2000-09-07 00:00:00  
Comments: Not reported

**Contact:**

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Larry Wingo  
Contact Address: 3620 Hacks Cross Rd  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: lwwingo@fedex.com  
Contact Phone: 817-606-4516

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
Generator Contact: Timothy Jackson  
Contact Address: 3620 Hacks Cross Rd Bldg B 2nd Fl  
Contact City: Memphis  
Contact State: TN  
Contact Zip: 38125  
Contact Email: tjackson4@fedex.com  
Contact Phone: 901-434-8468

**NAIC:**

Generator AI ID: 39796  
Generator ID: MNR000051375  
Generator AI Name: Fedex DLH  
NAIC Code: 492110  
NAIC Desc: 492110 - Couriers and Express Delivery Services

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Detail:

Manifest ID: 708885  
Manifest Row: 1  
Haz Material Name: HAZ WASTE LIQ  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 4  
Waste Units Code: AD  
Waste Code List: D039

[Click this hyperlink](#) while viewing on your computer to access  
4 additional MN MANIFEST: record(s) in the EDR Site Report.

NPDES:

Name: FEDEX EXPRESS DHL  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 558111562  
Active: Active  
Activity ID: MNR053BJ5  
Preferred ID: Not reported  
Activity Sys ID: 39796  
Activity Type: Not reported  
Activity Type Code: Not reported  
Effective Start Date: 03/30/2021  
End Date: Not reported  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.8375  
Longitude Degree: -92.190711  
Location Description: Not reported  
New Imp Area: Not reported  
Old Imp Area: Not reported  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: FedEx Express  
Owner Organization Type: Not reported  
Permit Sys ID: 4459071  
Project Name: Not reported  
Project Size: Not reported  
Termination Date: Not reported  
Acres: 6  
Activity Description: Vechile/aircraft maintenance, fueling, de/anti-icing  
No Exposure: No  
One Mile: Yes  
Permit Type: Industrial Stormwater Permit  
Sector List: S  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

Name: FEDEX DLH  
Address: 4510 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 558111562  
Active: Inactive  
Activity ID: MNR0535FZ  
Preferred ID: Not reported  
Activity Sys ID: 39796  
Activity Type: Not reported  
Activity Type Code: Not reported  
Effective Start Date: 09/07/2010  
End Date: Not reported  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.833872  
Longitude Degree: -92.192127  
Location Description: Not reported  
New Imp Area: Not reported  
Old Imp Area: Not reported  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: FedEx Express  
Owner Organization Type: Not reported  
Permit Sys ID: 102029  
Project Name: Not reported  
Project Size: Not reported  
Termination Date: Not reported  
Acres: 1  
Activity Description: Air cargo transport  
No Exposure: No  
One Mile: Not reported  
Permit Type: Industrial Stormwater Permit  
Sector List: S  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Name: UPI ACCESS ROAD & AIRPARK B3 L4 DEVELOPM  
Address: 4510 AIRPORT RD  
City,State,Zip: DULUTH, MN 55811  
Active: N  
Activity ID: C00037981  
Preferred ID: Not reported  
Activity Sys ID: 14420337981  
Activity Type: Coverage Termination  
Activity Type Code: 56  
Effective Start Date: 05/15/2014  
End Date: 11/15/2014  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.835  
Longitude Degree: -92.168056  
Location Description: Not reported  
New Imp Area: 2.6  
Old Imp Area: 0.7  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Not reported  
Owner Organization Type: Not reported  
Permit Sys ID: 130725  
Project Name: UPI Access Road & Airpark B3 L4 developm  
Project Size: 3.9  
Termination Date: 08/15/2014  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: United Piping Inc

**TIER 2:**

Name: FEDERAL EXPRESS CORP - DLHR  
Address: 4510 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Year: 2011  
Facility Status: ACTIVE  
Facility Phone: Not reported  
Facility Email: Not reported  
Facility Web: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Facility MNCP:	Not reported
SIC:	4513
NAICS:	49211
Dunn Brad Num:	Not reported
Contact Type:	Not reported
Time Created:	Not reported
Signed By:	Not reported
Title:	Not reported
Signed Date:	Not reported
Attach Site Plan:	Not reported
Attach Coord Abbr:	Not reported
Attach Safeguard Info:	Not reported
Attach ERP:	Not reported
Hardcopy Attachments:	Not reported
Extension Site Plan:	Not reported
Extension Coord Abbr:	Not reported
Extension Safeguard Info:	Not reported
Extension ERP:	Not reported
Last Updated ERP:	Not reported
Last Tested ERP:	Not reported
Last Reviewed ERP:	Not reported
VZone Primary:	Not reported
VZone Secondary:	Not reported
Modified Date:	Not reported
FIPS County:	Not reported
Latitude/Longitude:	/
User Name:	Not reported
TRIFID:	Not reported
CMFCL Record ID:	Not reported
SEPC Approved Date ERP:	Not reported
Client System ID:	691250223
Own Country:	Not reported
Site Plan:	Not reported
Confidential Location:	Not reported
Status 302:	UNKNOWN
Status 312:	UNKNOWN
Emergency Contact Name1:	REESE RICHARDS
Emergency Contact Name2:	TIMOTHY JACKSON JR
Emergency Contact Name3:	Not reported
Emergency Contact Name4:	Not reported
Emergency Contact 24hr Phone1:	3202605599
Emergency Contact 24hr Phone2:	9012466017
Emergency Contact 24hr Phone3:	Not reported
Emergency Contact 24hr Phone4:	Not reported
Name:	FEDERAL EXPRESS CORP - DLHR
Address:	4510 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Facility Id:	10728
CAS Number:	N/A
Chemical Id:	7809
Chemical Name:	PROPYLENE GLYCOL - TYPE IV
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	No
Is Containing EHS:	No
How Chemical Is Stored:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: O  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: STORED OUTSIDE OF AIRCRAFT MAINTENANCE AREA  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Chemicals:

Facility Id: 10728  
Chemical Desc ID: 7809  
CAS No: N/A  
Chemical Name: PROPYLENE GLYCOL - TYPE IV  
EHS Name: Not reported  
Trade Secret: No  
Pure: No  
Mixture: Yes  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: Yes  
Pressure: No  
Reactivity: No  
Delayed Health Affects: Yes  
Immediate Health Affects: Yes  
Max Daily Amt: 04

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Avg Daily Amt: 04  
Onsite Days: 365  
Max Daily Amt Exact: 20000  
Avg Daily Amt Exact: 0  
Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No  
MSDS Attachment ID: No

Storage:

Storage Chem Desc ID: 7809  
Storage Container Type: O  
Storage Pressure: 1  
Storage Temp: 4  
Storage Location: STORED OUTSIDE OF AIRCRAFT MAINTENANCE AREA  
Storage ID: 39051  
Storage Confidential: No

Facility Id: 10728  
CAS Number: N/A  
Chemical Id: 7808  
Chemical Name: PROPYLENE GLYCOL - TYPE 1  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: O  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: STORED OUTSIDE OF AIRCRAFT MAINTENANCE AREA  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported

**Chemicals:**

Facility Id:	10728
Chemical Desc ID:	7808
CAS No:	N/A
Chemical Name:	PROPYLENE GLYCOL - TYPE 1
EHS Name:	Not reported
Trade Secret:	No
Pure:	No
Mixture:	Yes
Solid:	No
Liquid:	Yes
Gas:	No
Extremely Haz Substance:	No
Fire:	Yes
Pressure:	No
Reactivity:	No
Delayed Health Affects:	Yes
Immediate Health Affects:	Yes
Max Daily Amt:	04
Avg Daily Amt:	04
Onsite Days:	365
Max Daily Amt Exact:	40000
Avg Daily Amt Exact:	0
Modified Date:	Not reported
VZone Primary:	No
VZone Secondary:	No
EHS More Than TPQ:	No
MSDS Attachment ID:	No

**Storage:**

Storage Chem Desc ID:	7808
Storage Container Type:	O
Storage Pressure:	1
Storage Temp:	4
Storage Location:	STORED OUTSIDE OF AIRCRAFT MAINTENANCE AREA
Storage ID:	39046
Storage Confidential:	No

**Contact:**

Contact ID:	21456
Contact Type:	T2EC
Contact Name:	REESE RICH
Contact Title:	SENIOR MAN
Sort Order:	1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

Contact:

Contact ID: 21457  
Contact Type: T2EC  
Contact Name: TIMOTHY JA  
Contact Title: SR ENVIRON  
Sort Order: 2

WIMN:

Name: FEDEX EXPRESS DHL  
Address: 4510 AIRPORT APPROACH RD  
Address Description: 4510 Airport Approach Rd  
City,State,Zip: DULUTH, MN 55811-1562  
Status: Y  
Latitude: 46.837499999999999  
Longitude: -92.190710999999993  
Item ID: 39796-AISI0000039796  
AI ID: 39796  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 39796  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Multiple Programs  
Program List: HW; ST  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DP  
Method Description: Digitized - MPCA online map  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 03/30/2021  
Timestamp of Creation: 07/29/1999  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 04/19/2022

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FEDEX DLH (Continued)**

**1004737507**

User Name of Last Update:	smotton
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Multiple Activities
Activity List:	Hazardous Waste, Very small quantity generator; Industrial Stormwater
MPCA ID:	Multiple IDs
MPCA List:	MNR000051375; MNR0535FZ; MNR053BJ5
Program List:	Hazardous Waste; Stormwater
Classification:	Couriers and Express Delivery Services
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/39796">https://webapp.pca.state.mn.us/wimn/site/39796</a>
 WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.83345170
Longitude:	-92.19353544
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active

**A13  
 ENE  
 < 1/8  
 0.029 mi.  
 151 ft.**

**OLD MUNICIPAL HANGER  
 4525 AIRPORT APPROACH RD  
 DULUTH, MN 55811**

**MN LUST S106550403  
 MN SRS N/A  
 MN WIMN**

**Site 6 of 14 in cluster A**

**Relative:  
 Lower  
 Actual:  
 1417 ft.**

<b>LUST:</b>	
Name:	OLD MUNICIPAL HANGER
Address:	4525 AIRPORT APPROACH RD
City,State,Zip:	DULUTH, MN 55811
Item ID:	113636-AREA0000000001
MNPCA ID:	Not reported
AI ID:	113636
AI Name:	National Weather Service Station
Site Type:	Leak Site
Hydro:	Not reported
Project Manager:	Gary Zarling (former)
Latitude:	46.83775787
Longitude:	-92.18951829
Coord Collection Method:	Digitized - MPCA internal map
Migrated:	Not reported
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/113636">https://webapp.pca.state.mn.us/wimn/site/113636</a>
Leak Discovered:	10/12/1998
Application / Notification Received:	Not reported
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Owner:	National Weather Service
Site Closed:	09/13/2007
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
SI Type:	Underground Storage Tank System
Leak Reported:	10/13/1998

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLD MUNICIPAL HANGER (Continued)**

**S106550403**

SRS:

Name: OLD MUNICIPAL HANGER  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0012924  
Item ID: 113636-AREA0000000001  
AI ID: 113636  
AI Name: National Weather Service Station  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Gary Zarling (former)  
Latitude: 46.83775787000  
Longitude: -92.18951829000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/113636>  
Leak Discovered: 10/12/1998  
Leak Reported: 10/13/1998  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 09/13/2007  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19980001  
Act Desc: Leak Site Investigation  
Status: Closed

WIMN:

Name: LAKE SUPERIOR HELICOPTERS LLC  
Address: 4525 AIRPORT APPROACH RD  
Address Description: 4525 Airport Approach Rd  
City,State,Zip: DULUTH, MN 55811-1534  
Status: Y  
Latitude: 46.839080000000003  
Longitude: -92.190020000000004  
Item ID: 157456-AISI0000157456  
AI ID: 157456  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 157456  
Subject Item Category Description: Agency Interest

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLD MUNICIPAL HANGER (Continued)**

**S106550403**

Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DP
Method Description:	Digitized - MPCA online map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	Not reported
Timestamp of Creation:	02/22/2016
User Name of Creator:	kkircho
Timestamp of Last Update:	02/14/2017
User Name of Last Update:	RSP
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Hazardous Waste, Minimal quantity generator
Activity List:	Hazardous Waste, Minimal quantity generator
MPCA ID:	MNS000302496
MPCA List:	MNS000302496
Program List:	Hazardous Waste
Classification:	Nonscheduled Air Transportation; Tour Operators; Flight Training
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/157456">https://webapp.pca.state.mn.us/wimn/site/157456</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.83906000
Longitude:	-92.18990223
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Active
Name:	FEDERAL AVIATION ADMINISTRATION - DULUTH
Address:	4525 AIRPORT APPROACH RD
Address Description:	4525 Airport Approach Rd

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OLD MUNICIPAL HANGER (Continued)**

**S106550403**

City,State,Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.839060000000003
Longitude:	-92.189902200000006
Item ID:	103101-AISI0000103101
AI ID:	103101
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	103101
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Multiple Programs
Program List:	HW; SR; TL
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	03/24/2006
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	51069744
Activity:	Multiple Activities
Activity List:	Aboveground Tanks; Hazardous Waste, Minimal quantity generator; Petroleum Remediation, Leak Site
MPCA ID:	Multiple IDs
MPCA List:	LS0011496; LS0012506; MNS000171868; TS0055904; TS0121964
Program List:	Hazardous Waste; Investigation and Cleanup; Tanks
Classification:	Scheduled Air Transportation
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/103101">https://webapp.pca.state.mn.us/wimn/site/103101</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**OLD MUNICIPAL HANGER (Continued)**

**S106550403**

Latitude: 46.83906000  
 Longitude: -92.18990223  
 Activity: Multiple Activities  
 MPCA ID: Multiple Activities  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Active

**A14  
 ENE  
 < 1/8  
 0.029 mi.  
 151 ft.**

**FEDERAL AVIATION ADMINISTRATION - DULUTH  
 4525 AIRPORT APPROACH RD  
 DULUTH, MN 55811  
 Site 7 of 14 in cluster A**

**MN AST A100471544  
 N/A**

**Relative:  
 Lower  
 Actual:  
 1417 ft.**

**AST:**  
 Name: FEDERAL AVIATION ADMINISTRATION - DULUTH  
 Address: 4525 AIRPORT APPROACH RD  
 City,State,Zip: DULUTH, MN 55811  
 AI ID: 103101  
 Tank Site ID: TS0121964  
 Item ID: 103101-EQUI0000000001  
 SI Type: Aboveground Storage Tank  
 SI Design: 1001  
 SI Description: 500 gal/Diesel Fuel/Active  
 Substance: Diesel Fuel  
 Compartment Number: 1  
 Wall Type: Double  
 Overfill Prevention System: AST None  
 Install Date: 2000-01-08 00:00:00  
 Status Change Date: 2001-01-25 00:00:00  
 Material: Concrete  
 Tank Status: Active  
 Tanks Contractor: Not reported  
 Capacity Gallon: 500  
 Longitude: -92.23551093  
 Latitude: 46.84924589  
 Coord Collection Method: Public Land Survey-Two Quarter  
 Owner Name: Federal Aviation Administration(Faa)  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner Zip: Not reported  
 Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0121964>

**AST Prior to 08/2016:**  
 Program Interest ID: 229727  
 Facility Addr 2: Not reported  
 Address ID: 22700  
 MPCA Tank Number: 1001  
 Above/Under Ground: 1  
 Piping Cathodic Protection: Not reported  
 Tank Cathodic Protection: Not reported  
 Substance: 10  
 Client Tank Number: 1001  
 AST Base Material: 11  
 Piping Material: 1  
 Piping Material Desc: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

FEDERAL AVIATION ADMINISTRATION - DULUTH (Continued)

A100471544

Secondary Containment Tank: 1  
Secondary Containment Pipe: Not reported  
Tank Material: 2  
Tank Dispenser Code: Not reported  
Tank Status Code: 3  
Tank Capacity: 500  
Tank Registration Date: 01/25/2001 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 01/29/2001 16:03:07  
Date Last Updated: 01/22/2015 14:05:17  
Staff Id Who Did The Last Update: JHENRY  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 121964

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: JBRANDO  
Program Id: 229727  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Not reported  
TMSP Added: 04/10/2011 18:24:25  
Date Last Updated: 04/10/2011 18:24:25  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 20.61  
Longitude Degree: -92  
Longitude Minute: 11  
Longitude Second: 23.64  
Staff Id Who Did The Last Update: MAPTOOL  
Program Id: 229727  
Latlong ID: 155646  
Collection Date: 05/03/2011 07:03:42  
LatLong Description: Not reported  
TMSP Added: 03/22/2010 18:25:51  
Date Last Updated: 05/03/2011 07:03:42  
Coord Source Type: Not reported  
Org Name Source: Not reported

TabSite:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL AVIATION ADMINISTRATION - DULUTH (Continued)**

**A100471544**

Facility Code: 37  
Staff Id Who Did The Last Update: RSUCHAN  
Program Interest Id: 229727  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: Not reported  
AST Registration Date: 01/25/2001 00:00:00  
Date Added: 01/29/2001 15:58:47  
Date Last Updated: 05/05/2006 06:53:31  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

**Tank A:**

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 1001  
Above Or Underground: 1  
Tank Action ID: 863407  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/08/2000 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 01/29/2001 16:04:59  
Date Last Updated: 05/04/2002 09:58:29

**Tank C:**

MPCA Tank Number: 1001  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 10  
Tank Stored Product Desc: Not reported  
Compartment Cap: 500  
Heating: 1  
Other Desc: Not reported  
Date Added: 01/29/2001 16:03:07  
Date Last Updated: 05/04/2002 09:58:29

Name: FEDERAL AVIATION ADMINISTRATION - DULUTH  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
AI ID: 103101  
Tank Site ID: TS0055904  
Item ID: 103101-EQUI0000000002  
SI Type: Aboveground Storage Tank  
SI Design: 1001  
SI Description: 500 gal/Diesel Fuel/Active  
Substance: Diesel Fuel  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST None  
Install Date: 1996-06-01 00:00:00  
Status Change Date: 1998-01-08 00:00:00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL AVIATION ADMINISTRATION - DULUTH (Continued)**

**A100471544**

Material:	Not reported
Tank Status:	Active
Tanks Contractor:	Not reported
Capacity Gallon:	500
Longitude:	-92.23551093
Latitude:	46.84924589
Coord Collection Method:	Public Land Survey-Two Quarter
Owner Name:	Federal Aviation Administration(Faa)
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner Zip:	Not reported
Tanks URL:	<a href="https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0055904">https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0055904</a>
AST Prior to 08/2016:	
Program Interest ID:	211945
Facility Addr 2:	Not reported
Address ID:	22700
MPCA Tank Number:	1001
Above/Under Ground:	1
Piping Cathodic Protection:	Not reported
Tank Cathodic Protection:	Not reported
Substance:	10
Client Tank Number:	1001
AST Base Material:	9
Piping Material:	1
Piping Material Desc:	STEEL/IRON
Secondary Containment Tank:	Not reported
Secondary Containment Pipe:	Not reported
Tank Material:	5
Tank Dispenser Code:	Not reported
Tank Status Code:	3
Tank Capacity:	500
Tank Registration Date:	01/08/1998 00:00:00
Unregulated Tank Registration Date:	Not reported
Compartmental Tank Flag:	Not reported
Heating Product Flag:	Not reported
HazWaste Generator Id:	Not reported
Product Replaced Date:	Not reported
Sludge Disposal Facility:	Not reported
Comments:	Not reported
Date Added:	10/10/1999 10:57:44
Date Last Updated:	09/24/2008 14:12:07
Staff Id Who Did The Last Update:	RSUCHAN
In Compliance:	Y
Serial Number:	Not reported
Tank Dual Use:	N
Preferred ID:	55904
Program Interest ID:	211945
Facility Addr 2:	Not reported
Address ID:	22700
MPCA Tank Number:	1002
Above/Under Ground:	1
Piping Cathodic Protection:	Not reported
Tank Cathodic Protection:	Not reported
Substance:	10
Client Tank Number:	1002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL AVIATION ADMINISTRATION - DULUTH (Continued)**

**A100471544**

AST Base Material: 11  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: 1  
Secondary Containment Pipe: Not reported  
Tank Material: 8  
Tank Dispenser Code: Not reported  
Tank Status Code: 3  
Tank Capacity: 2000  
Tank Registration Date: 04/24/2000 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 05/03/2000 07:37:27  
Date Last Updated: 09/24/2008 14:12:07  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 55904

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: SFRYE  
Program Id: 211945  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Not reported  
TMSP Added: 03/10/2011 13:51:31  
Date Last Updated: 03/10/2011 13:51:31  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 20.61  
Longitude Degree: -92  
Longitude Minute: 11  
Longitude Second: 23.64  
Staff Id Who Did The Last Update: MAPTOOL  
Program Id: 211945  
Latlong ID: 155646  
Collection Date: 05/03/2011 07:03:42  
LatLong Description: Not reported  
TMSP Added: 03/22/2010 18:25:51  
Date Last Updated: 05/03/2011 07:03:42  
Coord Source Type: Not reported  
Org Name Source: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

FEDERAL AVIATION ADMINISTRATION - DULUTH (Continued)

A100471544

Tab site:

Facility Code: 14  
Staff Id Who Did The Last Update: SYS  
Program Interest Id: 211945  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: Not reported  
AST Registration Date: 01/08/1998 00:00:00  
Date Added: 07/19/1999 09:40:08  
Date Last Updated: 05/23/2003 09:21:05  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

Tank A:

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 1001  
Above Or Underground: 1  
Tank Action ID: 826384  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 06/01/1996 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:26  
Date Last Updated: 05/04/2002 08:55:53

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 1002  
Above Or Underground: 1  
Tank Action ID: 858162  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 06/01/1998 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:48  
Date Last Updated: 05/04/2002 08:55:53

Tank C:

MPCA Tank Number: 1002  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 10  
Tank Stored Product Desc: Not reported  
Compartment Cap: 2000  
Heating: 1  
Other Desc: Not reported  
Date Added: 05/03/2000 07:37:27  
Date Last Updated: 05/04/2002 08:55:53

MPCA Tank Number: 1001

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FEDERAL AVIATION ADMINISTRATION - DULUTH (Continued)**

**A100471544**

Above Or Underground: 1  
 Compartment Number: 1  
 Tank Stored Product Code: 10  
 Tank Stored Product Desc: DIESEL  
 Compartment Cap: 500  
 Heating: 1  
 Other Desc: Not reported  
 Date Added: 10/10/1999 10:59:00  
 Date Last Updated: 05/04/2002 08:55:53

Name: FEDERAL AVIATION ADMINISTRATION - DULUTH  
 Address: 4525 AIRPORT APPROACH RD  
 City,State,Zip: DULUTH, MN 55811  
 AI ID: 103101  
 Tank Site ID: TS0055904  
 Item ID: 103101-EQUI0000000003  
 SI Type: Aboveground Storage Tank  
 SI Design: 1002  
 SI Description: 2,000 gal/Diesel Fuel/Active  
 Substance: Diesel Fuel  
 Compartment Number: 1  
 Wall Type: Double  
 Overfill Prevention System: AST Level 1 (High level alarm only)  
 Install Date: 1998-06-01 00:00:00  
 Status Change Date: 2000-04-24 00:00:00  
 Material: Carbon steel  
 Tank Status: Active  
 Tanks Contractor: Not reported  
 Capacity Gallon: 2000  
 Longitude: -92.23551093  
 Latitude: 46.84924589  
 Coord Collection Method: Public Land Survey-Two Quarter  
 Owner Name: Federal Aviation Administration(Faa)  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner Zip: Not reported  
 Tanks URL: https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0055904

**A15**  
**ENE**  
**< 1/8**  
**0.029 mi.**  
**151 ft.**

**DULUTH AIR TRAFFIC CONTROL TOWER**  
**4525 AIRPORT APPROACH ROAD**  
**DULUTH, MN 55811**  
**Site 8 of 14 in cluster A**

**MN LUST S108072648**  
**MN LAST N/A**  
**MN SRS**  
**MN Financial Assurance**  
**MN TIER 2**  
**MN WIMN**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**1417 ft.**

Name: NOAA STATION - DULUTH INT'L AIRPORT  
 Address: 4525 AIRPORT APPROACH RD  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 113636-AREA0000000002  
 MNPCA ID: 222219  
 AI ID: 113636  
 AI Name: National Weather Service Station  
 Site Type: Leak Site  
 Hydro: Not reported  
 Project Manager: Bonnie Mallory (no longer at MPCA)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Latitude: 46.8390529  
Longitude: -92.19014668  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/113636>  
Leak Discovered: 10/01/1996  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: National Weather Service  
Site Closed: 07/21/1997  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
SI Type: Underground Storage Tank System  
Leak Reported: 10/01/1996

0816:  
Program IN: 222219  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 9696  
Township Name: Whiteface Reservoir  
Addr ID: 22700  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 07/16/1997 10:10:06  
Interest End Date: 03/10/2011 11:53:50  
Source: CORE  
Site ID: 217550  
Leak Site: 1  
File Archive Box: 25  
File Archive Lot: 00/298  
Soil Digout Date: 09/09/1996  
Cubic Yards Excavated: 0  
Cond Closure Date: Not reported  
Complete Site Closure Date: 07/21/1997 00:00:00  
Contaminated Soils Remaining: Y  
Enforcement Action Begin Date: 10/09/1996  
Last Trust Eligible: N  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 10/01/1996  
Leak Reported Date: 10/01/1996  
Std Letter Response Date: 10/22/1996  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:50  
TMSP Last Update: 08/19/2014 14:30:34  
Staff ID Last Update: DBOETTC  
Release From LAST: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Release From LUST: N  
Tank Registration Status Code: U  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

GW Info:

MN PCA ID: 222219  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: N  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:34  
TMSP Last Update: 11/04/2003 12:57:08  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

Prodrel:

MN PCA ID: 222219  
Prod Released Sequence Id: 323493  
Leak Product: 5  
Tmsp Added: 12/04/1999 14:04:35  
Tmsp Last\_updt: 05/04/2002 09:33:04  
Staff Id Last Updt: TANKS

LAST:

Name: DULUTH INTERNATIONAL AIRPORT  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Item ID: 103101-AREA0000000004  
AI ID: 103101  
MN PCA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

AI Name: Federal Aviation Administration - Duluth  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83920712  
Longitude: -92.19013274  
Corrd Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/103101>  
Leak Discovered: 05/11/1998  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 12/11/1998  
Owner: Federal Aviation Administration(Faa)  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
SI Type: Aboveground Storage Tank  
Leak Reported: 05/14/1998

Name: OLD TERMINAL  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Item ID: 103101-AREA0000000005  
AI ID: 103101  
MN PCA ID: Not reported  
AI Name: Federal Aviation Administration - Duluth  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Gary Zarling (former)  
Latitude: 46.83906235  
Longitude: -92.1899062  
Corrd Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/103101>  
Leak Discovered: 10/12/1998  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 03/02/2007  
Owner: Federal Aviation Administration(Faa)  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
SI Type: Aboveground Storage Tank  
Leak Reported: 10/13/1998

**SRS:**

Name: NOAA STATION - DULUTH INT'L AIRPORT  
Address: 4525 AIRPORT APPROACH RD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0009696  
Item ID: 113636-AREA0000000002  
AI ID: 113636  
AI Name: National Weather Service Station  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Bonnie Mallory (no longer at MPCA)  
Latitude: 46.83905290000  
Longitude: -92.19014668000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/113636>  
Leak Discovered: 10/01/1996  
Leak Reported: 10/01/1996  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 07/21/1997  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19960001  
Act Desc: Leak Site Investigation  
Status: Closed

Name: DULUTH INTERNATIONAL AIRPORT  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0011496  
Item ID: 103101-AREA0000000004  
AI ID: 103101  
AI Name: Federal Aviation Administration - Duluth  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83920712000  
Longitude: -92.19013274000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/103101>  
Leak Discovered: 05/11/1998  
Leak Reported: 05/14/1998  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	12/11/1998
Owner:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
Acreage:	0.00000000
BPET:	Not reported
BVIC:	Not reported
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW19980002
Act Desc:	Leak Site Investigation
Status:	Closed
Name:	OLD TERMINAL
Address:	4525 AIRPORT APPROACH RD
City,State,Zip:	DULUTH, MN 55811
Facility ID:	LS0012506
Item ID:	103101-AREA0000000005
AI ID:	103101
AI Name:	Federal Aviation Administration - Duluth
Facility Type:	LEAK
Hydro:	Not reported
Project Manager:	Gary Zarling (former)
Latitude:	46.83906235000
Longitude:	-92.18990620000
Coord Collection Method:	Digitized - MPCA internal map
Migrated:	Not reported
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/103101">https://webapp.pca.state.mn.us/wimn/site/103101</a>
Leak Discovered:	10/12/1998
Leak Reported:	10/13/1998
Application / Notification Received:	Not reported
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	03/02/2007
Owner:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
Acreage:	0.00000000
BPET:	Not reported
BVIC:	Not reported
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Activity ID: SIW19980001  
Act Desc: Leak Site Investigation  
Status: Closed

MN Financial Assurance 1:

PROGRAM ID: 194647  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Tank site  
ADDR ID: 22700  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 5259  
Interest Start Date: 07/23/1992  
Interest End Date: 03/08/2011  
Activity Flag: N  
TMSP Added: 08/30/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 217550  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 194647  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site  
Facility Addr 2: Duluth Intl Airport  
ADDR ID: 193450  
Interest Telephone: 2187227982  
Preferred ID: 5259  
Interest Start Date: 07/23/1992  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 07/23/1992  
TMSP Last Update: 08/30/2006 07:29:42  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 211945  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Tank site  
ADDR ID: 22700  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 55904  
Interest Start Date: 07/19/1999  
Interest End Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Activity Flag: Y  
TMSP Added: 03/24/2006  
TMSP Last Update: 03/08/2011 09:33:53  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 182875  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 211945  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site  
ADDR ID: 210367  
Interest Telephone: Not reported  
Preferred ID: 55904  
Interest Start Date: 07/19/1999  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 07/19/1999  
TMSP Last Update: 03/24/2006 12:22:11  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 222219  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 22700  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 9696  
Interest Start Date: 07/16/1997  
Interest End Date: 03/10/2011  
Activity Flag: N  
TMSP Added: 11/29/2006  
TMSP Last Update: 11/10/2014 08:17:06  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 217550  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 222219  
Township Name: Not reported  
Region: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Interest Type: Deleted Leak Site  
ADDR ID: 210367  
Interest Telephone: Not reported  
Preferred ID: 9696  
Interest Start Date: 07/16/1997  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/29/2006 07:23:52  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 223907  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 22700  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 11496  
Interest Start Date: 09/03/1999  
Interest End Date: 03/08/2011  
Activity Flag: N  
TMSP Added: 11/30/2006  
TMSP Last Update: 11/10/2014 08:17:06  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 182875  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 223907  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 210367  
Interest Telephone: Not reported  
Preferred ID: 11496  
Interest Start Date: 09/03/1999  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/30/2006 07:15:49  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

FIPS County Code: 137  
Comments: Not reported  
  
PROGRAM ID: 224893  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 22700  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 12506  
Interest Start Date: 09/03/1999  
Interest End Date: 03/08/2011  
Activity Flag: N  
TMSP Added: 03/24/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 182875  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 224893  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 210367  
Interest Telephone: Not reported  
Preferred ID: 12506  
Interest Start Date: 09/03/1999  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 03/24/2006 13:06:13  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 224893  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 21.04877072  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 23.44711695  
Collection Date: 03/06/2007 00:00:00  
Lat/Long Description: Site Center  
TMSP Added: 03/06/2007 14:51:25

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

TMSP Last Update: 05/03/2011 07:06:06  
Staff ID Last Update: GZARLIN  
Coord Source Type: 2  
Org Name Source: Gary Zarling  
Coord Coll Meth: I1  
Map Scale Code: B  
Source: TALES  
Site ID: 182875  
Spatial ID: 51071172

Program Id: 224893  
Lat/Long ID: 155646  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 20.61  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 23.64  
Collection Date: 05/03/2011 07:03:42  
Lat/Long Description: Not reported  
TMSP Added: 03/22/2010 18:25:51  
TMSP Last Update: 05/03/2011 07:03:42  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 182875  
Spatial ID: 51071172

Staff Name:

Program Id: 224893  
Staff Sequence ID: 30144  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 07/31/2002 07:37:02  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3451

Program Id: 224893  
Staff Sequence ID: 8634  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:05  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3433

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH AIR TRAFFIC CONTROL TOWER (Continued)

S108072648

Latitude Longitude:  
Program Id: 211945  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 03/10/2011 13:51:31  
TMSP Last Update: 03/10/2011 13:51:31  
Staff ID Last Update: SFRYE  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 182875  
Spatial ID: 51069609

Program Id: 211945  
Lat/Long ID: 155646  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 20.61  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 23.64  
Collection Date: 05/03/2011 07:03:42  
Lat/Long Description: Not reported  
TMSP Added: 03/22/2010 18:25:51  
TMSP Last Update: 05/03/2011 07:03:42  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 182875  
Spatial ID: 51069609

Tab Site:  
Program Id: 211945  
Facility Code: 14  
Above or Under Code: 1  
Indian Reservation: N  
Ust Registration Date: Not reported  
Ast Registration Date: 01/08/1998 00:00:00  
TMSP Added: 07/19/1999 09:40:08  
TMSP Last Update: 05/23/2003 09:21:05  
Staff ID Last Update: SYS  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Latitude Longitude:  
Program Id: 194647  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 03/08/2011 09:37:13  
TMSP Last Update: 03/10/2011 12:00:59  
Staff ID Last Update: SFRYE  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 217550  
Spatial ID: 51378942

Program Id: 194647  
Lat/Long ID: 169720  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 20.61  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 23.64  
Collection Date: 05/03/2011 07:03:27  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 19:01:22  
TMSP Last Update: 05/03/2011 07:03:29  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 217550  
Spatial ID: 51378942

Tab Site:  
Program Id: 194647  
Facility Code: 14  
Above or Under Code: 2  
Indian Reservation: N  
Ust Registration Date: 06/05/1986 00:00:00  
Ast Registration Date: Not reported  
TMSP Added: 07/23/1992 19:11:05  
TMSP Last Update: 05/23/2003 09:21:01  
Staff ID Last Update: SYS  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH AIR TRAFFIC CONTROL TOWER (Continued)

S108072648

Latitude Longitude:  
Program Id: 222219  
Lat/Long ID: 8140  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 4.225  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 31.0567  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:11  
TMSP Last Update: 03/08/2011 13:50:30  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 217550  
Spatial ID: 51829956

Program Id: 222219  
Lat/Long ID: 169720  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 20.61  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 23.64  
Collection Date: 05/03/2011 07:03:27  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 19:01:22  
TMSP Last Update: 05/03/2011 07:03:29  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 217550  
Spatial ID: 51829956

Staff Name:  
Program Id: 222219  
Staff Sequence ID: 21397  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:18  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 4126

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Program Id: 222219  
Staff Sequence ID: 6137  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:02  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 4114

Latitude Longitude:

Program Id: 223907  
Lat/Long ID: 9634  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 4.225  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 31.0567  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:13  
TMSP Last Update: 03/09/2011 07:42:59  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 182875  
Spatial ID: 51834114

Program Id: 223907  
Lat/Long ID: 155646  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 20.61  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 23.64  
Collection Date: 05/03/2011 07:03:42  
Lat/Long Description: Not reported  
TMSP Added: 03/22/2010 18:25:51  
TMSP Last Update: 05/03/2011 07:03:42  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 182875  
Spatial ID: 51834114

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH AIR TRAFFIC CONTROL TOWER (Continued)

S108072648

Staff Name:  
Program Id: 223907  
Staff Sequence ID: 22998  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:19  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

Program Id: 223907  
Staff Sequence ID: 7703  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:04  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3433

Latitude Longitude:  
Program Id: 229727  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 04/10/2011 18:24:25  
TMSP Last Update: 04/10/2011 18:24:25  
Staff ID Last Update: JBRANDO  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 182875  
Spatial ID: 51069745

Program Id: 229727  
Lat/Long ID: 155646  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 20.61  
Longitude Degrees: -92

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Longitude Minutes: 11  
Longitude Seconds: 23.64  
Collection Date: 05/03/2011 07:03:42  
Lat/Long Description: Not reported  
TMSP Added: 03/22/2010 18:25:51  
TMSP Last Update: 05/03/2011 07:03:42  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 182875  
Spatial ID: 51069745

Tab Site:

Program Id: 229727  
Facility Code: 37  
Above or Under Code: 1  
Indian Reservation: N  
Ust Registration Date: Not reported  
Ast Registration Date: 01/25/2001 00:00:00  
TMSP Added: 01/29/2001 15:58:47  
TMSP Last Update: 05/05/2006 06:53:31  
Staff ID Last Update: RSUCHAN  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

TIER 2:

Name: DULUTH AIR TRAFFIC CONTROL TOWER  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Year: 2005  
Facility Status: ACTIVE  
Facility Phone: 9529979201  
Facility Email: ANDY.GOMEZ@FAA.GOV  
Facility Web: Not reported  
Facility MNCP: Not reported  
SIC Code: 9621  
NAICS: Not reported  
Dunn Brad Num: Not reported  
Owner Name: FEDERAL AVIATION ADMIN  
Owner Phone: 9529979240  
Owner Address: 14800 GALAXIE AVE. S.,SUITE 300  
Owner City: APPLE VALLEY  
Owner State: MN  
Owner Zip: 55124  
Mailing Name: DULUTH AIR TRAFFIC CONTROL TOWER  
Mailing Street: 14800 GALAXIE AVENUE S, SUITE 300  
Mailing PO BOX: Not reported  
Mailing City/State/Zip: APPLE VALLEY, MN 55124  
Mailing Attn: JERRY DAILY  
Contact Type: Not reported  
Time Created: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Signed By: Alex Gintner  
Title: Environ Protect Spclst  
Signed Date: 2006-05-19  
Attach Site Plan: No  
Attach Coord Abbr: Yes  
Attach Safeguard Info: No  
Attach ERP: No  
Hardcopy Attachments: No  
Extension Site Plan: Not reported  
Extension Coord Abbr: Not reported  
Extension Safeguard Info: Not reported  
Extension ERP: Not reported  
Last Updated ERP: Not reported  
Last Tested ERP: Not reported  
Last Reviewed ERP: Not reported  
VZone Primary: Not reported  
VZone Secondary: Not reported  
Modified Date: 2006-05-19  
FIPS County: 27069  
Latitude/Longitude: 46.8349990844727/92.1920013427734  
User Name: fedaviatadmin  
TRIFID: Not reported  
CMFCL Record ID: Not reported  
SEPC Approved Date ERP: Not reported  
Client System ID: 691250216  
Own Country: US  
Site Plan: Not reported  
Confidential Location: Not reported  
Status 302: Not reported  
Status 312: Not reported  
Emergency Contact Name1: Not reported  
Emergency Contact Name2: Not reported  
Emergency Contact Name3: Not reported  
Emergency Contact Name4: Not reported  
Emergency Contact 24hr Phone1: Not reported  
Emergency Contact 24hr Phone2: Not reported  
Emergency Contact 24hr Phone3: Not reported  
Emergency Contact 24hr Phone4: Not reported

Name: DULUTH AIR TRAFFIC CONTROL TOWER  
Address: 4525 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: DULUTH AIR TRAFFIC CONTROL TOWER  
Address: 4525 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: DULUTH AIR TRAFFIC CONTROL TOWER  
Address: 4525 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
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City,State,Zip: DULUTH, MN 55811  
Name: DULUTH AIR TRAFFIC CONTROL TOWER  
Address: 4525 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: DULUTH AIR TRAFFIC CONTROL TOWER  
Address: 4525 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: DULUTH AIR TRAFFIC CONTROL TOWER  
Address: 4525 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Name:	DULUTH AIR TRAFFIC CONTROL TOWER
Address:	4525 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Name:	DULUTH AIR TRAFFIC CONTROL TOWER
Address:	4525 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Name:	DULUTH AIR TRAFFIC CONTROL TOWER
Address:	4525 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Facility Id:	10721
CAS Number:	Not reported
Chemical Id:	Not reported
Chemical Name:	Not reported
EHS Name:	Not reported
Is EHS:	Not reported
Is EHS More than TPQ:	Not reported
Is Containing EHS:	Not reported
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	Not reported
Avg Daily Amt Code:	Not reported
Storage Container Type:	Not reported
Storage Pressure Class:	Not reported
Storage Temperature Class:	Not reported
Storage Location:	Not reported
Is Storage Confidential Location:	Not reported
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Facility Id: 10721  
CAS Number: Not reported  
Chemical Id: Not reported  
Chemical Name: Not reported  
EHS Name: Not reported  
Is EHS: Not reported  
Is EHS More than TPQ: Not reported  
Is Containing EHS: Not reported  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: Not reported  
Avg Daily Amt Code: Not reported  
Storage Container Type: Not reported  
Storage Pressure Class: Not reported  
Storage Temperature Class: Not reported  
Storage Location: Not reported  
Is Storage Confidential Location: Not reported  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10721  
CAS Number: 68476346  
Chemical Id: 24860  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Max Daily Amt Code: 4  
Avg Daily Amt Code: 3  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Chemicals:

Facility Id: 10721  
Chemical Desc ID: 24860  
CAS No: 68476346  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Trade Secret: No  
Pure: Yes  
Mixture: No  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: Yes  
Pressure: No  
Reactivity: No  
Delayed Health Affects: No  
Immediate Health Affects: Yes  
Max Daily Amt: 04



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Avg Daily Amt: 03  
Onsite Days: 365  
Max Daily Amt Exact: 14600  
Avg Daily Amt Exact: 0  
Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No  
MSDS Attachment ID: No

Storage:

Storage Chem Desc ID: 24860  
Storage Container Type: A  
Storage Pressure: 1  
Storage Temp: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Storage ID: 124306  
Storage Confidential: No

Facility Id: 10721  
CAS Number: 68476346  
Chemical Id: 24860  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 3  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported

Chemicals:

Facility Id:	10721
Chemical Desc ID:	24860
CAS No:	68476346
Chemical Name:	#2 DIESEL FUEL
EHS Name:	Not reported
Trade Secret:	No
Pure:	Yes
Mixture:	No
Solid:	No
Liquid:	Yes
Gas:	No
Extremely Haz Substance:	No
Fire:	Yes
Pressure:	No
Reactivity:	No
Delayed Health Affects:	No
Immediate Health Affects:	Yes
Max Daily Amt:	04
Avg Daily Amt:	03
Onsite Days:	365
Max Daily Amt Exact:	14600
Avg Daily Amt Exact:	0
Modified Date:	Not reported
VZone Primary:	No
VZone Secondary:	No
EHS More Than TPQ:	No
MSDS Attachment ID:	No

Storage:

Storage Chem Desc ID:	24860
Storage Container Type:	A
Storage Pressure:	1
Storage Temp:	4
Storage Location:	NEXT TO AIR TRAFFIC CONTROL TOWER
Storage ID:	124306
Storage Confidential:	No

Facility Id:	10721
CAS Number:	68476346
Chemical Id:	24860
Chemical Name:	#2 DIESEL FUEL
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH AIR TRAFFIC CONTROL TOWER (Continued)

S108072648

Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 3  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Chemicals:

Facility Id: 10721  
Chemical Desc ID: 24860  
CAS No: 68476346  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Trade Secret: No  
Pure: Yes  
Mixture: No  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: Yes  
Pressure: No  
Reactivity: No  
Delayed Health Affects: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Immediate Health Affects: Yes  
Max Daily Amt: 04  
Avg Daily Amt: 03  
Onsite Days: 365  
Max Daily Amt Exact: 14600  
Avg Daily Amt Exact: 0  
Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No  
MSDS Attachment ID: No

Storage:  
Storage Chem Desc ID: 24860  
Storage Container Type: A  
Storage Pressure: 1  
Storage Temp: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Storage ID: 124306  
Storage Confidential: No

Facility Id: 10721  
CAS Number: 68476346  
Chemical Id: 24860  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 3  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported

Chemicals:

Facility Id:	10721
Chemical Desc ID:	24860
CAS No:	68476346
Chemical Name:	#2 DIESEL FUEL
EHS Name:	Not reported
Trade Secret:	No
Pure:	Yes
Mixture:	No
Solid:	No
Liquid:	Yes
Gas:	No
Extremely Haz Substance:	No
Fire:	Yes
Pressure:	No
Reactivity:	No
Delayed Health Affects:	No
Immediate Health Affects:	Yes
Max Daily Amt:	04
Avg Daily Amt:	03
Onsite Days:	365
Max Daily Amt Exact:	14600
Avg Daily Amt Exact:	0
Modified Date:	Not reported
VZone Primary:	No
VZone Secondary:	No
EHS More Than TPQ:	No
MSDS Attachment ID:	No

Storage:

Storage Chem Desc ID:	24860
Storage Container Type:	A
Storage Pressure:	1
Storage Temp:	4
Storage Location:	NEXT TO AIR TRAFFIC CONTROL TOWER
Storage ID:	124306
Storage Confidential:	No

Facility Id:	10721
CAS Number:	68476346
Chemical Id:	24860
Chemical Name:	#2 DIESEL FUEL
EHS Name:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH AIR TRAFFIC CONTROL TOWER (Continued)

S108072648

Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 3  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Chemicals:  
Facility Id: 10721  
Chemical Desc ID: 24860  
CAS No: 68476346  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Trade Secret: No  
Pure: Yes  
Mixture: No  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: Yes  
Pressure: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Reactivity: No  
Delayed Health Affects: No  
Immediate Health Affects: Yes  
Max Daily Amt: 04  
Avg Daily Amt: 03  
Onsite Days: 365  
Max Daily Amt Exact: 14600  
Avg Daily Amt Exact: 0  
Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No  
MSDS Attachment ID: No

Storage:

Storage Chem Desc ID: 24860  
Storage Container Type: A  
Storage Pressure: 1  
Storage Temp: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Storage ID: 124306  
Storage Confidential: No

Facility Id: 10721  
CAS Number: 68476346  
Chemical Id: 24860  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 3  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

**Chemicals:**

Facility Id: 10721  
Chemical Desc ID: 24860  
CAS No: 68476346  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Trade Secret: No  
Pure: Yes  
Mixture: No  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: Yes  
Pressure: No  
Reactivity: No  
Delayed Health Affects: No  
Immediate Health Affects: Yes  
Max Daily Amt: 04  
Avg Daily Amt: 03  
Onsite Days: 365  
Max Daily Amt Exact: 14600  
Avg Daily Amt Exact: 0  
Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No  
MSDS Attachment ID: No

**Storage:**

Storage Chem Desc ID: 24860  
Storage Container Type: A  
Storage Pressure: 1  
Storage Temp: 4  
Storage Location: NEXT TO AIR TRAFFIC CONTROL TOWER  
Storage ID: 124306  
Storage Confidential: No

Facility Id: 10721  
CAS Number: 68476346  
Chemical Id: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH AIR TRAFFIC CONTROL TOWER (Continued)

S108072648

Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 1  
Storage Container Type: Above ground tank  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10721  
CAS Number: 68476346  
Chemical Id: Not reported  
Chemical Name: #2 DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 1  
Storage Container Type: Above ground tank

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Storage Pressure Class:	Ambient pressure
Storage Temperature Class:	Ambient temperature
Storage Location:	Not reported
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported

Contact:  
Contact ID: 21442  
Contact Type: T2EC  
Contact Name: FAA 24 ho  
Contact Title: 24 hour no  
Sort Order: 1

Contact:  
Contact ID: 21443  
Contact Type: T2EC  
Contact Name: Alex Gintn  
Contact Title: Env Prot S  
Sort Order: 2

[Click this hyperlink](#) while viewing on your computer to access  
17 additional MN\_TIER2: record(s) in the EDR Site Report.

WIMN:  
Name:

NATIONAL WEATHER SERVICE STATION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

Address: 4525 AIRPORT APPROACH RD  
Address Description: 4525 Airport Approach Rd  
City,State,Zip: DULUTH, MN 55811  
Status: N  
Latitude: 46.839060000000003  
Longitude: -92.189902200000006  
Item ID: 113636-AISI0000113636  
AI ID: 113636  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 113636  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Multiple Programs  
Program List: SR; TL  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DM  
Method Description: Digitized - MPCA internal map  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 09/27/2015  
Timestamp of Creation: 08/30/2006  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 09/27/2015  
User Name of Last Update: geo\_nc  
Status Date: 03/10/2011  
The Delta Spatial ID: 51378941  
Activity: Multiple Activities  
Activity List: Petroleum Remediation, Leak Site; Underground Tanks  
MPCA ID: Multiple IDs  
MPCA List: LS0009696; LS0012924; TS0005259  
Program List: Investigation and Cleanup; Tanks  
Classification: Not reported  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/113636>

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH AIR TRAFFIC CONTROL TOWER (Continued)**

**S108072648**

WIMN Detail as of Aug 2016:

Legislative District:	3B
Latitude:	46.83906000
Longitude:	-92.18990223
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive

**A16**  
**ENE**  
 < 1/8  
 0.029 mi.  
 151 ft.

**LAKE SUPERIOR HELICOPTERS LLC**  
**4525 AIRPORT APPROACH RD**  
**DULUTH, MN 55811**  
 Site 9 of 14 in cluster A

**RCRA-VSQG** 1018276505  
**FINDS** MNS000302496  
**ECHO**

**Relative:**  
**Lower**  
**Actual:**  
 1417 ft.

<b>RCRA Listings:</b>	
Date Form Received by Agency:	20190111
Handler Name:	LAKE SUPERIOR HELICOPTERS LLC
Handler Address:	4525 AIRPORT APPROACH RD
Handler City,State,Zip:	DULUTH, MN 55811-1534
EPA ID:	MNS000302496
Contact Name:	ERIC F MONSON
Contact Address:	4525 AIRPORT APPROACH RD
Contact City,State,Zip:	DULUTH, MN 55811-1534
Contact Telephone:	218-461-2857
Contact Fax:	Not reported
Contact Email:	HELICOPTERS@HELI-CO.COM
Contact Title:	PRESIDENT
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4525 AIRPORT APPROACH RD
Mailing City,State,Zip:	DULUTH, MN 55811-1534
Owner Name:	Not reported
Owner Type:	Not reported
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LAKE SUPERIOR HELICOPTERS LLC (Continued)**

**1018276505**

Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200428
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20160222
Handler Name:	LAKE SUPERIOR HELICOPTERS LLC
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	No
Non Storage Recycler Activity:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LAKE SUPERIOR HELICOPTERS LLC (Continued)**

**1018276505**

Electronic Manifest Broker: Not reported

Receive Date: 20190111  
Handler Name: LAKE SUPERIOR HELICOPTERS LLC  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 56152  
NAICS Description: TOUR OPERATORS

NAICS Code: 611512  
NAICS Description: FLIGHT TRAINING

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110068589780

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1018276505  
Registry ID: 110068589780  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110068589780>  
Name: LAKE SUPERIOR HELICOPTERS LLC  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A17  
ENE  
< 1/8  
0.029 mi.  
151 ft.

**NATIONAL WEATHER SERVICE STATION**  
**4525 AIRPORT APPROACH RD**  
**DULUTH, MN 55811**

**MN UST**    **U003185931**  
**N/A**

**Site 10 of 14 in cluster A**

**Relative:**  
**Lower**

UST:

**Actual:**  
**1417 ft.**

Name: NATIONAL WEATHER SERVICE STATION  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Item Compartment ID: 113636-EQUI0000000001-1  
AI ID: 113636  
Tank Site ID: TS0005259  
Item ID: 113636-EQUI0000000001  
SI Type: Underground Storage Tank System  
SI Design: 2  
SI Description: 8,000 gal/Fuel Oil/Removed  
Compartment Number: 1  
Substance: Fuel Oil  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1998-10-12 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1998-10-12 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 8000  
Longitude: -92.19313649  
Latitude: 46.83394975  
Coord Collection Method: Address Matching House Number  
Owner: National Weather Service  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner Zip: Not reported  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005259>  
Name: NATIONAL WEATHER SERVICE STATION  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Item Compartment ID: 113636-EQUI0000000002-1  
AI ID: 113636  
Tank Site ID: TS0005259  
Item ID: 113636-EQUI0000000002  
SI Type: Underground Storage Tank System  
SI Design: 1  
SI Description: 500 gal/Diesel/Removed  
Compartment Number: 1  
Substance: Diesel  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1975-12-25 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1996-09-09 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 500  
Longitude: -92.23551093  
Latitude: 46.84924589  
Coord Collection Method: Public Land Survey-Two Quarter

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL WEATHER SERVICE STATION (Continued)**

**U003185931**

Owner: National Weather Service  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner Zip: Not reported  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005259>  
Name: NATIONAL WEATHER SERVICE STATION  
Address: 4525 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Item Compartment ID: 113636-EQUI0000000003-1  
AI ID: 113636  
Tank Site ID: TS0005259  
Item ID: 113636-EQUI0000000003  
SI Type: Underground Storage Tank System  
SI Design: 3  
SI Description: 3,000 gal/Fuel Oil/Removed  
Compartment Number: 1  
Substance: Fuel Oil  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1998-10-12 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1998-10-12 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 3000  
Longitude: -92.23551093  
Latitude: 46.84924589  
Coord Collection Method: Public Land Survey-Two Quarter  
Owner: National Weather Service  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner Zip: Not reported  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005259>

**UST Prior to 08/2016:**

Envid: U003185931  
Program Interest Id: 194647  
Facility Address 2: Not reported  
Address Id: 22700  
MPCA Tank Number: 002  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 5  
Substance: 13  
Client Tank Number: 002  
AST Base Material: Not reported  
Piping Material: 2  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: 2  
Tank Status Code: 5  
Tank Capacity: 8000  
Tank Registration Date: 11/09/1998 00:00:00  
Unregulated Tank Registration Date: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL WEATHER SERVICE STATION (Continued)**

**U003185931**

Compartmental Tank Flag: Not reported  
Heating Product Flag: Y  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:56:47  
Date Last Updated: 01/07/2013 10:42:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 5259

Envid: U003185931  
Program Interest Id: 194647  
Facility Address 2: Not reported  
Address Id: 22700  
MPCA Tank Number: 003  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 5  
Substance: 13  
Client Tank Number: 003  
AST Base Material: Not reported  
Piping Material: 10  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: 2  
Tank Status Code: 5  
Tank Capacity: 3000  
Tank Registration Date: 11/09/1998 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Y  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:10  
Date Last Updated: 01/07/2013 10:42:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 5259

Envid: U003185931  
Program Interest Id: 194647  
Facility Address 2: Not reported  
Address Id: 22700  
MPCA Tank Number: 001  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 5  
Substance: 10  
Client Tank Number: 001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL WEATHER SERVICE STATION (Continued)**

**U003185931**

AST Base Material: Not reported  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: 1  
Tank Status Code: 5  
Tank Capacity: 500  
Tank Registration Date: 06/05/1986 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: U  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:17  
Date Last Updated: 01/07/2013 10:42:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: N  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 5259

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: SFRYE  
Program Id: 194647  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Site Center  
TMSP Added: 03/08/2011 09:37:13  
Date Last Updated: 03/10/2011 12:00:59  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 20.61  
Longitude Degree: -92  
Longitude Minute: 11  
Longitude Second: 23.64  
Staff Id Who Did The Last Update: MAPTOOL  
Program Id: 194647  
Latlong ID: 169720  
Collection Date: 05/03/2011 07:03:27  
LatLong Description: Not reported  
TMSP Added: 03/29/2010 19:01:22  
Date Last Updated: 05/03/2011 07:03:29  
Coord Source Type: Not reported  
Org Name Source: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL WEATHER SERVICE STATION (Continued)**

**U003185931**

Insrem:

Piping Material: 1  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Tabsite:

Facility Code: 14  
Staff Id Who Did The Last Update: SYS  
Program Interest Id: 194647  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: 06/05/1986 00:00:00  
AST Registration Date: Not reported  
Date Added: 07/23/1992 19:11:05  
Date Last Updated: 05/23/2003 09:21:01  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

Tank A:

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 001  
Above Or Underground: 1  
Tank Action ID: 271515  
Contractor Number: 150  
Supervisor Number: 3654  
Tank Action: 1  
Action Date: 09/09/1996 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:30:07  
Date Last Updated: 05/04/2002 07:57:33

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 001  
Above Or Underground: 1  
Tank Action ID: 324459  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 12/25/1975 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:07  
Date Last Updated: 05/04/2002 07:57:33

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 002  
Above Or Underground: 1  
Tank Action ID: 255975  
Contractor Number: 227  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 10/12/1998 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NATIONAL WEATHER SERVICE STATION (Continued)**

**U003185931**

Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:07  
Date Last Updated: 05/04/2002 07:57:33

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 003  
Above Or Underground: 1  
Tank Action ID: 267635  
Contractor Number: 227  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 10/12/1998 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:07  
Date Last Updated: 05/04/2002 07:57:33

**Tank C:**

MPCA Tank Number: 003  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 3000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:35  
Date Last Updated: 05/04/2002 07:57:33

MPCA Tank Number: 001  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 10  
Tank Stored Product Desc: DIESEL  
Compartment Cap: 500  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:42  
Date Last Updated: 05/04/2002 07:57:33

MPCA Tank Number: 002  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 8000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:15  
Date Last Updated: 05/04/2002 07:57:33

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**C18**  
**WSW**  
**< 1/8**  
**0.031 mi.**  
**166 ft.**

**DULUTH INTERNATIONAL AIRPORT - SITE 102**  
**AIRPORT ROAD, SITE 102**  
**DULUTH, MN 55811**  
  
**Site 2 of 6 in cluster C**

**MN LS S106635037**  
**N/A**

**Relative:**  
**Lower**

MN LS:  
Link ID: 5546  
EPA ID: Not reported  
MPCA ID: VP14731  
Method: DM  
CERCLIS: No  
National Priorities List: No  
PLP: No  
Voluntary Cleanup & Investigation: Yes  
RCRA Treatment Storage & Disposal: No  
RCRA Generator: No  
Solid Waste Permit: No  
Dumps: No  
No Further Remedial Action Planned: No  
Delisted From PLP By MPCA: No  
LCP: No  
Brownfield: No  
Entity Type: VIC

**C19**  
**WSW**  
**< 1/8**  
**0.031 mi.**  
**166 ft.**

**DULUTH INTERNATIONAL AIRPORT - SITE #102**  
**AIRPORT ROAD, SITE 102**  
**DULUTH, MN 55811**  
  
**Site 3 of 6 in cluster C**

**MN VIC S122371029**  
**MN BROWNFIELDS N/A**  
**MN SRS**

**Relative:**  
**Lower**

VIC:  
Name: DULUTH INTERNATIONAL AIRPORT - SITE #102  
Address: AIRPORT ROAD, SITE 102  
City,State,Zip: DULUTH, MN 55811  
Facility ID: VP14730  
Facility Type: CON  
Item ID: 11034-AREA0000000002  
AI ID: 11034  
AI Name: Duluth International Airport - Site 102  
Hydro: Mike Bares (former)  
Project Manager: Jane Mosel (no longer at MPCA)  
Latitude: 46.83648216000  
Longitude: -92.19551218000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/11034>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: 06/25/2001  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 09/04/2008  
Owner: Unknown  
Owner Address: 520 Lafayette Rd N  
Owner City: Saint Paul  
Owner State: MN  
Owner ZIP: 55155

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

Prior Aug 2016:  
Facility ID: VP14730  
Facility Address 2: Not reported  
Core Program Interest ID: 336948  
Link ID: 5546  
Site Type: Other  
Active?: False  
Pay Complete: False  
MPCA Region: Duluth  
Site Size: 2  
Score: Not reported  
Enforcement Lead Agency: MPCA  
Federal Deferral Pilot?: False  
Site Classification A Emergency: False  
Site Classification B O and m: False  
Site Classification C Rd/ra: False  
Site Classification D Ri/fs: False  
Fund Financed: False  
NPL: False  
PLP: False  
District: North  
Program Site Was Referred From: Not reported  
Program Interest: VIC  
Physical Location: none  
Natural Resource Damage: False  
Cleanup Cost: Not reported  
Notes: Not reported  
Indian Reservation Land?: False  
Reservation Name: Not reported  
MPCA-owned Wells At Site?: False  
Created By: Pjensen  
Created Date: 06/25/2001  
Last Update Date: 08/22/2007  
Federal Facility?: False  
Primary Funding Source: Not reported  
EPA ID: Not reported  
MPCA ID: Not reported  
Alpha Sort: Not reported  
Legal District: 06B  
Congressional District: 8  
Public Land Survey Method: Not reported  
Map Scale For PLS Locational Data: Not reported  
Township 2: Not reported  
Range: Not reported  
PLS Township Suffix: Not reported  
Section: Not reported  
PLS Qtr Section (160 Acres): Not reported  
PLS Qtr-Qtr Section (40 Acres): Not reported  
Pls Qtr-Qtr-Qtr Section (10 Acres): Not reported  
Pls Qtr-Qtr-Qtr-Qtr Secion (2.5 Acres): Not reported  
Quad: Not reported  
NAD Number: 83  
Desc Of UTM Coord Pt: Not reported  
UTM Coord Pt Data Source: Not reported  
Org Providing UTM Coord Point Data: Not reported  
mpcapgmac: Not reported  
Utm Coord Pt Data Collection Method: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

Date Of Utm Coord Pt Data Collection:	Not reported
COL Date Qual:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported
Utm Source:	Not reported
Utm Method:	Not reported
Utm Scale:	Not reported
Utm Accuracy:	Not reported
Utm East:	561327.13
Utm North:	5187306
Utm Zone:	15
Basin Code:	1
Major Watershed:	Not reported
Minor Watershed:	Not reported
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported
PLS Qtr-Qtr Section (40 Acres) 2:	Not reported
PLS Qtr-Qtr Section (10 Acres) 2:	Not reported
PLS Qtr-Qtr Section (2.5 Acres) 2:	Not reported
Quad 2:	Not reported
File Location:	Regional Office
VIC Application GIS:	False
Petroleum Brownfields Prog?:	False
Impact and Response Actions:	
Facid:	VP14730
GW Receipts Prot by Rem Actn:	Not reported
Ecological receptors present:	1
Type of ecological receptors:	Not reported
Acres of contaminated soil:	Not reported
Volume of contaminated soil:	Not reported
Acres of surface water impacted:	Not reported
Acres of wetland impacted:	Not reported
Acres of sediment impacted:	Not reported
GW Plume Area Acres:	Not reported
Cleanup Conducted:	1
Acres of Contam Soil remediate:	Not reported
Volume of Soil Cleaned:	Not reported
# Municipal wells contamd:	Not reported
# Dom wells contam:	Not reported
# People Impct SW intake contam:	Not reported
# Drums Revolved from site:	Not reported
Yr Soil Remediated:	Not reported
Acres of Soil w/ Restrict Access:	Not reported
Yr IC remedy complete:	Not reported
Yr GW remedy completed:	Not reported
Year GWIC completed:	Not reported
Acres of wetland of sediment remediated:	Not reported
Public financing:	1
Assurance help:	1
Land use Classfn At Site:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

Land use Vicinity Of Site: Not reported  
Deed notif Present On Site: 1  
Restrictive Covenant Present: 1  
Restrictions: Not reported  
GW Pump and Treat Used at site: 1  
Quaternary Perched: 1  
Quaternary Water Table: 1  
Quaternary Confined: 1  
Cretaceous: 1  
Plattville: 1  
St. peter: 1  
Prairie Duchien: 1  
Jordan: 1  
Ironton/Galesville: 1  
Mt Simon Hinckley: 1  
Precambrian Undifferentiated: 1  
Other/Unknown Aquifer: 1  
Date Info Last Updated: 2015-08-18 12:45:00  
Inst Control Info Updated: Not reported  
Inst Control Filed Location: Not reported  
SW Classification (Primary): Not reported  
SW Classification (Secondary): Not reported  
Miscellaneous: Not reported  
SW Comments: Not reported

Site Event Log:

Date Started: 2001-06-25 00:00:00  
Date End: Not reported  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2001-06-26 00:00:00  
Facid: VP14730  
Event: 1  
Additional Information: None Entered  
Record Number: 38812

Contact Info:

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: Not reported  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: Not reported  
Date Info Last Updated: 2013-05-16 00:00:00

Contacts:

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Fax: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3351

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: (651) 757-8599  
Contact Phone Ext: Not reported  
Contact Fax: 651-297-3243  
Contact E-mail: mike.bares@state.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2002-01-07 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3188

Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 401 East First Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187233556  
Contact Phone Ext: Not reported  
Contact Fax: 2187233540  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: T  
Staff Id Num: 0

Contact Type: 1  
Company Name: Environmental Compliance Consultants, Inc.  
Contact Address: 2453 Atwood Avenue  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 6082230875  
Contact Phone Ext: Not reported  
Contact Fax: 6082239925  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 401 E. First Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187233368  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

**BROWNFIELDS:**

Name: DULUTH INTERNATIONAL AIRPORT - SITE #102  
Address: AIRPORT ROAD, SITE 102  
City,State,Zip: DULUTH, MN 55811  
Site ID: VP14730  
Leak Num: Not reported  
Owner Name: Unknown  
Leak Source: Not reported  
Response Action Date: Not reported  
Site Acreage: Not reported  
Item Id: 11034-AREA0000000002  
AI ID: 11034  
AI Name: Duluth International Airport - Site 102  
Site type: BROWNFIELD  
Hydro: Mike Bares (former)  
Project Manager: Jane Mosel (no longer at MPCA)  
Coord Collection Method: Not reported  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/11034>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 09/04/2008  
Owner Address: 520 Lafayette Rd N  
Owner City: Saint Paul  
Owner State: MN  
Owner ZIP: 55155  
Latitude: 46.83648216000  
Longitude: -92.19551218000

**SRS:**

Name: DULUTH INTERNATIONAL AIRPORT - SITE #102  
Address: AIRPORT ROAD, SITE 102  
City,State,Zip: DULUTH, MN 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

Facility ID:	VP14730
Item ID:	11034-AREA0000000002
AI ID:	11034
AI Name:	Duluth International Airport - Site 102
Facility Type:	BROW
Hydro:	Mike Bares (former)
Project Manager:	Jane Mosel (no longer at MPCA)
Latitude:	46.83648216000
Longitude:	-92.19551218000
Coord Collection Method:	Digitized - MPCA internal map
Migrated:	Y
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/11034">https://webapp.pca.state.mn.us/wimn/site/11034</a>
Leak Discovered:	Not reported
Leak Reported:	Not reported
Application / Notification Received:	06/25/2001
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	09/04/2008
Owner:	Unknown
Owner Address:	520 Lafayette Rd N
Owner City:	Saint Paul
Owner State:	MN
Owner ZIP:	55155
Acreage:	2.00000000
BPET:	Not reported
BVIC:	Y
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW20010001
Act Desc:	Brownfield Site
Status:	Closed
Prior Aug 2016:	
Facility ID:	VP14730
Facility Address 2:	Not reported
Core Program Interest ID:	336948
Link ID:	5546
Site Type:	Other
Active?:	False
Pay Complete:	False
MPCA Region:	Duluth
Site Size:	2
Score:	Not reported
Enforcement Lead Agency:	MPCA
Federal Deferral Pilot?:	False
Site Classification A Emergency:	False
Site Classification B O and m:	False
Site Classification C Rd/ra:	False
Site Classification D Ri/fs:	False
Fund Financed:	False
NPL:	False
PLP:	False
District:	North

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

Program Site Was Referred From:	Not reported
Program Interest:	VIC
Physical Location:	none
Natural Resource Damage:	False
Cleanup Cost:	Not reported
Notes:	Not reported
Indian Reservation Land?:	False
Reservation Name:	Not reported
MPCA-owned Wells At Site?:	False
Created By:	Pjensen
Created Date:	06/25/2001
Last Update Date:	08/22/2007
Federal Facility?:	False
Primary Funding Source:	Not reported
EPA ID:	Not reported
MPCA ID:	Not reported
Alpha Sort:	Not reported
Legal District:	06B
Congressional District:	8
Public Land Survey Method:	Not reported
Map Scale For PLS Locational Data:	Not reported
Township:	Not reported
Range:	Not reported
PLS Township Suffix:	Not reported
Section:	Not reported
PLS Qtr Section (160 Acres):	Not reported
PLS Qtr-Qtr Section (40 Acres):	Not reported
PLS Qtr-Qtr-Qtr Section (10 Acres):	Not reported
PLS Qtr-Qtr-Qtr Section (10 Acres):	Not reported
Quad:	Not reported
NAD Number:	83
Desc Of UTM Coord Pt:	Not reported
Desc Of UTM Coord Pt:	Not reported
Desc Of UTM Coord Pt:	Not reported
mpcapgmac:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported
Utm Source:	Not reported
Utm Method:	Not reported
Utm Scale:	Not reported
Utm Accuracy:	Not reported
Utm East:	561327.13
Utm North:	5187306
Utm Zone:	15
Basin Code:	1
Major Watershed:	Not reported
Minor Watershed:	Not reported
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

PLS Qtr-Qtr Section (40 Acres) 2:	Not reported
PLS Qtr-Qtr Section (10 Acres) 2:	Not reported
PLS Qtr-Qtr Section (2.5 Acres) 2:	Not reported
Quad 2:	Not reported
File Location:	Regional Office
VIC Application GIS:	False
Petroleum Brownfields Prog?:	False

Impact and Response Actions:

Facid:	VP14730
GW Receipts Prot by Rem Actn:	Not reported
Ecological receptors present:	1
Type of ecological receptors:	Not reported
Acres of contaminated soil:	Not reported
Volume of contaminated soil:	Not reported
Acres of surface water impacted:	Not reported
Acres of wetland impacted:	Not reported
Acres of sediment impacted:	Not reported
GW Plume Area Acres:	Not reported
Cleanup Conducted:	1
Acres of Contam Soil remediate:	Not reported
Volume of Soil Cleaned:	Not reported
# Municipal wells contamd:	Not reported
# Dom wells contam:	Not reported
# People Impct SW intake contam:	Not reported
# Drums Revolved from site:	Not reported
Yr Soil Remediated:	Not reported
Acres of Soil w/ Restrict Access:	Not reported
Yr IC remedy complete:	Not reported
Yr GW remedy completed:	Not reported
Year GWIC completed:	Not reported
Acres of wetland of sediment remediated:	Not reported
Public financing:	1
Assurance help:	1
Land use Classfn At Site:	Not reported
Land use Vicinity Of Site:	Not reported
Deed notif Present On Site:	1
Restrictive Covenant Present:	1
Restrictions:	Not reported
GW Pump and Treat Used at site:	1
Quaternary Perched:	1
Quaternary Water Table:	1
Quaternary Confined:	1
Cretaceous:	1
Plattville:	1
St. peter:	1
Prairie Duchien:	1
Jordan:	1
Ironton/Galesville:	1
Mt Simon Hinckley:	1
Precambrian Undifferentiated:	1
Other/Unknown Aquifier:	1
Date Info Last Updated:	2015-08-18 12:45:00
Inst Control Info Updated:	Not reported
Inst Control Filed Location:	Not reported
SW Classification (Primary):	Not reported
SW Classification (Secondary):	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)**

**S122371029**

Miscellaneous: Not reported  
SW Comments: Not reported

Site Event Log:  
Date Started: 2001-06-25 00:00:00  
Date End: Not reported  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2001-06-26 00:00:00  
Facid: VP14730  
Event: 1  
Additional Information: None Entered  
Record Number: 38812

Contact Info:  
Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: Not reported  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: Not reported  
Date Info Last Updated: 2013-05-16 00:00:00

Contacts:  
Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3351

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: (651) 757-8599  
Contact Phone Ext: Not reported  
Contact Fax: 651-297-3243  
Contact E-mail: mike.bares@state.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2002-01-07 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - SITE #102 (Continued)

S122371029

Staff Id Num: 3188  
Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 401 East First Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187233556  
Contact Phone Ext: Not reported  
Contact Fax: 2187233540  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: T  
Staff Id Num: 0

Contact Type: 1  
Company Name: Environmental Compliance Consultants, Inc.  
Contact Address: 2453 Atwood Avenue  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 6082230875  
Contact Phone Ext: Not reported  
Contact Fax: 6082239925  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 401 E. First Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187233368  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A20**  
**ENE**  
 < 1/8  
 0.032 mi.  
 171 ft.

**DULUTH AIRBASE OLD TERMINAL AREA**  
**4516 AIRPORT APPROACH RD**  
**DULUTH, MN 55811**

**MN SRS**  
**MN Financial Assurance**  
**MN VAPOR**  
**MN WIMN**

**S106551533**  
**N/A**

**Site 11 of 14 in cluster A**

**Relative:**  
**Lower**  
**Actual:**  
**1416 ft.**

**SRS:**  
 Name: DULUTH AIRBASE OLD TERMINAL AREA  
 Address: 4516 AIRPORT APPROACH RD  
 City,State,Zip: DULUTH, MN 55811  
 Facility ID: SA0004578  
 Item ID: 196311-AREA0000000001  
 AI ID: 196311  
 AI Name: Duluth Airbase Old Terminal Area  
 Facility Type: SITE  
 Hydro: Not reported  
 Project Manager: Mark Elliott (former)  
 Latitude: 46.83363912000  
 Longitude: -92.19331711000  
 Coord Collection Method: Address Matching House Number  
 Migrated: Y  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/196311>  
 Leak Discovered: Not reported  
 Leak Reported: Not reported  
 Application / Notification Received: 01/01/2008  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Site Closed: 01/01/2008  
 Owner: Duluth Airbase Old Terminal Area  
 Owner Address: 4516 Airport Approach Rd  
 Owner City: Duluth  
 Owner State: MN  
 Owner ZIP: 55811  
 Acreage: 8.00000000  
 BPET: Not reported  
 BVIC: Not reported  
 SEMS: Not reported  
 UNP Dump: Not reported  
 IC: Not reported  
 HRS Score: 0  
 Score Year: Not reported  
 Activity ID: SIW20130001  
 Act Desc: Site Assessment Investigation  
 Status: Closed

**MN Financial Assurance 1:**  
 PROGRAM ID: 225301  
 Township Name: Not reported  
 Region: 1  
 Interest Type: Deleted Leak Site  
 ADDR ID: 272269  
 Interest Telephone: Not reported  
 Preferred ID: 12924  
 Interest Start Date: 09/03/1999  
 Interest End Date: Not reported  
 Activity Flag: Not reported  
 TMSP Added: 12/04/1999



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIRBASE OLD TERMINAL AREA (Continued)**

**S106551533**

TMSP Last Update: 12/01/2006 07:17:01  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 225301  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 272269  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 12924  
Interest Start Date: 09/03/1999  
Interest End Date: 03/10/2011  
Activity Flag: N  
TMSP Added: 12/01/2006  
TMSP Last Update: 11/10/2014 08:17:06  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 217550  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 225301  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 16.70828707  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 23.03836858  
Collection Date: 03/06/2007 00:00:00  
Lat/Long Description: Site Center  
TMSP Added: 03/08/2007 14:19:33  
TMSP Last Update: 05/03/2011 07:16:29  
Staff ID Last Update: GZARLIN  
Coord Source Type: 2  
Org Name Source: Gary Zarling  
Coord Coll Meth: I1  
Map Scale Code: B  
Source: TALES  
Site ID: 217550  
Spatial ID: 51841958

Program Id: 225301  
Lat/Long ID: 169720  
Latitude Degrees: 46  
Latitude Minutes: 50

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIRBASE OLD TERMINAL AREA (Continued)**

**S106551533**

Latitude Seconds: 20.61  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 23.64  
Collection Date: 05/03/2011 07:03:27  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 19:01:22  
TMSP Last Update: 05/03/2011 07:03:29  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 217550  
Spatial ID: 51841958

Staff Name:

Program Id: 225301  
Staff Sequence ID: 30150  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 07/31/2002 07:50:22  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3451

Program Id: 225301  
Staff Sequence ID: 9019  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:05  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3433

VAPOR:

Name: DULUTH AIRBASE OLD TERMINAL AREA  
Address: 4516 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN  
Site ID: SA0004578  
Delta Site ID: 196311  
WIMN Link: <https://webapp.pca.state.mn.us/wimn/site/196311>  
AI Name: Duluth Airbase Old Terminal Area  
Vapor Concern at Site: Other sites that have had vapor concerns  
Vapor Reassessment: No  
Item ID: 196311-AREA0000000001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH AIRBASE OLD TERMINAL AREA (Continued)

S106551533

Site Type: Site Assessment Site  
Method Desc: Address Matching House Number  
Latitude: 46.83363912  
Longitude: -92.19331711

WIMN:

Name: DULUTH AIRBASE OLD TERMINAL AREA  
Address: 4516 AIRPORT APPROACH RD  
Address Description: 4516 Airport Approach Rd  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.83363912000001  
Longitude: -92.193317109999995  
Item ID: 196311-AISI0000196311  
AI ID: 196311  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 196311  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Investigation and Cleanup  
Program List: SR  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: A1  
Method Description: Address Matching House Number  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 04/26/2016  
Timestamp of Creation: 11/20/2015  
User Name of Creator: DELTA\_M\_R2  
Timestamp of Last Update: 04/26/2016  
User Name of Last Update: spatial\_  
Status Date: Not reported  
The Delta Spatial ID: Not reported  
Activity: Site Assessment

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH AIRBASE OLD TERMINAL AREA (Continued)**

**S106551533**

Activity List: Site Assessment  
MPCA ID: SA0004578  
MPCA List: SA0004578  
Program List: Investigation and Cleanup  
Classification: Not reported  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/196311>

**A21  
ENE  
< 1/8  
0.042 mi.  
222 ft.**

**MONACO AIR DULUTH  
4535 AIRPORT APPROACH RD  
DULUTH, MN 55811**

**MN AST A100283153  
N/A**

**Site 12 of 14 in cluster A**

**Relative:  
Lower  
Actual:  
1414 ft.**

**AST:**  
Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
AI ID: 4928  
Tank Site ID: TS0122904  
Item ID: 4928-EQUI0000000001  
SI Type: Aboveground Storage Tank  
SI Design: 1004  
SI Description: 25,000 gal/Petroleum Other/Active  
Substance: Petroleum Other  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST Level 3 (Level 1, and auto shutoff)  
Install Date: 2002-06-30 00:00:00  
Status Change Date: 2002-06-30 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 25000  
Longitude: -92.23551093  
Latitude: 46.84924589  
Coord Collection Method: Public Land Survey-Two Quarter  
Owner Name: LLC  
Owner Address: 4535 Airport Approach Rd  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 558111555  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0122904>

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
AI ID: 4928  
Tank Site ID: TS0122904  
Item ID: 4928-EQUI0000000002  
SI Type: Aboveground Storage Tank  
SI Design: 1003  
SI Description: 25,000 gal/Petroleum Other/Active  
Substance: Petroleum Other  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST Level 3 (Level 1, and auto shutoff)  
Install Date: 1987-10-11 00:00:00  
Status Change Date: 2003-01-15 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**A100283153**

Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 25000  
Longitude: -92.23551093  
Latitude: 46.84924589  
Coord Collection Method: Public Land Survey-Two Quarter  
Owner Name: LLC  
Owner Address: 4535 Airport Approach Rd  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 558111555  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0122904>

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
AI ID: 4928  
Tank Site ID: TS0122904  
Item ID: 4928-EQUI0000000003  
SI Type: Aboveground Storage Tank  
SI Design: 1001  
SI Description: 10,000 gal/Diesel Fuel/Active  
Substance: Diesel Fuel  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST Level 3 (Level 1, and auto shutoff)  
Install Date: 2002-12-30 00:00:00  
Status Change Date: 2003-01-15 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 10000  
Longitude: -92.19275968  
Latitude: 46.83424824  
Coord Collection Method: Address Matching House Number  
Owner Name: LLC  
Owner Address: 4535 Airport Approach Rd  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 558111555  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0122904>

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
AI ID: 4928  
Tank Site ID: TS0122904  
Item ID: 4928-EQUI0000000004  
SI Type: Aboveground Storage Tank  
SI Design: 1002  
SI Description: 10,000 gal/Gasoline Blends (E1-E49)/Active  
Substance: Gasoline Blends (E1-E49)  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST Level 3 (Level 1, and auto shutoff)  
Install Date: 2002-06-30 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**A100283153**

Status Change Date: 2003-01-15 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 10000  
Longitude: -92.23551093  
Latitude: 46.84924589  
Coord Collection Method: Public Land Survey-Two Quarter  
Owner Name: LLC  
Owner Address: 4535 Airport Approach Rd  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 558111555  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0122904>

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
AI ID: 4928  
Tank Site ID: TS0122904  
Item ID: 4928-EQUI0000000005  
SI Type: Aboveground Storage Tank  
SI Design: 1006  
SI Description: 25,000 gal/Petroleum Other/Active  
Substance: Petroleum Other  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST Level 3 (Level 1, and auto shutoff)  
Install Date: 2002-08-30 00:00:00  
Status Change Date: 2003-01-15 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 25000  
Longitude: -92.19275968  
Latitude: 46.83424824  
Coord Collection Method: Address Matching House Number  
Owner Name: LLC  
Owner Address: 4535 Airport Approach Rd  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 558111555  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0122904>

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
AI ID: 4928  
Tank Site ID: TS0122904  
Item ID: 4928-EQUI0000000006  
SI Type: Aboveground Storage Tank  
SI Design: 1005  
SI Description: 25,000 gal/Petroleum Other/Active  
Substance: Petroleum Other  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST Level 3 (Level 1, and auto shutoff)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**A100283153**

Install Date: 2002-08-30 00:00:00  
Status Change Date: 2003-01-15 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 25000  
Longitude: -92.19275968  
Latitude: 46.83424824  
Coord Collection Method: Address Matching House Number  
Owner Name: LLC  
Owner Address: 4535 Airport Approach Rd  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 558111555  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0122904>

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
AI ID: 4928  
Tank Site ID: TS0122904  
Item ID: 4928-EQUI0000000007  
SI Type: Aboveground Storage Tank  
SI Design: 1007  
SI Description: 10,000 gal/Aviation Gas/Active  
Substance: Aviation Gas  
Compartment Number: 1  
Wall Type: Single  
Overfill Prevention System: AST Level 3 (Level 1, and auto shutoff)  
Install Date: 2002-06-30 00:00:00  
Status Change Date: 2003-01-15 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 10000  
Longitude: -92.19275968  
Latitude: 46.83424824  
Coord Collection Method: Address Matching House Number  
Owner Name: LLC  
Owner Address: 4535 Airport Approach Rd  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 558111555  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0122904>

**A22**  
**ENE**  
**< 1/8**  
**0.042 mi.**  
**222 ft.**  
**Relative:**  
**Lower**  
**Actual:**  
**1414 ft.**

**NORTH COUNTRY AVIATION INC**  
**4535 AIRPORT APPROACH RD**  
**DULUTH, MN 55811**  
**Site 13 of 14 in cluster A**

**MN LAST 1000405273**  
**MN SRS MND151036019**  
**MN SPILLS**  
**RCRA NonGen / NLR**  
**FINDS**  
**ECHO**  
**MN ENF**  
**MN Financial Assurance**  
**MN TIER 2**

LAST:  
Name: FORMER NORTH COUNTRY AVIATION  
Address: 4535 AIRPORT APPROACH RD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

City,State,Zip: DULUTH, MN 55811  
Item ID: 4928-AREA0000000004  
AI ID: 4928  
MN PCA ID: 340595  
AI Name: Monaco Air Duluth  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Gary Zarling (former)  
Latitude: 46.83810425  
Longitude: -92.19317627  
Corrd Collection Method: Digitized-DRG  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/4928>  
Leak Discovered: 10/28/2005  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 09/24/2007  
Owner: LLC  
Owner Address: 4535 Airport Approach Rd  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 558111555  
SI Type: Aboveground Storage Tank  
Leak Reported: 10/31/2005

0816:  
Program IN: 340595  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 16301  
Township Name: Not reported  
Addr Id: 18734  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 12/16/2005 00:00:00  
Interest End Date: 03/08/2011 10:01:47  
Source: CORE  
Site ID: 54680945  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: Not reported  
Cubic Yards Excavated: Not reported  
Cond Closure Date: Not reported  
Complete Site Closure Date: 09/24/2007 00:00:00  
Contaminated Soils Remaining: Y  
Enforcement Action Begin Dt: 12/27/2005  
Last Trust Eligible: N  
Offsite Contamination: N  
Reimbursement Awarded: N  
Release Discovered Date: 10/28/2005



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Leak Reported Date: 10/31/2005  
Std Letter Response Date: 01/03/2006  
Surface Water Impact: N  
Utility Project Flag: N  
TMSP Added: 12/16/2005 13:37:06  
TMSP Last Update: 05/24/2011 15:21:40  
Staff Id Last Update: GZARLIN  
Release From LAST: Y  
Release From LUST: N  
Tank Registration Status Code: S  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: N  
Soil Gas Data Collected Flag: N  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: No nearby receptors of concern.  
Soil Gas Data Comments: Not reported  
Comments: Not reported

**GW Info:**

MN PCA ID: 340595  
Dw Supply Contam: N  
Free Product Observed: N  
Free Product Thickness: Not reported  
Ground Water Contam: Y  
GW Cleanup Goal: Not reported  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: N  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 03/08/2007 12:11:34  
TMSP Last Update: 03/08/2007 12:11:34  
Staff Id Last Update: GZARLIN  
Mtbe Present Now: N  
Mtbe Present Historically: N  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: N  
Staff Id Ass: 3451  
PWS Well: N  
Prot Flag: N  
Sens Flag: N

**Prodrel:**

MN PCA ID: 340595  
Prod Released Sequence Id: 106260  
Leak Product: 18  
Tmsp Added: 03/08/2007 12:10:37  
Tmsp Last\_updt: 03/08/2007 12:10:37  
Staff Id Last Updt: GZARLIN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

MN PCA ID: 340595  
Prod Released Sequence Id: 106261  
Leak Product: 4  
Tmsp Added: 03/08/2007 12:10:37  
Tmsp Last\_updt: 03/08/2007 12:10:37  
Staff Id Last Updt: GZARLIN

**SRS:**

Name: FORMER NORTH COUNTRY AVIATION  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0016301  
Item ID: 4928-AREA0000000004  
AI ID: 4928  
AI Name: Monaco Air Duluth  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Gary Zarling (former)  
Latitude: 46.83810425000  
Longitude: -92.19317627000  
Coord Collection Method: Digitized-DRG  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/4928>  
Leak Discovered: 10/28/2005  
Leak Reported: 10/31/2005  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 09/24/2007  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20050001  
Act Desc: Leak Site Investigation  
Status: Closed

**SPILLS:**

Name: JEFF FOSTER TRUCKING  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Program ID: 242988  
Preferred ID: 57490  
Incident ID: 57490

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Incident Date: 08/09/2002  
Program: Emergency Response  
Incident Types: Leaking Tank - AST  
Duty Officer Number: Not reported  
Lead Investigator: Steve Leppala  
Incident Status: Closed or Completed  
Closure Type: Response/Action Completed  
AI ID source: Not reported  
Source name: Jeff Foster Trucking  
Source Address: 313 Winter St  
Source City: Not reported  
Source State: WI  
Source ZIP: Not reported  
Substance: 3100 gallons Kerosene  
Latitude: Not reported  
Longitude: Not reported  
Source CM: Not reported

Affected Area:  
Program ID: 242988  
Spill Inc Affected ID: 161428  
Spill Inc Affected Code: 14  
Tmsp Added: 08/20/2002 10:59:38  
Tmsp Last Updated: 08/20/2002 10:59:38  
Staff ID Last Update: SLEPPAL

Product:  
Program ID: 242988  
Spill Incident Accuracy ID: 161427  
Spill Product Code: 33  
Spill Qty Units: 5  
Spill Incident Accuracy: 1  
Spill Released Qty: 3100  
Tmsp Added: 08/20/2002 10:59:38  
Tmsp Last Update: 08/20/2002 10:59:38  
Staff ID Last Update: SLEPPAL

Name: BRIAN GREFE  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Program ID: 54754778  
Preferred ID: 73614  
Incident ID: 73614  
Incident Date: 07/20/2008  
Program: Emergency Response  
Incident Types: Leaking Tank - AST  
Duty Officer Number: 97629  
Lead Investigator: Steve Leppala  
Incident Status: Closed or Completed  
Closure Type: Response/Action Completed  
AI ID source: Not reported  
Source name: Brian Grefe  
Source Address: 4701 Grinden Drive  
Source City: Duluth  
Source State: MN  
Source ZIP: 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Substance: unknown units Petroleum Other  
Latitude: Not reported  
Longitude: Not reported  
Source CM: Not reported  
Affected Area:  
Program ID: 54754778  
Spill Inc Affected ID: 199567  
Spill Inc Affected Code: 6  
Tmsp Added: 08/11/2008 13:56:08  
Tmsp Last Updated: 08/11/2008 13:56:08  
Staff ID Last Update: SLEPPAL

Product:  
Program ID: 54754778  
Spill Incident Accuracy ID: 199567  
Spill Product Code: 34  
Spill Qty Units: 15  
Spill Incident Accuracy: 3  
Spill Released Qty: Not reported  
Tmsp Added: 08/11/2008 13:56:08  
Tmsp Last Update: 08/11/2008 13:56:08  
Staff ID Last Update: SLEPPAL

Name: NORTH COUNTRY AVIATION  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Program ID: 276900  
Preferred ID: 60240  
Incident ID: 60240  
Incident Date: 11/17/2003  
Program: Emergency Response  
Incident Types: Leaking Tank - AST  
Duty Officer Number: 55433  
Lead Investigator: Steve Leppala  
Incident Status: Closed or Completed  
Closure Type: Response/Action Completed  
AI ID source: Not reported  
Source name: North Country Aviation  
Source Address: 4535 Airport Approach Rd  
Source City: Duluth  
Source State: MN  
Source ZIP: 55811  
Substance: 50 gallons Diesel Fuel  
Latitude: Not reported  
Longitude: Not reported  
Source CM: Not reported

Affected Area:  
Program ID: 276900  
Spill Inc Affected ID: 168982  
Spill Inc Affected Code: 6  
Tmsp Added: 12/10/2003 17:25:33  
Tmsp Last Updated: 12/10/2003 17:25:33  
Staff ID Last Update: SLEPPAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Product:

Program ID: 276900  
Spill Incident Accuracy ID: 168981  
Spill Product Code: 30  
Spill Qty Units: 5  
Spill Incident Accuracy: 1  
Spill Released Qty: 50  
Tmsp Added: 12/10/2003 17:25:33  
Tmsp Last Update: 12/10/2003 17:25:33  
Staff ID Last Update: SLEPPAL

Facility Information:

Program ID: 242988  
Facility Address 2: Not reported  
Spill Date: 08/09/2002  
  
Program ID: 276900  
Facility Address 2: Not reported  
Spill Date: 11/17/2003  
  
Program ID: 54754778  
Facility Address 2: Not reported  
Spill Date: 07/20/2008

RCRA Listings:

Date Form Received by Agency: 19940412  
Handler Name: NORTH COUNTRY AVIATION INC  
Handler Address: 4535 AIRPORT APPROACH RD  
Handler City,State,Zip: DULUTH, MN 55811  
EPA ID: MND151036019  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City,State,Zip: Not reported  
Contact Telephone: Not reported  
Contact Fax: Not reported  
Contact Email: Not reported  
Contact Title: Not reported  
EPA Region: 05  
Land Type: Not reported  
Federal Waste Generator Description: Not a generator, verified  
Non-Notifier: Not reported  
Biennial Report Cycle: Not reported  
Accessibility: Not reported  
Active Site Indicator: Not reported  
State District Owner: Not reported  
State District: Not reported  
Mailing Address: 4535 AIRPORT APPROACH RD  
Mailing City,State,Zip: DULUTH, MN 55811  
Owner Name: Not reported  
Owner Type: Not reported  
Operator Name: NAME NOT REPORTED  
Operator Type: Private  
Short-Term Generator Activity: No  
Importer Activity: No  
Mixed Waste Generator: No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSD Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code: D000  
 Waste Description: Not Defined

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Waste Code: D001  
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator: Operator  
Owner/Operator Name: NAME NOT REPORTED  
Legal Status: Private  
Date Became Current: Not reported  
Date Ended Current: Not reported  
Owner/Operator Address: ADDRESS NOT REPORTED  
Owner/Operator City,State,Zip: CITY NOT REPORTED, AK 99998  
Owner/Operator Telephone: 312-555-1212  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: MONACO AIR DULUTH  
Legal Status: Private  
Date Became Current: 19990728  
Date Ended Current: Not reported  
Owner/Operator Address: 4535 AIRPORT APPROACH RD  
Owner/Operator City,State,Zip: DULUTH, MN 55811  
Owner/Operator Telephone: 218-727-2911  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 19940412  
Handler Name: NORTH COUNTRY AVIATION INC  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 19860812  
Handler Name: MONACO AIR DULUTH  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

List of NAICS Codes and Descriptions:

NAICS Code: 48819  
NAICS Description: OTHER SUPPORT ACTIVITIES FOR AIR TRANSPORTATION

Facility Has Received Notices of Violation:

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 20040115  
Actual Return to Compliance Date: 20040303  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 001  
Date of Enforcement Action: 20040115  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: Letter of Warning (LOW)  
Enforcement Responsible Person: MNJJ  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - Pre-transport  
Date Violation was Determined: 20040115  
Actual Return to Compliance Date: 20040303  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 001  
Date of Enforcement Action: 20040115  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Letter of Warning (LOW)
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20040115
Actual Return to Compliance Date:	20040303
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20040115
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Letter of Warning (LOW)
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported

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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Evaluation Action Summary:

Evaluation Date: 20040115  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20040303  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20040115  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20040303  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20040115  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20040303  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

**FINDS:**

Registry ID: 110003791193

[Click Here for FRS Facility Detail Report:](#)

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000405273  
Registry ID: 110003791193  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003791193>  
Name: NORTH COUNTRY AVIATION INC  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811

**MN Enforcement Log :**

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN  
Facility ID: MND151036019  
Violation: 262.A - Generators - General  
Determined Date: 01/15/2004  
Determined By: State  
Responsible Agency: Not reported  
RTC Date: 03/03/2004  
Enforcement Sequence: 001  
Effective End Date: 01/15/2004  
Enforcement Type: Letter of Warning  
Lead Agency: State  
Sequence: 5  
AI ID: 4928  
Activity ID: NON20040001  
Public Flag: Y  
Latitude: 46.8348951  
Longitude: -92.1916141  
Coord Collect Meth Desc: GPS - Other  
Mailing Address1: 4535 Airport Approach Rd  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: 55811  
Responsible Party: Monaco Air Duluth (Duluth, MN)  
Zero Date: 01/15/2004  
Case Closed: Not reported  
Case Lead: Jennifer Jensen  
Attorney Assigned: Not reported  
Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported

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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

MN Financial Assurance 1:

PROGRAM ID: 242988  
Township Name: Not reported  
Region: 1  
Interest Type: Spill site  
ADDR ID: 374807  
Interest Telephone: Not reported  
Preferred ID: 57490  
Interest Start Date: 08/20/2002  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 08/20/2002  
TMSP Last Update: 11/10/2005 07:28:38  
Staff ID Last Update: JFLODQU  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: \*\*No file\*\* Overfill, material came out through a vent pipe. All material was released to lined secondary containment and has been pumped into another tank on the site. Caller has been in contact with Tim Musick (MPCA) regarding containerizing of recovered material.

PROGRAM ID: 276900  
Township Name: Not reported  
Region: 1  
Interest Type: Spill site  
ADDR ID: 374807  
Interest Telephone: Not reported  
Preferred ID: 60240  
Interest Start Date: 12/10/2003  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/10/2003  
TMSP Last Update: 09/22/2005 08:47:20  
Staff ID Last Update: JFLODQU  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: \*\*No File\*\*\n\nHeating oil line leak, tank is located behind the hangar. Material has been contained on asphalt with absorbents and caller will handle clean-up. The line has already been repaired.

PROGRAM ID: 340595  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 18734

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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Interest Telephone: NO CORE PI PH.  
Preferred ID: 16301  
Interest Start Date: 12/16/2005  
Interest End Date: 03/08/2011  
Activity Flag: N  
TMSP Added: 03/24/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 54680945  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 54754778  
Township Name: Not reported  
Region: 1  
Interest Type: Spill site  
ADDR ID: 374807  
Interest Telephone: Not reported  
Preferred ID: 73614  
Interest Start Date: 08/11/2008  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 08/11/2008  
TMSP Last Update: 08/11/2008 13:56:08  
Staff ID Last Update: SLEPPAL  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Construction at GA apron. Impacts found near utility transfer station.  
Found storm sewer near above ground storage.

Latitude Longitude:  
Program Id: 340595  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 17.17398619  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 35.44344497  
Collection Date: 03/06/2007 00:00:00  
Lat/Long Description: Site Center  
TMSP Added: 03/06/2007 14:49:01  
TMSP Last Update: 03/06/2007 14:49:01  
Staff ID Last Update: GZARLIN  
Coord Source Type: 2  
Org Name Source: Gary Zarling  
Coord Coll Meth: I1  
Map Scale Code: B  
Source: TALES

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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Site ID: 54680945  
Spatial ID: 51071684  
  
Program Id: 340595  
Lat/Long ID: 183550  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 17.26  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 34.91  
Collection Date: 03/08/2011 09:49:13  
Lat/Long Description: Not reported  
TMSP Added: 03/30/2010 18:53:21  
TMSP Last Update: 03/08/2011 09:49:15  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 54680945  
Spatial ID: 51071684

Staff Name:  
Program Id: 340595  
Staff Sequence ID: 98603  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/16/2005 13:37:06  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3451

**TIER 2:**

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Year: 2011  
Facility Status: ACTIVE  
Facility Phone: Not reported  
Facility Email: Not reported  
Facility Web: Not reported  
Facility MNCP: Not reported  
SIC: 4581  
NAICS: 488119  
Dunn Brad Num: Not reported  
Contact Type: Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number  
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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Time Created: Not reported  
Signed By: Not reported  
Title: Not reported  
Signed Date: Not reported  
Attach Site Plan: Not reported  
Attach Coord Abbr: Not reported  
Attach Safeguard Info: Not reported  
Attach ERP: Not reported  
Hardcopy Attachments: Not reported  
Extension Site Plan: Not reported  
Extension Coord Abbr: Not reported  
Extension Safeguard Info: Not reported  
Extension ERP: Not reported  
Last Updated ERP: Not reported  
Last Tested ERP: Not reported  
Last Reviewed ERP: Not reported  
VZone Primary: Not reported  
VZone Secondary: Not reported  
Modified Date: Not reported  
FIPS County: Not reported  
Latitude/Longitude: /  
User Name: Not reported  
TRIFID: Not reported  
CMFCL Record ID: Not reported  
SEPC Approved Date ERP: Not reported  
Client System ID: 691250194  
Own Country: Not reported  
Site Plan: Not reported  
Confidential Location: Not reported  
Status 302: UNKNOWN  
Status 312: UNKNOWN  
Emergency Contact Name1: Rob Missinne  
Emergency Contact Name2: Erick Martin  
Emergency Contact Name3: Not reported  
Emergency Contact Name4: Not reported  
Emergency Contact 24hr Phone1: 2183905020  
Emergency Contact 24hr Phone2: 6619925910  
Emergency Contact 24hr Phone3: Not reported  
Emergency Contact 24hr Phone4: Not reported

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
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City,State,Zip: DULUTH, MN 55811  
Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD

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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

City,State,Zip: DULUTH, MN 55811  
Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Facility Id: 10699  
CAS Number: 57556  
Chemical Id: 23166  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: ABOVE GROUND IN MAINTENANCE FACILITY  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported



Map ID  
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Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Chemicals:

Facility Id: 10699  
Chemical Desc ID: 23166  
CAS No: 57556  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Trade Secret: No  
Pure: No  
Mixture: Yes  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: No  
Pressure: No  
Reactivity: No  
Delayed Health Affects: Yes  
Immediate Health Affects: Yes  
Max Daily Amt: 04  
Avg Daily Amt: 04  
Onsite Days: 365  
Max Daily Amt Exact: 55000  
Avg Daily Amt Exact: 27500  
Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No  
MSDS Attachment ID: No

Storage:

Storage Chem Desc ID: 23166  
Storage Container Type: A  
Storage Pressure: 1  
Storage Temp: 4  
Storage Location: ABOVE GROUND OUTSIDE AT THE EAST END OF TERMINAL BY GATE 4  
Storage ID: 115836  
Storage Confidential: No

Facility Id: 10699  
CAS Number: 57556  
Chemical Id: 23166  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: R  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: DEICE TRUCKS ON PROPERTY  
Is Storage Confidential Location: No  
Remark: Not reported

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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Chemicals:

Facility Id: 10699  
Chemical Desc ID: 23166  
CAS No: 57556  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Trade Secret: No  
Pure: No  
Mixture: Yes  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: No  
Pressure: No  
Reactivity: No  
Delayed Health Affects: Yes  
Immediate Health Affects: Yes  
Max Daily Amt: 04  
Avg Daily Amt: 04  
Onsite Days: 365  
Max Daily Amt Exact: 55000  
Avg Daily Amt Exact: 27500  
Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No

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**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

MSDS Attachment ID: No

Storage:

Storage Chem Desc ID: 23166

Storage Container Type: A

Storage Pressure: 1

Storage Temp: 4

Storage Location: ABOVE GROUND OUTSIDE AT THE EAST END OF TERMINAL BY GATE 4

Storage ID: 115836

Storage Confidential: No

Facility Id: 10699

CAS Number: 8008206

Chemical Id: 42167

Chemical Name: FUEL, AVIATION, TURBINE ENGINE

EHS Name: Not reported

Is EHS: No

Is EHS More than TPQ: No

Is Containing EHS: No

How Chemical Is Stored: Not reported

Max Daily Amt Code: 5

Avg Daily Amt Code: 5

Storage Container Type: A

Storage Pressure Class: 1

Storage Temperature Class: 4

Storage Location: FUEL FARM

Is Storage Confidential Location: No

Remark: Not reported

Maximum Number of Occupants at One Time: Not reported

Fire Department: Not reported

Phone: Not reported

Nature of Business: Not reported

Manned-Unmanned: Not reported

Is Combustible dust: Not reported

Is Corrosive to metal: Not reported

Is Explosive : Not reported

Is Flammable (gases aerosols liquids or solids): Not reported

Is Gas under pressure: Not reported

Is Physical Hazard Not Otherwise Classified: Not reported

Is In contact with water emits flammable gas: Not reported

Is Organic peroxide: Not reported

Is Oxidizer (liquid solid or gas): Not reported

Is Pyrophoric (liquid or solid): Not reported

Is Pyrophoric gas: Not reported

Is Self-heating: Not reported

Is Self-reactive: Not reported

Is Acute toxicity (any route of exposure): Not reported

Is Aspiration hazard: Not reported

Is Carcinogenicity: Not reported

Is Germ cell mutagenicity: Not reported

Is Health Hazard Not Otherwise Classified: Not reported

Is Reproductive toxicity: Not reported

Is Respiratory or skin sensitization: Not reported

Is Serious eye damage or eye irritation: Not reported

Is Simple asphyxiant : Not reported

Is Skin corrosion or irritation: Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

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EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Is Specific target organ toxicity:	Not reported
Facility Id:	10699
CAS Number:	8008206
Chemical Id:	42167
Chemical Name:	FUEL, AVIATION, TURBINE ENGINE
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	No
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	5
Avg Daily Amt Code:	5
Storage Container Type:	R
Storage Pressure Class:	1
Storage Temperature Class:	4
Storage Location:	JET FUEL TRUCKS ON PROPERTY
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported
Facility Id:	10699
CAS Number:	68476302
Chemical Id:	42219
Chemical Name:	DIESEL FUEL
EHS Name:	Not reported
Is EHS:	No

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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Is EHS More than TPQ:	No
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	4
Avg Daily Amt Code:	4
Storage Container Type:	R
Storage Pressure Class:	1
Storage Temperature Class:	4
Storage Location:	DIESEL TRUCK ON PROPERTY
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported
Facility Id:	10699
CAS Number:	86290815
Chemical Id:	42168
Chemical Name:	GASOLINES: AVIATION (< 4.86G LEAD/GAL)
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	No
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	4
Avg Daily Amt Code:	4
Storage Container Type:	R
Storage Pressure Class:	1
Storage Temperature Class:	4
Storage Location:	AVGAS FUEL TRUCK ON PROPERTY

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 86290815  
Chemical Id: 42218  
Chemical Name: GASOLINE  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: FUEL FARM  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids) Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 86290815  
Chemical Id: 42218  
Chemical Name: GASOLINE  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: R  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: FUEL TRUCK ON PROPERTY  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids) Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 68476302  
Chemical Id: 42219  
Chemical Name: DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: FUEL FARM  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 86290815  
Chemical Id: 42168  
Chemical Name: GASOLINES: AVIATION (< 4.86G LEAD/GAL)  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: FUEL FARM  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Contact:  
Contact ID: 21398  
Contact Type: T2EC

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NORTH COUNTRY AVIATION INC (Continued)**

**1000405273**

Contact Name: Sid Simons  
 Contact Title: Facility O  
 Sort Order: 1

Device:  
 Contact Device ID: 21398  
 Device Type: Pager  
 Device Name: Pager  
 Device Value: 5074213717  
 Contact ID: 7132

Contact:  
 Contact ID: 21399  
 Contact Type: T2EC  
 Contact Name: NWA SOC  
 Contact Title: NWA System  
 Sort Order: 2

Device:  
 Contact Device ID: 21399  
 Device Type: Phone  
 Device Name: Phone  
 Device Value: 5073568345  
 Contact ID: 7133

[Click this hyperlink](#) while viewing on your computer to access  
 90 additional MN\_TIER2: record(s) in the EDR Site Report.

**A23**  
**ENE**  
**< 1/8**  
**0.042 mi.**  
**222 ft.**  
**Relative:**  
**Lower**  
**Actual:**  
**1414 ft.**

**MONACO AIR DULUTH**  
**4535 AIRPORT APPROACH ROAD**  
**DULUTH, MN 55811**  
**Site 14 of 14 in cluster A**

**MN SPILLS** **S107971797**  
**MN Financial Assurance** **N/A**  
**MN MANIFEST**  
**MN NPDES**  
**MN TIER 2**  
**MN WIMN**

**SPILLS:**  
 Name: MONACO AIRPORT  
 Address: 4535 AIRPORT APPROACH RD  
 City,State,Zip: DULUTH, MN 55811  
 Program ID: 76187596  
 Preferred ID: 94121  
 Incident ID: 94121  
 Incident Date: 09/30/2015  
 Program: Emergency Response  
 Incident Types: Spill or Release  
 Duty Officer Number: 153318  
 Lead Investigator: Kevin Mustonen  
 Incident Status: Closed or Completed  
 Closure Type: Response/Action Completed  
 AI ID source: Not reported  
 Source name: Monaco Airport  
 Source Address: 4535 Airport Approach Rd  
 Source City: Duluth  
 Source State: MN  
 Source ZIP: 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Substance: unknown units Petroleum Other  
Latitude: Not reported  
Longitude: Not reported  
Source CM: Not reported

Affected Area:

Program ID: 76187596  
Spill Inc Affected ID: 243825  
Spill Inc Affected Code: 6  
Tmsp Added: 10/01/2015 14:59:17  
Tmsp Last Updated: 10/01/2015 14:59:17  
Staff ID Last Update: KMUSTON

Product:

Program ID: 76187596  
Spill Incident Accuracy ID: 243825  
Spill Product Code: 34  
Spill Qty Units: 15  
Spill Incident Accuracy: 3  
Spill Released Qty: Not reported  
Tmsp Added: 10/01/2015 14:59:17  
Tmsp Last Update: 10/01/2015 14:59:17  
Staff ID Last Update: KMUSTON

Facility Information:

Program ID: 76187596  
Facility Address 2: Not reported  
Spill Date: 09/30/2015

MN Financial Assurance 1:

PROGRAM ID: 260493  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 18734  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 122904  
Interest Start Date: 03/13/2003  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 09/14/2006  
TMSP Last Update: 03/08/2011 09:27:14  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 54680945  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: site & owner name prev. North Country Aviation, Inc.

PROGRAM ID: 260493  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

ADDR ID: 374807  
Interest Telephone: 2187272911  
Preferred ID: 122904  
Interest Start Date: 03/13/2003  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 03/13/2003  
TMSP Last Update: 09/14/2006 14:38:53  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: site & owner name prev. North Country Aviation, Inc.

PROGRAM ID: 54680948  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 18734  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 17312  
Interest Start Date: 07/25/2008  
Interest End Date: 05/06/2009  
Activity Flag: N  
TMSP Added: 07/25/2008  
TMSP Last Update: 03/11/2016 14:51:55  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 54680945  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 76187596  
Township Name: Not reported  
Region: 1  
Interest Type: Spill site  
ADDR ID: 374807  
Interest Telephone: Not reported  
Preferred ID: 94121  
Interest Start Date: 10/01/2015  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 10/01/2015  
TMSP Last Update: 10/01/2015 14:59:16  
Staff ID Last Update: KMUSTON  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

MONACO AIR DULUTH (Continued)

S107971797

Comments: Doing general construction at airport in Duluth and found contamination around a waste oil tap to a drain. Tim Huber, (218) 628-0202, with Johnson Wilson Constructors. He is the contact if any questions. Eric Oleson can be called as the backup at 715-828-1476, he is the consultant. PID 75 PPM, analytical is pending  
Water Source: Municipal  
Native Soil: silty clay  
Surface water nearby: None  
Depth to Groundwater is unknown  
There was an odor.

Latitude Longitude:

Program Id: 54680948  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 04/19/2010 16:01:31  
TMSP Last Update: 03/08/2011 09:54:03  
Staff ID Last Update: SFRYE  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 54680945  
Spatial ID: 54680949

Program Id: 54680948  
Lat/Long ID: 183550  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 17.26  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 34.91  
Collection Date: 03/08/2011 09:49:13  
Lat/Long Description: Not reported  
TMSP Added: 03/30/2010 18:53:21  
TMSP Last Update: 03/08/2011 09:49:15  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 54680945  
Spatial ID: 54680949

Staff Name:

Program Id: 54680948  
Staff Sequence ID: 115354  
Staff Type: Not reported  
Staff Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

TMSP Added: 07/25/2008 07:46:30  
TMSP Last Update: 01/20/2012 10:39:38  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3301

Latitude Longitude:  
Program Id: 260493  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 03/08/2011 09:20:22  
TMSP Last Update: 03/08/2011 09:53:44  
Staff ID Last Update: SFRYE  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 54680945  
Spatial ID: 51437885

Program Id: 260493  
Lat/Long ID: 183550  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 17.26  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 34.91  
Collection Date: 03/08/2011 09:49:13  
Lat/Long Description: Not reported  
TMSP Added: 03/30/2010 18:53:21  
TMSP Last Update: 03/08/2011 09:49:15  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 54680945  
Spatial ID: 51437885

Tab Site:  
Program Id: 260493

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Facility Code: 37  
Above or Under Code: 1  
Indian Reservation: N  
Ust Registration Date: Not reported  
Ast Registration Date: 01/14/2003 00:00:00  
TMSP Added: 03/13/2003 08:56:12  
TMSP Last Update: 05/05/2006 06:53:32  
Staff ID Last Update: RSUCHAN  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

**MANIFEST:**

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301491  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD984908202  
Transporter 1 AI ID: 37702  
Transporter 1 AI Name: Safety Kleen Corp  
Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: 12/8/1993 0:00:00  
Fac Copy Recd Date: 1993-12-09 00:00:00  
Gen Ship Date: 1993-12-03 00:00:00  
Trans 1 Recd Date: 1993-12-03 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1993-12-03 00:00:00  
Comments: Not reported

**Contact:**

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911  
  
Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

**NAIC:**

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

**Detail:**

Manifest ID: 301491  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 15  
Waste Units Code: AD  
Waste Code List: D001

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301492  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD051060408  
Transporter 1 AI ID: 37854  
Transporter 1 AI Name: Safety Kleen Corp Headquarters  
Transporter 1 Address: 777 Big Timber Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-1488  
Transporter 2 ID: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 1990-06-26 00:00:00  
Gen Ship Date: 1990-06-21 00:00:00  
Trans 1 Recd Date: 1990-06-21 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1990-06-21 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

NAIC:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Detail:

Manifest ID: 301492  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: UN1255  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 90  
Waste Units Code: IB  
Waste Code List: D001

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301493  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: MND000686170  
Transporter 1 AI ID: 8053  
Transporter 1 AI Name: Safety-Kleen Systems Inc - Cloquet  
Transporter 1 Address: 1302 18th St  
Transporter 1 City: Cloquet  
Transporter 1 State: MN  
Transporter 1 ZIP: 55720  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: 6/23/1992 0:00:00  
Fac Copy Recd Date: 1992-06-22 00:00:00  
Gen Ship Date: 1992-06-18 00:00:00  
Trans 1 Recd Date: 1992-06-18 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1992-06-18 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911  
  
Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

**NAIC:**

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

**Detail:**

Manifest ID: 301493  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: UN1255  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 51  
Waste Units Code: IB  
Waste Code List: D001

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301494  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD051060408  
Transporter 1 AI ID: 37854  
Transporter 1 AI Name: Safety Kleen Corp Headquarters  
Transporter 1 Address: 777 Big Timber Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-1488  
Transporter 2 ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: 4/23/1992 0:00:00  
Fac Copy Recd Date: 1992-04-30 00:00:00  
Gen Ship Date: 1992-04-20 00:00:00  
Trans 1 Recd Date: 1992-04-20 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1992-04-20 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

NAIC:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Detail:

Manifest ID: 301494  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: UN1255  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 53  
Waste Units Code: IB  
Waste Code List: D001

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301495  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD984908202  
Transporter 1 AI ID: 37702  
Transporter 1 AI Name: Safety Kleen Corp  
Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 1997-12-15 00:00:00  
Gen Ship Date: 1997-12-08 00:00:00  
Trans 1 Recd Date: 1997-12-08 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1997-12-10 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911  
  
Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

**NAIC:**

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

**Detail:**

Manifest ID: 301495  
Manifest Row: 1  
Haz Material Name: WASTE COMBUSTIBLE LIQUID  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 24  
Waste Units Code: AD  
Waste Code List: D039

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301496  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD051060408  
Transporter 1 AI ID: 37854  
Transporter 1 AI Name: Safety Kleen Corp Headquarters  
Transporter 1 Address: 777 Big Timber Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-1488  
Transporter 2 ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 1990-08-21 00:00:00  
Gen Ship Date: 1990-08-15 00:00:00  
Trans 1 Recd Date: 1990-08-15 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1990-08-15 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

NAIC:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Detail:

Manifest ID: 301496  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: UN1255  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 90  
Waste Units Code: IB  
Waste Code List: D001

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301497  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD984908202  
Transporter 1 AI ID: 37702  
Transporter 1 AI Name: Safety Kleen Corp  
Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: 2/3/1994 0:00:00  
Fac Copy Recd Date: 1994-02-08 00:00:00  
Gen Ship Date: 1994-02-01 00:00:00  
Trans 1 Recd Date: 1994-02-01 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1994-02-01 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911  
  
Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

**NAIC:**

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

**Detail:**

Manifest ID: 301497  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 16  
Waste Units Code: AD  
Waste Code List: D001

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301498  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD051060408  
Transporter 1 AI ID: 37854  
Transporter 1 AI Name: Safety Kleen Corp Headquarters  
Transporter 1 Address: 777 Big Timber Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-1488  
Transporter 2 ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: 6/23/1992 0:00:00  
Fac Copy Recd Date: 1992-06-19 00:00:00  
Gen Ship Date: 1992-06-17 00:00:00  
Trans 1 Recd Date: 1992-06-17 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1992-06-17 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

NAIC:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Detail:

Manifest ID: 301498  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: UN1255  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 54  
Waste Units Code: IB  
Waste Code List: D001

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301499  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD051060408  
Transporter 1 AI ID: 37854  
Transporter 1 AI Name: Safety Kleen Corp Headquarters  
Transporter 1 Address: 777 Big Timber Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-1488  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 1990-10-15 00:00:00  
Gen Ship Date: 1990-10-08 00:00:00  
Trans 1 Recd Date: 1990-10-08 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1990-10-08 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911  
  
Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

**NAIC:**

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

**Detail:**

Manifest ID: 301499  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: UN1255  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 90  
Waste Units Code: IB  
Waste Code List: D001

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301500  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD984908202  
Transporter 1 AI ID: 37702  
Transporter 1 AI Name: Safety Kleen Corp  
Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 1996-03-27 00:00:00  
Gen Ship Date: 1996-03-11 00:00:00  
Trans 1 Recd Date: 1996-03-11 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1996-03-13 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

NAIC:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Detail:

Manifest ID: 301500  
Manifest Row: 1  
Haz Material Name: WASTE COMBUSTIBLE LIQUID  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 33  
Waste Units Code: AD  
Waste Code List: D039

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811-1555  
Manifest ID: 301501  
Generator ID: MND151036019  
Generator AI ID: 4928  
Transporter 1 ID: ILD051060408  
Transporter 1 AI ID: 37854  
Transporter 1 AI Name: Safety Kleen Corp Headquarters  
Transporter 1 Address: 777 Big Timber Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-1488  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND000686170  
TSD AI ID: 8053  
TSD AI Name: Safety-Kleen Systems Inc - Cloquet  
TSD Address: 1302 18th St  
TSD City: Cloquet  
TSD State: MN  
TSD Zip: 55720  
Gen Copy Recd Date: 8/11/1992 0:00:00  
Fac Copy Recd Date: 1992-08-12 00:00:00  
Gen Ship Date: 1992-08-07 00:00:00  
Trans 1 Recd Date: 1992-08-07 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1992-08-07 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-727-2911  
  
Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
Generator Contact: Scott Poulin  
Contact Address: 4535 Airport Approach Rd  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: scottp@monacoairduluth.com  
Contact Phone: 218-727-2911

**NAIC:**

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488119  
NAIC Desc: 488119 - Other Airport Operations

Generator AI ID: 4928  
Generator ID: MND151036019  
Generator AI Name: Monaco Air Duluth  
NAIC Code: 488190  
NAIC Desc: 488190 - Other Support Activities for Air Transportation

**Detail:**

Manifest ID: 301501  
Manifest Row: 1  
Haz Material Name: COMBUSTIBLE LIQUID, NOS  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 100  
Waste Units Code: IB  
Waste Code List: D001

[Click this hyperlink](#) while viewing on your computer to access  
30 additional MN MANIFEST: record(s) in the EDR Site Report.

**NPDES:**

Name: GA APRON EXPANSION - DULUTH AIRPORT  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Active: N  
Activity ID: C00023421  
Preferred ID: Not reported  
Activity Sys ID: 12515123421  
Activity Type: Coverage Termination  
Activity Type Code: 56  
Effective Start Date: 08/06/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

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**MONACO AIR DULUTH (Continued)**

**S107971797**

End Date: 09/29/2007  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.8342399  
Longitude Degree: -92.1927519  
Location Description: Not reported  
New Imp Area: 4.1  
Old Imp Area: 3.51  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Not reported  
Owner Organization Type: Not reported  
Permit Sys ID: 83686  
Project Name: GA Apron Expansion - Duluth Airport  
Project Size: 6.03  
Termination Date: 08/08/2008  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Northland Constructors of Duluth LLC

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Active: Inactive  
Activity ID: MNR0535X5  
Preferred ID: Not reported  
Activity Sys ID: 4928  
Activity Type: Not reported  
Activity Type Code: Not reported  
Effective Start Date: 10/18/2010  
End Date: Not reported  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.8348951  
Longitude Degree: -92.1916141  
Location Description: Site along road used for address match  
New Imp Area: Not reported  
Old Imp Area: Not reported  
Online Submittal: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**MONACO AIR DULUTH (Continued)**

**S107971797**

Other Project Type Description: Not reported  
Owner Name: LLC  
Owner Organization Type: Not reported  
Permit Sys ID: 101553  
Project Name: Not reported  
Project Size: Not reported  
Termination Date: Not reported  
Acres: 35  
Activity Description: Aircraft deicing, fueling and maintenance  
No Exposure: No  
One Mile: Yes  
Permit Type: Industrial Stormwater Permit  
Sector List: S  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
City,State,Zip: DULUTH, MN 55811  
Active: Inactive  
Activity ID: MNR0539XP  
Preferred ID: Not reported  
Activity Sys ID: 4928  
Activity Type: Not reported  
Activity Type Code: Not reported  
Effective Start Date: 02/04/2016  
End Date: Not reported  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: Not reported  
Longitude Degree: Not reported  
Location Description: Not reported  
New Imp Area: Not reported  
Old Imp Area: Not reported  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: LLC  
Owner Organization Type: Not reported  
Permit Sys ID: 1957582  
Project Name: Not reported  
Project Size: Not reported  
Termination Date: Not reported  
Acres: 7  
Activity Description: Aircraft Refueling, Vehicle Refueling, & Aircraft Deicing

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

No Exposure: No  
One Mile: Not reported  
Permit Type: Industrial Stormwater Permit  
Sector List: S  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

**TIER 2:**

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH ROAD  
City,State,Zip: DULUTH, MN 55811  
Year: 2009  
Facility Status: ACTIVE  
Facility Phone: Not reported  
Facility Email: Not reported  
Facility Web: Not reported  
Facility MNCP: Not reported  
SIC: 4581  
NAICS: 488119  
Dunn Brad Num: Not reported  
Contact Type: Not reported  
Time Created: Not reported  
Signed By: Not reported  
Title: Not reported  
Signed Date: Not reported  
Attach Site Plan: Not reported  
Attach Coord Abbr: Not reported  
Attach Safeguard Info: Not reported  
Attach ERP: Not reported  
Hardcopy Attachments: Not reported  
Extension Site Plan: Not reported  
Extension Coord Abbr: Not reported  
Extension Safeguard Info: Not reported  
Extension ERP: Not reported  
Last Updated ERP: Not reported  
Last Tested ERP: Not reported  
Last Reviewed ERP: Not reported  
VZone Primary: Not reported  
VZone Secondary: Not reported  
Modified Date: Not reported  
FIPS County: Not reported  
Latitude/Longitude: /  
User Name: Not reported  
TRIFID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

CMFCL Record ID:	Not reported
SEPC Approved Date ERP:	Not reported
Client System ID:	691250194
Own Country:	Not reported
Site Plan:	Not reported
Confidential Location:	Not reported
Status 302:	UNKNOWN
Status 312:	UNKNOWN
Emergency Contact Name1:	Rob Missinne
Emergency Contact Name2:	Mike Stone
Emergency Contact Name3:	Not reported
Emergency Contact Name4:	Not reported
Emergency Contact 24hr Phone1:	2183905020
Emergency Contact 24hr Phone2:	2183483527
Emergency Contact 24hr Phone3:	Not reported
Emergency Contact 24hr Phone4:	Not reported
Name:	MONACO AIR DULUTH
Address:	4535 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Name:	MONACO AIR DULUTH
Address:	4535 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Name:	MONACO AIR DULUTH
Address:	4535 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
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Address:	4535 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Name:	MONACO AIR DULUTH
Address:	4535 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Name:	MONACO AIR DULUTH
Address:	4535 AIRPORT APPROACH ROAD
City,State,Zip:	DULUTH, MN 55811
Facility Id:	10699
CAS Number:	57556
Chemical Id:	23166
Chemical Name:	PROPYLENE GLYCOL
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	No
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	4
Avg Daily Amt Code:	4
Storage Container Type:	C
Storage Pressure Class:	1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Storage Temperature Class: 4  
Storage Location: ABOVE GROUND IN MAINTENANCE FACILITY  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

**Chemicals:**

Facility Id: 10699  
Chemical Desc ID: 23166  
CAS No: 57556  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Trade Secret: No  
Pure: No  
Mixture: Yes  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: No  
Pressure: No  
Reactivity: No  
Delayed Health Affects: Yes  
Immediate Health Affects: Yes  
Max Daily Amt: 04  
Avg Daily Amt: 04  
Onsite Days: 365  
Max Daily Amt Exact: 55000  
Avg Daily Amt Exact: 27500

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No  
MSDS Attachment ID: No

Storage:

Storage Chem Desc ID: 23166  
Storage Container Type: A  
Storage Pressure: 1  
Storage Temp: 4  
Storage Location: ABOVE GROUND OUTSIDE AT THE EAST END OF TERMINAL BY GATE 4  
Storage ID: 115836  
Storage Confidential: No

Facility Id: 10699  
CAS Number: 8008206  
Chemical Id: 42167  
Chemical Name: FUEL, AVIATION, TURBINE ENGINE  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 5  
Avg Daily Amt Code: 5  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: FUEL FARM  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 68476302  
Chemical Id: 42219  
Chemical Name: DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: FUEL FARM  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 86290815

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Chemical Id: 42168  
Chemical Name: GASOLINES: AVIATION (< 4.86G LEAD/GAL)  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: FUEL FARM  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 57556  
Chemical Id: 23166  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Storage Container Type: C  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: ABOVE GROUND IN MAINTENANCE FACILITY  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Chemicals:

Facility Id: 10699  
Chemical Desc ID: 23166  
CAS No: 57556  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Trade Secret: No  
Pure: No  
Mixture: Yes  
Solid: No  
Liquid: Yes  
Gas: No  
Extremely Haz Substance: No  
Fire: No  
Pressure: No  
Reactivity: No  
Delayed Health Affects: Yes  
Immediate Health Affects: Yes  
Max Daily Amt: 04  
Avg Daily Amt: 04  
Onsite Days: 365



Map ID  
Direction  
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MAP FINDINGS

Site

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**MONACO AIR DULUTH (Continued)**

**S107971797**

Max Daily Amt Exact: 55000  
Avg Daily Amt Exact: 27500  
Modified Date: Not reported  
VZone Primary: No  
VZone Secondary: No  
EHS More Than TPQ: No  
MSDS Attachment ID: No

Storage:

Storage Chem Desc ID: 23166  
Storage Container Type: A  
Storage Pressure: 1  
Storage Temp: 4  
Storage Location: ABOVE GROUND OUTSIDE AT THE EAST END OF TERMINAL BY GATE 4  
Storage ID: 115836  
Storage Confidential: No

Facility Id: 10699  
CAS Number: 86290815  
Chemical Id: 42218  
Chemical Name: GASOLINE  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: FUEL FARM  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 57556  
Chemical Id: Not reported  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 8  
Avg Daily Amt Code: 7  
Storage Container Type: Above ground tank  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Facility Id: 10699  
CAS Number: 57556  
Chemical Id: Not reported  
Chemical Name: PROPYLENE GLYCOL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 8  
Avg Daily Amt Code: 7  
Storage Container Type: Other  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 68476302  
Chemical Id: Not reported  
Chemical Name: DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Max Daily Amt Code: 9  
Avg Daily Amt Code: 7  
Storage Container Type: Other  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10699  
CAS Number: 68476302  
Chemical Id: Not reported  
Chemical Name: DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 9  
Avg Daily Amt Code: 7  
Storage Container Type: Above ground tank  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Contact:

Contact ID: 21398  
Contact Type: T2EC  
Contact Name: Sid Simons  
Contact Title: Facility O  
Sort Order: 1

Device:

Contact Device ID: 21398  
Device Type: Pager  
Device Name: Pager  
Device Value: 5074213717  
Contact ID: 7132

Contact:

Contact ID: 21399  
Contact Type: T2EC  
Contact Name: NWA SOC  
Contact Title: NWA System  
Sort Order: 2

Device:

Contact Device ID: 21399  
Device Type: Phone  
Device Name: Phone

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Device Value: 5073568345  
Contact ID: 7133

[Click this hyperlink](#) while viewing on your computer to access 106 additional MN\_TIER2: record(s) in the EDR Site Report.

WIMN:

Name: MONACO AIR DULUTH  
Address: 4535 AIRPORT APPROACH RD  
Address Description: 4535 Airport Approach Rd  
City,State,Zip: DULUTH, MN 55811-1555  
Status: Y  
Latitude: 46.834895099999997  
Longitude: -92.191614099999995  
Item ID: 4928-AISI0000004928  
AI ID: 4928  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 4928  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Multiple Programs  
Program List: HW; SR; ST; TL  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: 05014201a  
PLS Township: 050  
Range: 14  
Range Direction: W  
Section: 01  
Quarters: a  
Collection Method Code: G8  
Method Description: GPS - Other  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 01/30/2020  
Timestamp of Creation: 07/09/1998  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 03/23/2020  
User Name of Last Update: swright1  
Status Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

The Delta Spatial ID:	Not reported
Activity:	Multiple Activities
Activity List:	Aboveground Tanks; Hazardous Waste, Very small quantity generator; Industrial Stormwater; Petroleum Remediation, Leak Site
MPCA ID:	Multiple IDs
MPCA List:	LS0016301; LS0017312; MND151036019; MNR0535X5; MNR0539XP; TS0122904
Program List:	Hazardous Waste; Investigation and Cleanup; Stormwater; Tanks
Classification:	Other Support Activities for Air Transportation
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/4928">https://webapp.pca.state.mn.us/wimn/site/4928</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.83423991
Longitude:	-92.19275192
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active
Legislative District:	3B
Latitude:	46.83812851
Longitude:	-92.19303145
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Active
Legislative District:	3B
Latitude:	46.83423991
Longitude:	-92.19275192
Activity:	Construction Stormwater Permit
MPCA ID:	C00023421
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive
Name:	GA APRON EXPANSION - DULUTH AIRPORT
Address:	4535 AIRPORT APPROACH RD
Address Description:	4535 Airport Approach Rd
City,State,Zip:	DULUTH, MN 55811
Status:	N
Latitude:	46.8342399
Longitude:	-92.192751900000005
Item ID:	125151-AISI0000125151
AI ID:	125151
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	125151
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Stormwater
Program List:	ST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: A1  
Method Description: Address Matching House Number  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 09/27/2015  
Timestamp of Creation: 08/03/2007  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 04/26/2016  
User Name of Last Update: spatial\_  
Status Date: 08/08/2008  
The Delta Spatial ID: 53331846  
Activity: Construction Stormwater  
Activity List: Construction Stormwater  
MPCA ID: C00023421  
MPCA List: C00023421  
Program List: Stormwater  
Classification: Not reported  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/125151>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
Latitude: 46.83423991  
Longitude: -92.19275192  
Activity: Multiple Activities  
MPCA ID: Multiple Activities  
Major Watershed: St. Louis River  
Coordinate Collection Method: Address Matching House Number  
Status: Active

Legislative District: 3B  
Latitude: 46.83812851  
Longitude: -92.19303145  
Activity: Multiple Activities  
MPCA ID: Multiple Activities  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Active



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MONACO AIR DULUTH (Continued)**

**S107971797**

Legislative District: 3B  
 Latitude: 46.83423991  
 Longitude: -92.19275192  
 Activity: Construction Stormwater Permit  
 MPCA ID: C00023421  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Address Matching House Number  
 Status: Inactive

**C24**  
**WSW**  
 < 1/8  
 0.044 mi.  
 231 ft.

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2**  
**SEE LOCATION DESCRIPTION**  
**DULUTH, MN 55811**  
**Site 4 of 6 in cluster C**

**MN VIC**  
**MN BROWNFIELDS**  
**MN SRS**  
**MN VAPOR**

**S122371030**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1429 ft.**

**VIC:**  
 Name: DULUTH INTERNATIONAL AIRPORT - SITE #102 #2  
 Address: SEE LOCATION DESCRIPTION  
 City,State,Zip: DULUTH, MN 55811  
 Facility ID: VP14731  
 Facility Type: CON  
 Item ID: 11034-AREA0000000003  
 AI ID: 11034  
 AI Name: Duluth International Airport - Site 102  
 Hydro: Mark Elliott (former)  
 Project Manager: Jane Mosel (no longer at MPCA)  
 Latitude: 46.83646725000  
 Longitude: -92.19577822000  
 Coord Collection Method: GPS - Unknown  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/11034>  
 Leak Discovered: Not reported  
 Leak Reported: Not reported  
 Application / Notification Received: 09/09/2005  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Site Closed: 09/04/2008  
 Owner: Not reported  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported

**Prior Aug 2016:**  
 Facility ID: VP14731  
 Facility Address 2: Not reported  
 Core Program Interest ID: 55125742  
 Link ID: 5546  
 Site Type: Other  
 Active?: False  
 Pay Complete: False  
 MPCA Region: Duluth  
 Site Size: 2  
 Score: Not reported  
 Enforcement Lead Agency: MPCA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)

S122371030

Federal Deferral Pilot?:	False
Site Classification A Emergency:	False
Site Classification B O and m:	False
Site Classification C Rd/ra:	False
Site Classification D Ri/fs:	False
Fund Financed:	False
NPL:	False
PLP:	False
District:	North
Program Site Was Referred From:	Not reported
Program Interest:	VIC
Physical Location:	none
Natural Resource Damage:	False
Cleanup Cost:	Not reported
Notes:	This lot is part of a former US Air Force and Air National Guard Administration building facility with adjacent hagers. The VOC contamination, namely TCE, has been detected in soil and ground water samples beneath the Site and adjacent lots during previous investigations. The source and extent of this contamination still is being investigated by the FUDS program. This site is enrolled in the VIC program to facilitate dedevelopment by a private commercial air craft manufacture, Cirrus Design Corporation
Indian Reservation Land?:	False
Reservation Name:	Not reported
MPCA-owned Wells At Site?:	False
Created By:	Pjensen
Created Date:	08/09/2005
Last Update Date:	03/30/2009
Federal Facility?:	False
Primary Funding Source:	Not reported
EPA ID:	Not reported
MPCA ID:	Not reported
Alpha Sort:	Not reported
Legal District:	06B
Congressional District:	8
Public Land Survey Method:	Not reported
Map Scale For PLS Locational Data:	Not reported
Township 2:	Not reported
Range:	Not reported
PLS Township Suffix:	Not reported
Section:	Not reported
PLS Qtr Section (160 Acres):	Not reported
PLS Qtr-Qtr Section (40 Acres):	Not reported
Pls Qtr-Qtr-Qtr Section (10 Acres):	Not reported
Pls Qtr-Qtr-Qtr-Qtr Secion (2.5 Acres):	Not reported
Quad:	Not reported
NAD Number:	83
Desc Of UTM Coord Pt:	Not reported
UTM Coord Pt Data Source:	Not reported
Org Providing UTM Coord Point Data:	Not reported
mpcapgmac:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Date Of Utm Coord Pt Data Collection:	Not reported
COL Date Qual:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)

S122371030

Utm Source:	Not reported
Utm Method:	Not reported
Utm Scale:	Not reported
Utm Accuracy:	Not reported
Utm East:	561327.59999999998
Utm North:	5187305.5199999996
Utm Zone:	15
Basin Code:	1
Major Watershed:	3
Minor Watershed:	3001
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported
PLS Qtr-Qtr Section (40 Acres) 2:	Not reported
PLS Qtr-Qtr Section (10 Acres) 2:	Not reported
PLS Qtr-Qtr Section (2.5 Acres) 2:	Not reported
Quad 2:	Not reported
File Location:	Regional Office
VIC Application GIS:	False
Petroleum Brownfields Prog?:	False
Impact and Response Actions:	
Facid:	VP14731
GW Receipts Prot by Rem Actn:	Not reported
Ecological receptors present:	1
Type of ecological receptors:	Not reported
Acres of contaminated soil:	1
Volume of contaminated soil:	Not reported
Acres of surface water impacted:	Not reported
Acres of wetland impacted:	Not reported
Acres of sediment impacted:	Not reported
GW Plume Area Acres:	2
Cleanup Conducted:	1
Acres of Contam Soil remediate:	Not reported
Volume of Soil Cleaned:	Not reported
# Municipal wells contamd:	0
# Dom wells contam:	0
# People Impct SW intake contam:	Not reported
# Drums Revolved from site:	Not reported
Yr Soil Remediated:	Not reported
Acres of Soil w/ Restrict Access:	Not reported
Yr IC remedy complete:	Not reported
Yr GW remedy completed:	Not reported
Year GWIC completed:	Not reported
Acres of wetland of sediment remediated:	Not reported
Public financing:	1
Assurance help:	1
Land use Classfn At Site:	Not reported
Land use Vicinity Of Site:	Not reported
Deed notif Present On Site:	1
Restrictive Covenant Present:	1
Restrictions:	Not reported
GW Pump and Treat Used at site:	1

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Quaternary Perched: 1  
 Quaternary Water Table: 1  
 Quaternary Confined: 1  
 Cretaceous: 1  
 Plattville: 1  
 St. peter: 1  
 Prairie Duchien: 1  
 Jordan: 1  
 Ironton/Galesville: 1  
 Mt Simon Hinckley: 1  
 Precambrian Undifferentiated: 1  
 Other/Unknown Aquifer: 1  
 Date Info Last Updated: 2006-02-23 00:00:00  
 Inst Control Info Updated: 2005-10-17 00:00:00  
 Inst Control Filed Location: Not reported  
 SW Classification (Primary): Not reported  
 SW Classification (Secondary): Not reported  
 Miscellaneous: Not reported  
 SW Comments: Not reported

**Site Event Log:**

Date Started: 2007-06-28 00:00:00  
 Date End: 2007-06-28 00:00:00  
 Planned Start Date: Not reported  
 Planned End Date: Not reported  
 Last Update: 2007-07-31 00:00:00  
 Facid: VP14731  
 Event: 1  
 Additional Information: Site Status Meeting with S E H  
 Record Number: 27293

Date Started: Not reported  
 Date End: Not reported  
 Planned Start Date: 2007-03-28 00:00:00  
 Planned End Date: 2007-03-29 00:00:00  
 Last Update: 2007-03-26 00:00:00  
 Facid: VP14731  
 Event: 1  
 Additional Information: Request for Additional Information  
 Record Number: 26730

Date Started: Not reported  
 Date End: Not reported  
 Planned Start Date: 2007-03-29 00:00:00  
 Planned End Date: 2007-03-29 00:00:00  
 Last Update: 2007-03-26 00:00:00  
 Facid: VP14731  
 Event: 1  
 Additional Information: Site Status Meeting  
 Record Number: 26731

Date Started: 2005-11-05 00:00:00  
 Date End: Not reported  
 Planned Start Date: 2005-11-01 00:00:00  
 Planned End Date: 2005-11-30 00:00:00  
 Last Update: 2005-11-16 00:00:00  
 Facid: VP14731

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)

S122371030

Event:	1
Additional Information:	review of additional soil and ground water investigation work
Record Number:	24467
Date Started:	2005-10-01 00:00:00
Date End:	Not reported
Planned Start Date:	2005-10-01 00:00:00
Planned End Date:	2005-11-30 00:00:00
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	review and approval of development response action plan
Record Number:	24468
Date Started:	2005-11-01 00:00:00
Date End:	Not reported
Planned Start Date:	2005-11-15 00:00:00
Planned End Date:	2005-11-30 00:00:00
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	contaminated soil removed for site development
Record Number:	24469
Date Started:	2005-10-01 00:00:00
Date End:	2005-10-21 00:00:00
Planned Start Date:	2005-09-15 00:00:00
Planned End Date:	2005-10-15 00:00:00
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	Work Plan developed for additional investigation and DRAP verification sampling
Record Number:	24470
Date Started:	2005-10-18 00:00:00
Date End:	2005-10-18 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	observed investigaiton work
Record Number:	24471
Date Started:	2005-10-19 00:00:00
Date End:	2005-10-19 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	observed investigaiton work
Record Number:	24472
Date Started:	2005-11-15 00:00:00
Date End:	2005-11-15 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-11-16 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: site meeting and observed excavation and stockpiling work  
Record Number: 24473

Date Started: 2005-10-10 00:00:00  
Date End: Not reported  
Planned Start Date: 2005-10-01 00:00:00  
Planned End Date: 2005-10-20 00:00:00  
Last Update: 2005-11-16 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Investigation work plan review and approval  
Record Number: 24474

Date Started: 2005-11-05 00:00:00  
Date End: Not reported  
Planned Start Date: 2005-11-05 00:00:00  
Planned End Date: 2005-11-30 00:00:00  
Last Update: 2005-11-16 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: DRAP approval letter  
Record Number: 24475

Date Started: 2006-01-24 00:00:00  
Date End: 2006-02-22 00:00:00  
Planned Start Date: 2006-01-24 00:00:00  
Planned End Date: 2006-02-10 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: approve stockpile relocation plan  
Record Number: 24823

Date Started: 2006-01-16 00:00:00  
Date End: 2006-02-08 00:00:00  
Planned Start Date: 2006-01-16 00:00:00  
Planned End Date: 2006-02-01 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: NAD issued to Midland Life Insurance Company  
Record Number: 24824

Date Started: 2006-01-16 00:00:00  
Date End: 2006-02-08 00:00:00  
Planned Start Date: 2006-01-16 00:00:00  
Planned End Date: 2006-02-01 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: RNAD issued to Cirrus  
Record Number: 24825

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Date Started: 2006-02-02 00:00:00  
Date End: 2006-02-02 00:00:00  
Planned Start Date: 2006-02-02 00:00:00  
Planned End Date: 2006-02-03 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: site meeting DAA to discuss relocating stockpiled soil  
Record Number: 24826

Date Started: 2005-11-15 00:00:00  
Date End: 2005-12-22 00:00:00  
Planned Start Date: 2005-11-15 00:00:00  
Planned End Date: 2006-12-31 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: comment letter sent regarding vapor barrier and venting system planned for new building  
Record Number: 24827

Date Started: 2000-05-01 00:00:00  
Date End: 2001-03-31 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Soil and ground water samples collect by MANG on site during investigation of neighboring property  
Record Number: 24266

Date Started: 2001-05-01 00:00:00  
Date End: 2001-05-01 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Several round of soil and ground water samples collected on site by DAA contractor as part of a predevelopment assessment -- data submitted to the MPCA, but no reports prepared  
Record Number: 24267

Date Started: 2003-09-15 00:00:00  
Date End: 2003-09-15 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: MPCA staff meets with DAA and FUDS program staff at site to discuss possible FUDS investigation work  
Record Number: 24268

Date Started: 2004-07-01 00:00:00  
Date End: 2004-07-31 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Planned Start Date: 2004-05-01 00:00:00  
Planned End Date: 2004-08-31 00:00:00  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Soil and ground water sampling conducted by FUDS investigation on the Site-- Approximately 15 soil boring and monitoring wells installed on site and neighboring lots  
Record Number: 24269

Date Started: 2003-09-01 00:00:00  
Date End: 2004-05-20 00:00:00  
Planned Start Date: 2003-08-01 00:00:00  
Planned End Date: 2004-10-31 00:00:00  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Site Research Report conducted by FUDS program  
Record Number: 24270

Date Started: 2003-08-01 00:00:00  
Date End: 2004-07-01 00:00:00  
Planned Start Date: 2003-08-31 00:00:00  
Planned End Date: 2004-05-01 00:00:00  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: FUDS Investigational Work Plan  
Record Number: 24271

Date Started: 2005-09-01 00:00:00  
Date End: 2005-10-18 00:00:00  
Planned Start Date: 2005-05-01 00:00:00  
Planned End Date: Not reported  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Phase II Investigation Work Plan for Cirrus Development Site Investigation  
Record Number: 24272

Date Started: 2005-05-01 00:00:00  
Date End: 2005-05-31 00:00:00  
Planned Start Date: 2005-05-01 00:00:00  
Planned End Date: 2005-06-15 00:00:00  
Last Update: 2005-11-16 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: soil and groundwater samples collected during geotechnical investigation work  
Record Number: 24464

Date Started: 2005-10-15 00:00:00  
Date End: Not reported  
Planned Start Date: 2005-10-01 00:00:00  
Planned End Date: 2005-11-30 00:00:00  
Last Update: 2005-11-16 00:00:00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Facid: VP14731  
Event: 1  
Additional Information: additional soil and ground water sampling and investigation work  
Record Number: 24465

Date Started: 2005-10-15 00:00:00  
Date End: Not reported  
Planned Start Date: 2005-10-01 00:00:00  
Planned End Date: 2005-11-30 00:00:00  
Last Update: 2005-11-16 00:00:00

Facid: VP14731  
Event: 1  
Additional Information: additional soil and ground water investigation work  
Record Number: 24466

Date Started: 2005-09-09 00:00:00  
Date End: Not reported  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-09-12 00:00:00

Facid: VP14731  
Event: 1  
Additional Information: None Entered  
Record Number: 38892

Contact Info:

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: Not reported  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: Not reported  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: 5  
Cleanup Lvl Measure Units: ug/L  
Basis For Req Cleanup Lvl: HRL (Health Risk Limit)  
Max Residual Contamination: 4600  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: 70  
Cleanup Lvl Measure Units: ug/L  
Basis For Req Cleanup Lvl: HRL (Health Risk Limit)  
Max Residual Contamination: 257  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: ug/L  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: 2  
Date Info Last Updated: 2005-10-17 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)

S122371030

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: ug/L  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: 65000  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: Not reported  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: Not reported  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: mg/Kg  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: 200  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: 0.07  
Cleanup Lvl Measure Units: mg/Kg  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: 2.02  
Date Info Last Updated: 2005-10-17 00:00:00

Contacts:

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3351

Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 401 East First Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported

Map ID  
Direction  
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)

S122371030

Contact Phone: 2187233556  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Contact Type: 1  
Company Name: MPCA  
Contact Address: 525 Lake Avenue South, Suite 400  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2185296269  
Contact Phone Ext: Not reported  
Contact Fax: 2187234727  
Contact E-mail: mark.elliott@state.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2005-09-12 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3229

Contact Type: 1  
Company Name: Duluth Airport Authority  
Contact Address: 4701 Grinden Drive  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187272698  
Contact Phone Ext: Not reported  
Contact Fax: 2187272960  
Contact E-mail: bryks@ci.duluth.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2005-09-12 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: T  
Staff Id Num: 0

Contact Type: 1  
Company Name: SEH, Inc.  
Contact Address: 418 West Superior Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2182793022  
Contact Phone Ext: Not reported  
Contact Fax: 2182793001  
Contact E-mail: creichhoff@sehinc.com  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2005-09-12 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

**BROWNFIELDS:**

Name: DULUTH INTERNATIONAL AIRPORT - SITE #102 #2  
Address: SEE LOCATION DESCRIPTION  
City,State,Zip: DULUTH, MN 55811  
Site ID: VP14731  
Leak Num: Not reported  
Owner Name: Unknown  
Leak Source: Not reported  
Response Action Date: Not reported  
Site Acreage: Not reported  
Item Id: 11034-AREA0000000003  
AI ID: 11034  
AI Name: Duluth International Airport - Site 102  
Site type: BROWNFIELD  
Hydro: Mark Elliott (former)  
Project Manager: Jane Mosel (no longer at MPCA)  
Coord Collection Method: Not reported  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/11034>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 09/04/2008  
Owner Address: 520 Lafayette Rd N  
Owner City: Saint Paul  
Owner State: MN  
Owner ZIP: 55155  
Latitude: 46.83646725000  
Longitude: -92.19577822000

**SRS:**

Name: DULUTH INTERNATIONAL AIRPORT - SITE #102 #2  
Address: SEE LOCATION DESCRIPTION  
City,State,Zip: DULUTH, MN 55811  
Facility ID: VP14731  
Item ID: 11034-AREA0000000003  
AI ID: 11034  
AI Name: Duluth International Airport - Site 102  
Facility Type: BROW  
Hydro: Mark Elliott (former)  
Project Manager: Jane Mosel (no longer at MPCA)  
Latitude: 46.83646725000  
Longitude: -92.19577822000  
Coord Collection Method: GPS - Unknown  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/11034>  
Leak Discovered: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Leak Reported:	Not reported
Application / Notification Received:	09/09/2005
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	09/04/2008
Owner:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
Acreage:	2.00000000
BPET:	Not reported
BVIC:	Y
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW20050002
Act Desc:	Brownfield Site
Status:	Closed
Prior Aug 2016:	
Facility ID:	VP14731
Facility Address 2:	Not reported
Core Program Interest ID:	55125742
Link ID:	5546
Site Type:	Other
Active?:	False
Pay Complete:	False
MPCA Region:	Duluth
Site Size:	2
Score:	Not reported
Enforcement Lead Agency:	MPCA
Federal Deferral Pilot?:	False
Site Classification A Emergency:	False
Site Classification B O and m:	False
Site Classification C Rd/ra:	False
Site Classification D Ri/fs:	False
Fund Financed:	False
NPL:	False
PLP:	False
District:	North
Program Site Was Referred From:	Not reported
Program Interest:	VIC
Physical Location:	none
Natural Resource Damage:	False
Cleanup Cost:	Not reported
Notes:	This lot is part of a former US Air Force and Air National Guard Administration building facility with adjacent hangers. The VOC contamination, namely TCE, has been detected in soil and ground water samples beneath the Site and adjacent lots during previous investigations. The source and extent of this contamination still is being investigated by the FUDS program. This site is enrolled in the VIC program to facilitate redevelopment by a private commercial air craft manufacture, Cirrus Design Corporation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)

S122371030

Indian Reservation Land?:	False
Reservation Name:	Not reported
MPCA-owned Wells At Site?:	False
Created By:	Pjensen
Created Date:	08/09/2005
Last Update Date:	03/30/2009
Federal Facility?:	False
Primary Funding Source:	Not reported
EPA ID:	Not reported
MPCA ID:	Not reported
Alpha Sort:	Not reported
Legal District:	06B
Congressional District:	8
Public Land Survey Method:	Not reported
Map Scale For PLS Locational Data:	Not reported
Township:	Not reported
Range:	Not reported
PLS Township Suffix:	Not reported
Section:	Not reported
PLS Qtr Section (160 Acres):	Not reported
PLS Qtr-Qtr Section (40 Acres):	Not reported
PLS Qtr-Qtr-Qtr Section (10 Acres):	Not reported
PLS Qtr-Qtr-Qtr Section (10 Acres):	Not reported
Quad:	Not reported
NAD Number:	83
Desc Of UTM Coord Pt:	Not reported
Desc Of UTM Coord Pt:	Not reported
Desc Of UTM Coord Pt:	Not reported
mpcapgmac:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported
Utm Source:	Not reported
Utm Method:	Not reported
Utm Scale:	Not reported
Utm Accuracy:	Not reported
Utm East:	561327.59999999998
Utm North:	5187305.51999999996
Utm Zone:	15
Basin Code:	1
Major Watershed:	3
Minor Watershed:	3001
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported
PLS Qtr-Qtr Section (40 Acres) 2:	Not reported
PLS Qtr-Qtr Section (10 Acres) 2:	Not reported
PLS Qtr-Qtr Section (2.5 Acres) 2:	Not reported
Quad 2:	Not reported
File Location:	Regional Office
VIC Application GIS:	False

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Petroleum Brownfields Prog?:	False
Impact and Response Actions:	
Facid:	VP14731
GW Receipts Prot by Rem Actn:	Not reported
Ecological receptors present:	1
Type of ecological receptors:	Not reported
Acres of contaminated soil:	1
Volume of contaminated soil:	Not reported
Acres of surface water impacted:	Not reported
Acres of wetland impacted:	Not reported
Acres of sediment impacted:	Not reported
GW Plume Area Acres:	2
Cleanup Conducted:	1
Acres of Contam Soil remediate:	Not reported
Volume of Soil Cleaned:	Not reported
# Municipal wells contamd:	0
# Dom wells contam:	0
# People Impct SW intake contam:	Not reported
# Drums Revolved from site:	Not reported
Yr Soil Remediated:	Not reported
Acres of Soil w/ Restrict Access:	Not reported
Yr IC remedy complete:	Not reported
Yr GW remedy completed:	Not reported
Year GWIC completed:	Not reported
Acres of wetland of sediment remediated:	Not reported
Public financing:	1
Assurance help:	1
Land use Classfn At Site:	Not reported
Land use Vicinity Of Site:	Not reported
Deed notif Present On Site:	1
Restrictive Covenant Present:	1
Restrictions:	Not reported
GW Pump and Treat Used at site:	1
Quaternary Perched:	1
Quaternary Water Table:	1
Quaternary Confined:	1
Cretaceous:	1
Plattville:	1
St. peter:	1
Prairie Duchien:	1
Jordan:	1
Ironton/Galesville:	1
Mt Simon Hinckley:	1
Precambrian Undifferentiated:	1
Other/Unknown Aquifer:	1
Date Info Last Updated:	2006-02-23 00:00:00
Inst Control Info Updated:	2005-10-17 00:00:00
Inst Control Filed Location:	Not reported
SW Classification (Primary):	Not reported
SW Classification (Secondary):	Not reported
Miscellaneous:	Not reported
SW Comments:	Not reported
Site Event Log:	
Date Started:	2007-06-28 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Date End:	2007-06-28 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2007-07-31 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	Site Status Meeting with S E H
Record Number:	27293
Date Started:	Not reported
Date End:	Not reported
Planned Start Date:	2007-03-28 00:00:00
Planned End Date:	2007-03-29 00:00:00
Last Update:	2007-03-26 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	Request for Additional Information
Record Number:	26730
Date Started:	Not reported
Date End:	Not reported
Planned Start Date:	2007-03-29 00:00:00
Planned End Date:	2007-03-29 00:00:00
Last Update:	2007-03-26 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	Site Status Meeting
Record Number:	26731
Date Started:	2005-11-05 00:00:00
Date End:	Not reported
Planned Start Date:	2005-11-01 00:00:00
Planned End Date:	2005-11-30 00:00:00
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	review of additional soil and ground water investigation work
Record Number:	24467
Date Started:	2005-10-01 00:00:00
Date End:	Not reported
Planned Start Date:	2005-10-01 00:00:00
Planned End Date:	2005-11-30 00:00:00
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	review and approval of development response action plan
Record Number:	24468
Date Started:	2005-11-01 00:00:00
Date End:	Not reported
Planned Start Date:	2005-11-15 00:00:00
Planned End Date:	2005-11-30 00:00:00
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	contaminated soil removed for site development



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Record Number:	24469
Date Started:	2005-10-01 00:00:00
Date End:	2005-10-21 00:00:00
Planned Start Date:	2005-09-15 00:00:00
Planned End Date:	2005-10-15 00:00:00
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	Work Plan developed for additional investigation and DRAP verification sampling
Record Number:	24470
Date Started:	2005-10-18 00:00:00
Date End:	2005-10-18 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	observed investigaiton work
Record Number:	24471
Date Started:	2005-10-19 00:00:00
Date End:	2005-10-19 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	observed investigaiton work
Record Number:	24472
Date Started:	2005-11-15 00:00:00
Date End:	2005-11-15 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	site meeting and observed excavation and stockpiling work
Record Number:	24473
Date Started:	2005-10-10 00:00:00
Date End:	Not reported
Planned Start Date:	2005-10-01 00:00:00
Planned End Date:	2005-10-20 00:00:00
Last Update:	2005-11-16 00:00:00
Facid:	VP14731
Event:	1
Additional Information:	Investigation work plan review and approval
Record Number:	24474
Date Started:	2005-11-05 00:00:00
Date End:	Not reported
Planned Start Date:	2005-11-05 00:00:00
Planned End Date:	2005-11-30 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Last Update: 2005-11-16 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: DRAP approval letter  
Record Number: 24475

Date Started: 2006-01-24 00:00:00  
Date End: 2006-02-22 00:00:00  
Planned Start Date: 2006-01-24 00:00:00  
Planned End Date: 2006-02-10 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: approve stockpile relocation plan  
Record Number: 24823

Date Started: 2006-01-16 00:00:00  
Date End: 2006-02-08 00:00:00  
Planned Start Date: 2006-01-16 00:00:00  
Planned End Date: 2006-02-01 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: NAD issued to Midland Life Insurance Company  
Record Number: 24824

Date Started: 2006-01-16 00:00:00  
Date End: 2006-02-08 00:00:00  
Planned Start Date: 2006-01-16 00:00:00  
Planned End Date: 2006-02-01 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: RNAD issued to Cirrus  
Record Number: 24825

Date Started: 2006-02-02 00:00:00  
Date End: 2006-02-02 00:00:00  
Planned Start Date: 2006-02-02 00:00:00  
Planned End Date: 2006-02-03 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: site meeting DAA to discuss relocating stockpiled soil  
Record Number: 24826

Date Started: 2005-11-15 00:00:00  
Date End: 2005-12-22 00:00:00  
Planned Start Date: 2005-11-15 00:00:00  
Planned End Date: 2006-12-31 00:00:00  
Last Update: 2006-02-23 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: comment letter sent regarding vapor barrier and venting system planned for new building  
Record Number: 24827

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Date Started: 2000-05-01 00:00:00  
Date End: 2001-03-31 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Soil and ground water samples collect by MANG on site during investigation of neighboring property  
Record Number: 24266

Date Started: 2001-05-01 00:00:00  
Date End: 2001-05-01 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Several round of soil and ground water samples collected on site by DAA contractor as part of a predevelopment assessment -- data submitted to the MPCA, but no reports prepatad  
Record Number: 24267

Date Started: 2003-09-15 00:00:00  
Date End: 2003-09-15 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: MPCA staff meets with DAA and FUDS program staff at site to discuss possible FUDS investigation work  
Record Number: 24268

Date Started: 2004-07-01 00:00:00  
Date End: 2004-07-31 00:00:00  
Planned Start Date: 2004-05-01 00:00:00  
Planned End Date: 2004-08-31 00:00:00  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Soil and ground water sampling conducted by FUDS investigation on the Site-- Approximately 15 soil boring and monitoring wells installed on site and neighboring lots  
Record Number: 24269

Date Started: 2003-09-01 00:00:00  
Date End: 2004-05-20 00:00:00  
Planned Start Date: 2003-08-01 00:00:00  
Planned End Date: 2004-10-31 00:00:00  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Site Research Report conducted by FUDS program  
Record Number: 24270

Date Started: 2003-08-01 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Date End: 2004-07-01 00:00:00  
Planned Start Date: 2003-08-31 00:00:00  
Planned End Date: 2004-05-01 00:00:00  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: FUDS Investigation Work Plan  
Record Number: 24271

Date Started: 2005-09-01 00:00:00  
Date End: 2005-10-18 00:00:00  
Planned Start Date: 2005-05-01 00:00:00  
Planned End Date: Not reported  
Last Update: 2005-10-17 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: Phase II Investigation Work Plan for Cirrus Development Site Investigation  
Record Number: 24272

Date Started: 2005-05-01 00:00:00  
Date End: 2005-05-31 00:00:00  
Planned Start Date: 2005-05-01 00:00:00  
Planned End Date: 2005-06-15 00:00:00  
Last Update: 2005-11-16 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: soil and groundwater samples collected during geotechnical investigation work  
Record Number: 24464

Date Started: 2005-10-15 00:00:00  
Date End: Not reported  
Planned Start Date: 2005-10-01 00:00:00  
Planned End Date: 2005-11-30 00:00:00  
Last Update: 2005-11-16 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: additional soil and ground water sampling and investigation work  
Record Number: 24465

Date Started: 2005-10-15 00:00:00  
Date End: Not reported  
Planned Start Date: 2005-10-01 00:00:00  
Planned End Date: 2005-11-30 00:00:00  
Last Update: 2005-11-16 00:00:00  
Facid: VP14731  
Event: 1  
Additional Information: additional soil and ground water investigation work  
Record Number: 24466

Date Started: 2005-09-09 00:00:00  
Date End: Not reported  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2005-09-12 00:00:00  
Facid: VP14731

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Event: 1  
Additional Information: None Entered  
Record Number: 38892

Contact Info:

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: Not reported  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: Not reported  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: 5  
Cleanup Lvl Measure Units: ug/L  
Basis For Req Cleanup Lvl: HRL (Health Risk Limit)  
Max Residual Contamination: 4600  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: 70  
Cleanup Lvl Measure Units: ug/L  
Basis For Req Cleanup Lvl: HRL (Health Risk Limit)  
Max Residual Contamination: 257  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: ug/L  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: 2  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: ug/L  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: 65000  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: Not reported  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: Not reported  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: Not reported  
Cleanup Lvl Measure Units: mg/Kg

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: 200  
Date Info Last Updated: 2005-10-17 00:00:00

Contaminant Id: 1  
Contaminated Media: 1  
Req Cleanup Concluded: 0.07  
Cleanup Lvl Measure Units: mg/Kg  
Basis For Req Cleanup Lvl: Not reported  
Max Residual Contamination: 2.02  
Date Info Last Updated: 2005-10-17 00:00:00

Contacts:

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3351

Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 401 East First Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187233556  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-06-26 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Contact Type: 1  
Company Name: MPCA  
Contact Address: 525 Lake Avenue South, Suite 400  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2185296269  
Contact Phone Ext: Not reported  
Contact Fax: 2187234727

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - SITE #102 #2 (Continued)**

**S122371030**

Contact E-mail: mark.elliott@state.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2005-09-12 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3229

Contact Type: 1  
Company Name: Duluth Airport Authority  
Contact Address: 4701 Grinden Drive  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187272698  
Contact Phone Ext: Not reported  
Contact Fax: 2187272960  
Contact E-mail: bryks@ci.duluth.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2005-09-12 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: T  
Staff Id Num: 0

Contact Type: 1  
Company Name: SEH, Inc.  
Contact Address: 418 West Superior Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2182793022  
Contact Phone Ext: Not reported  
Contact Fax: 2182793001  
Contact E-mail: creichhoff@sehinc.com  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2005-09-12 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

**VAPOR:**

Name: DULUTH INTERNATIONAL AIRPORT - SITE #102 #2  
Address: SEE LOCATION DESCRIPTION  
City,State,Zip: DULUTH, MN  
Site ID: VP14731  
Delta Site ID: 11034  
WIMN Link: <https://webapp.pca.state.mn.us/wimn/site/11034>  
AI Name: Duluth International Airport - Site 102  
Vapor Concern at Site: Yes: Priority Superfund Site  
Vapor Reassessment: Yes  
Item ID: 11034-AREA0000000003  
Site Type: Brownfield Site  
Method Desc: GPS - Unknown  
Latitude: 46.83646725  
Longitude: -92.19577822

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**C25**  
**WSW**  
**< 1/8**  
**0.047 mi.**  
**249 ft.**

**FEDERAL PRISON CAMP**  
**4464 RALSTON DR**  
**DULUTH, MN 55811**

**MN AST** **A100296856**  
**N/A**

**Site 5 of 6 in cluster C**

**Relative:**  
**Lower**

**AST:**

**Actual:**  
**1429 ft.**

Name: FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811  
AI ID: 139885  
Tank Site ID: TS0005045  
Item ID: 139885-EQUI0000000011  
SI Type: Aboveground Storage Tank  
SI Design: 1001  
SI Description: 4,000 gal/Gasoline Blends (E1-E49)/Active  
Substance: Gasoline Blends (E1-E49)  
Compartment Number: 1  
Wall Type: Double  
Overfill Prevention System: AST Sight glass/gauge  
Install Date: 1993-06-15 00:00:00  
Status Change Date: 2006-03-07 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 4000  
Longitude: -92.19343711  
Latitude: 46.83580938  
Coord Collection Method: GPS - Unknown  
Owner Name: Federal Bureau Of Prisons  
Owner Address: PO Box 1400  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55814  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005045>

**AST Prior to 08/2016:**

Program Interest ID: 194442  
Facility Addr 2: Not reported  
Address ID: 69152438  
MPCA Tank Number: 1001  
Above/Under Ground: 1  
Piping Cathodic Protection: Not reported  
Tank Cathodic Protection: Not reported  
Substance: 14  
Client Tank Number: 1001  
AST Base Material: 11  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: 1  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: Not reported  
Tank Status Code: 3  
Tank Capacity: 4000  
Tank Registration Date: 03/07/2006 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 04/28/2006 13:50:09  
Date Last Updated: 09/03/2013 14:06:01  
Staff Id Who Did The Last Update: NBLASIN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 5045

Program Interest ID: 194442  
Facility Addr 2: Not reported  
Address ID: 69152438  
MPCA Tank Number: 1002  
Above/Under Ground: 1  
Piping Cathodic Protection: Not reported  
Tank Cathodic Protection: Not reported  
Substance: 10  
Client Tank Number: 1002  
AST Base Material: 11  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: Not reported  
Tank Status Code: 3  
Tank Capacity: 1000  
Tank Registration Date: 03/07/2006 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 04/28/2006 13:52:18  
Date Last Updated: 01/07/2013 10:41:41  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 5045

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: SFRYE  
Program Id: 194442  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

TMSP Added: 08/08/2014 11:50:32  
Date Last Updated: 08/08/2014 11:50:32  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 7.33  
Longitude Degree: -92  
Longitude Minute: 11  
Longitude Second: 35.63  
Staff Id Who Did The Last Update: MAPTOOL  
Program Id: 194442  
Latlong ID: 198616  
Collection Date: 04/16/2015 10:29:55  
LatLong Description: Not reported  
TMSP Added: 05/23/2012 17:57:38  
Date Last Updated: 04/16/2015 10:29:55  
Coord Source Type: Not reported  
Org Name Source: Not reported

Insrem:

Piping Material: Not reported  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: JHENRY

Piping Material: Not reported  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: JHENRY

Piping Material: 2  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Piping Material: 2  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Piping Material: 2  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Tab site:

Facility Code: 14  
Staff Id Who Did The Last Update: JHENRY  
Program Interest Id: 194442  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: 04/23/1986 00:00:00  
AST Registration Date: 03/07/2006 00:00:00  
Date Added: 07/23/1992 19:11:05  
Date Last Updated: 04/28/2006 13:49:22  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

Tank A:

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 1001  
Above Or Underground: 1  
Tank Action ID: 902656  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 06/15/1993 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 04/28/2006 13:51:51  
Date Last Updated: 04/28/2006 13:51:51

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 1002  
Above Or Underground: 1  
Tank Action ID: 902657  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 06/15/1993 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 04/28/2006 13:53:17  
Date Last Updated: 04/28/2006 13:53:17

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 001  
Above Or Underground: 1  
Tank Action ID: 291387  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 002  
Above Or Underground: 1  
Tank Action ID: 278183  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 003  
Above Or Underground: 1  
Tank Action ID: 284894  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 004  
Above Or Underground: 1  
Tank Action ID: 244096  
Contractor Number: 165  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 06/08/1994 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 004  
Above Or Underground: 1  
Tank Action ID: 278184  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 005  
Above Or Underground: 1  
Tank Action ID: 248106  
Contractor Number: 165  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 06/08/1994 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

MPCA Tank Number: 005  
Above Or Underground: 1  
Tank Action ID: 284895  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 006  
Above Or Underground: 1  
Tank Action ID: 304718  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 007  
Above Or Underground: 1  
Tank Action ID: 298001  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 008  
Above Or Underground: 1  
Tank Action ID: 304887  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

Above Or Underground: 1  
Tank Action ID: 284896  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 010  
Above Or Underground: 1  
Tank Action ID: 317808  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1900 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:30:09  
Date Last Updated: 05/04/2002 07:56:50

Tank C:

MPCA Tank Number: 002  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 14  
Tank Stored Product Desc: GASOLINE  
Compartment Cap: 10000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:57:54  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 004  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 14  
Tank Stored Product Desc: GASOLINE  
Compartment Cap: 5000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:57:54  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 010  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 10000  
Heating: 1  
Other Desc: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

Date Added: 10/10/1999 10:58:35  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 008  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 800  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:26  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 006  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 24  
Tank Stored Product Desc: WASTE OIL  
Compartment Cap: 500  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:22  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 007  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 500  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:15  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 001  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 14  
Tank Stored Product Desc: GASOLINE  
Compartment Cap: 10000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:08  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 003  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 14  
Tank Stored Product Desc: GASOLINE  
Compartment Cap: 8000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:01  
Date Last Updated: 05/04/2002 07:56:50

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

MPCA Tank Number: 005  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 14  
Tank Stored Product Desc: GASOLINE  
Compartment Cap: 5000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:01  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 009  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 500  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:01  
Date Last Updated: 05/04/2002 07:56:50

MPCA Tank Number: 1001  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 14  
Tank Stored Product Desc: Not reported  
Compartment Cap: 4000  
Heating: 1  
Other Desc: Not reported  
Date Added: 04/28/2006 13:50:09  
Date Last Updated: 04/28/2006 13:50:09

MPCA Tank Number: 1002  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 10  
Tank Stored Product Desc: Not reported  
Compartment Cap: 1000  
Heating: 1  
Other Desc: Not reported  
Date Added: 04/28/2006 13:52:18  
Date Last Updated: 04/28/2006 13:52:18

Name: FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811  
Al ID: 139885  
Tank Site ID: TS0005045  
Item ID: 139885-EQUI0000000012  
SI Type: Aboveground Storage Tank  
SI Design: 1002  
SI Description: 1,000 gal/Diesel Fuel/Active  
Substance: Diesel Fuel  
Compartment Number: 1  
Wall Type: Single



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FEDERAL PRISON CAMP (Continued)**

**A100296856**

Overfill Prevention System: AST Sight glass/gauge  
 Install Date: 1993-06-15 00:00:00  
 Status Change Date: 2006-03-07 00:00:00  
 Material: Carbon steel  
 Tank Status: Active  
 Tanks Contractor: Not reported  
 Capacity Gallon: 1000  
 Longitude: -92.19343711  
 Latitude: 46.83580938  
 Coord Collection Method: GPS - Unknown  
 Owner Name: Federal Bureau Of Prisons  
 Owner Address: PO Box 1400  
 Owner City: Duluth  
 Owner State: MN  
 Owner Zip: 55814  
 Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005045>

**C26**  
**WSW**  
**< 1/8**  
**0.047 mi.**  
**249 ft.**

**BUREAU OF PRISONS/DEPT OF JUSTICE**  
**4464 RALSTON DR**  
**DULUTH, MN 55811**  
**Site 6 of 6 in cluster C**

**MN LUST S111873402**  
**MN LAST N/A**  
**MN SRS**  
**MN Financial Assurance**  
**MN MANIFEST**  
**MN TIER 2**  
**MN WIMN**

**Relative:**  
**Lower**

**Actual:**  
**1429 ft.**

**LUST:**  
 Name: FEDERAL PRISON CAMP  
 Address: 4464 RALSTON DR  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 139885-AREA0000000003  
 MNPCA ID: 220068  
 AI ID: 139885  
 AI Name: Federal Prison Camp  
 Site Type: Leak Site  
 Hydro: Not reported  
 Project Manager: James Joslyn (no longer at MPCA)  
 Latitude: 46.83537602  
 Longitude: -92.1932285  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/139885>  
 Leak Discovered: 06/08/1994  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Federal Bureau Of Prisons  
 Site Closed: 04/04/1995  
 Owner Address: PO Box 1400  
 Owner City: Duluth  
 Owner State: MN  
 Owner ZIP: 55814  
 SI Type: Underground Storage Tank System  
 Leak Reported: 06/09/1994

0816:  
 Program IN: 220068

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 7453  
Township Name: Not reported  
Addr ID: 69152438  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 04/22/1997 00:00:00  
Interest End Date: 11/20/2006 08:12:13  
Source: CORE  
Site ID: 62689575  
Leak Site: 1  
File Archive Box: 06  
File Archive Lot: 97/296  
Soil Digout Date: 06/08/1994  
Cubic Yards Excavated: 215  
Cond Closure Date: Not reported  
Complete Site Closure Date: 04/04/1995 00:00:00  
Contaminated Soils Remaining: N  
Enforcement Action Begin Date: 06/10/1994  
Last Trust Eligible: Y  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 06/08/1994  
Leak Reported Date: 06/09/1994  
Std Letter Response Date: Not reported  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:48  
TMSP Last Update: 05/24/2011 15:09:33  
Staff ID Last Update: GZARLIN  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

GW Info:

MN PCA ID: 220068  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: Not reported  
GW Cleanup Goal: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:32  
TMSP Last Update: 11/04/2003 12:57:07  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

Prodrel:

MN PCA ID: 220068  
Prod Released Sequence Id: 322181  
Leak Product: 7  
Tmsp Added: 12/04/1999 14:04:33  
Tmsp Last\_updt: 05/04/2002 09:25:17  
Staff Id Last Updt: TANKS

Name: BUREAU OF PRISONS/DEPT OF JUSTICE  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811  
Item ID: 139885-AREA0000000004  
MNPCA ID: 221548  
AI ID: 139885  
AI Name: Federal Prison Camp  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83536993  
Longitude: -92.19323163  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/139885>  
Leak Discovered: 11/09/1995  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: Federal Bureau Of Prisons  
Site Closed: 12/16/1996  
Owner Address: PO Box 1400  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55814  
SI Type: Underground Storage Tank System  
Leak Reported: 12/01/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

0816:  
Program IN: 221548  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 8998  
Township Name: Not reported  
Addr ID: 69152438  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 07/13/1998 00:00:00  
Interest End Date: 11/29/2006 07:02:45  
Source: CORE  
Site ID: 62689575  
Leak Site: 1  
File Archive Box: 54  
File Archive Lot: 98/223  
Soil Digout Date: Not reported  
Cubic Yards Excavated: 0  
Cond Closure Date: Not reported  
Complete Site Closure Date: 12/16/1996 00:00:00  
Contaminated Soils Remaining: U  
Enforcement Action Begin Date: 12/07/1995  
Last Trust Eligible: N  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 11/09/1995  
Leak Reported Date: 12/01/1995  
Std Letter Response Date: 12/12/1995  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:50  
TMSP Last Update: 09/15/2014 14:54:58  
Staff ID Last Update: DBOETTC  
Release From LAST: N  
Release From LUST: Y  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

GW Info:  
MN PCA ID: 221548  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Free Product Thickness: Not reported  
Ground Water Contam: Not reported  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:33  
TMSP Last Update: 11/04/2003 12:57:08  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 221548  
Prod Released Sequence Id: 35781  
Leak Product: 15  
Tmsp Added: 03/31/2003 15:28:19  
Tmsp Last\_updt: 03/31/2003 15:28:19  
Staff Id Last Updt: AMUSCH

**LAST:**

Name: BUREAU OF PRISONS/DEPT OF JUSTICE  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811  
Item ID: 139885-AREA0000000004  
AI ID: 139885  
MN PCA ID: Not reported  
AI Name: Federal Prison Camp  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83536993  
Longitude: -92.19323163  
Corrd Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/139885>  
Leak Discovered: 11/09/1995  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 12/16/1996  
Owner: Federal Bureau Of Prisons  
Owner Address: PO Box 1400

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55814  
SI Type: Aboveground Storage Tank  
Leak Reported: 12/01/1995

Name: FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811  
Item ID: 139885-AREA0000000003  
AI ID: 139885  
MN PCA ID: Not reported  
AI Name: Federal Prison Camp  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: James Joslyn (no longer at MPCA)  
Latitude: 46.83537602  
Longitude: -92.1932285  
Corrd Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/139885>  
Leak Discovered: 06/08/1994  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 04/04/1995  
Owner: Federal Bureau Of Prisons  
Owner Address: PO Box 1400  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55814  
SI Type: Aboveground Storage Tank  
Leak Reported: 06/09/1994

**SRS:**

Name: BUREAU OF PRISONS/DEPT OF JUSTICE  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0008998  
Item ID: 139885-AREA0000000004  
AI ID: 139885  
AI Name: Federal Prison Camp  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83536993000  
Longitude: -92.19323163000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/139885>  
Leak Discovered: 11/09/1995  
Leak Reported: 12/01/1995  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	12/16/1996
Owner:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
Acreage:	0.00000000
BPET:	Not reported
BVIC:	Not reported
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW19950001
Act Desc:	Leak Site Investigation
Status:	Closed
Name:	FEDERAL PRISON CAMP
Address:	4464 RALSTON DR
City,State,Zip:	DULUTH, MN 55811
Facility ID:	LS0007453
Item ID:	139885-AREA0000000003
AI ID:	139885
AI Name:	Federal Prison Camp
Facility Type:	LEAK
Hydro:	Not reported
Project Manager:	James Joslyn (no longer at MPCA)
Latitude:	46.83537602000
Longitude:	-92.19322850000
Coord Collection Method:	Digitized - MPCA internal map
Migrated:	Not reported
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/139885">https://webapp.pca.state.mn.us/wimn/site/139885</a>
Leak Discovered:	06/08/1994
Leak Reported:	06/09/1994
Application / Notification Received:	Not reported
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	04/04/1995
Owner:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
Acreage:	0.00000000
BPET:	Not reported
BVIC:	Not reported
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW19940001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Act Desc: Leak Site Investigation  
Status: Closed

MN Financial Assurance 1:

PROGRAM ID: 194442  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 69152438  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 5045  
Interest Start Date: 07/23/1992  
Interest End Date: 08/08/2014  
Activity Flag: N  
TMSP Added: 07/02/2014  
TMSP Last Update: 04/16/2015 10:21:52  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 62689575  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 194442  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site  
ADDR ID: 64524884  
Interest Telephone: 2187228634  
Preferred ID: 5045  
Interest Start Date: 07/23/1992  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 07/23/1992  
TMSP Last Update: 07/02/2014 10:43:50  
Staff ID Last Update: BPALMQU  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 220068  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 69152438  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 7453  
Interest Start Date: 04/22/1997  
Interest End Date: 11/20/2006  
Activity Flag: N  
TMSP Added: 11/20/2006



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

TMSP Last Update: 04/16/2015 10:30:54  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 62689575  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 221548  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 69152438  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 8998  
Interest Start Date: 07/13/1998  
Interest End Date: 11/29/2006  
Activity Flag: N  
TMSP Added: 11/29/2006  
TMSP Last Update: 04/16/2015 10:32:46  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 62689575  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 220068  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 7.264196  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 36.160372  
Collection Date: 11/03/2005 00:00:00  
Lat/Long Description: Site Center  
TMSP Added: 11/14/2005 09:17:58  
TMSP Last Update: 04/05/2011 08:11:02  
Staff ID Last Update: GZARLIN  
Coord Source Type: 2  
Org Name Source: Rebecca Gorney  
Coord Coll Meth: I2  
Map Scale Code: B  
Source: TALES  
Site ID: 62689575  
Spatial ID: 51817920

Program Id: 220068  
Lat/Long ID: 198616  
Latitude Degrees: 46  
Latitude Minutes: 50

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Latitude Seconds: 7.33  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 35.63  
Collection Date: 04/16/2015 10:29:55  
Lat/Long Description: Not reported  
TMSP Added: 05/23/2012 17:57:38  
TMSP Last Update: 04/16/2015 10:29:55  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 62689575  
Spatial ID: 51817920

Staff Name:

Program Id: 220068  
Staff Sequence ID: 4155  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:01  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 2250

Program Id: 220068  
Staff Sequence ID: 19354  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:16  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3296

Latitude Longitude:

Program Id: 221548  
Lat/Long ID: 7535  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 8.98  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 45.3328  
Collection Date: Not reported  
Lat/Long Description: Site Center

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

TMSP Added: 08/03/2004 12:34:11  
TMSP Last Update: 03/09/2011 13:18:06  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 62689575  
Spatial ID: 51829127

Program Id: 221548  
Lat/Long ID: 198616  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 7.33  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 35.63  
Collection Date: 04/16/2015 10:29:55  
Lat/Long Description: Not reported  
TMSP Added: 05/23/2012 17:57:38  
TMSP Last Update: 04/16/2015 10:29:55  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 62689575  
Spatial ID: 51829127

Staff Name:  
Program Id: 221548  
Staff Sequence ID: 20759  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:17  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

Program Id: 221548  
Staff Sequence ID: 5508  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:02  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Staff ID Number: 3176

Latitude Longitude:  
Program Id: 194442  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 08/08/2014 11:50:32  
TMSP Last Update: 08/08/2014 11:50:32  
Staff ID Last Update: SFRYE  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 62689575  
Spatial ID: 69151498

Program Id: 194442  
Lat/Long ID: 198616  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 7.33  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 35.63  
Collection Date: 04/16/2015 10:29:55  
Lat/Long Description: Not reported  
TMSP Added: 05/23/2012 17:57:38  
TMSP Last Update: 04/16/2015 10:29:55  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 62689575  
Spatial ID: 69151498

Tab Site:  
Program Id: 194442  
Facility Code: 14  
Above or Under Code: 3  
Indian Reservation: N  
Ust Registration Date: 04/23/1986 00:00:00  
Ast Registration Date: 03/07/2006 00:00:00  
TMSP Added: 07/23/1992 19:11:05  
TMSP Last Update: 04/28/2006 13:49:22  
Staff ID Last Update: JHENRY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

**MANIFEST:**

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 637379  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: ILD984908202  
Transporter 1 AI ID: 37702  
Transporter 1 AI Name: Safety Kleen Corp  
Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: SCD987574647  
Transporter 2 AI ID: 32928  
Transporter 2 AI Name: Laidlaw Environmental Services Tg Inc  
Transporter 2 Address: 350 Railroad St  
Transporter 2 City: Roebuck  
Transporter 2 State: SC  
Transporter 2 ZIP: 29376-3122  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: 10/18/1999 0:00:00  
Fac Copy Recd Date: 1999-10-25 00:00:00  
Gen Ship Date: 1999-10-12 00:00:00  
Trans 1 Recd Date: 1999-10-12 00:00:00  
Trans 2 Recd Date: 10/14/1999 0:00:00  
Tsd Recd Date: 1999-10-15 00:00:00  
Comments: Not reported

**Contact:**

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

**NAIC:**

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 637379  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 17  
Waste Units Code: AD  
Waste Code List: D001,D008,D039,D040

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 684944  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: SCR000075150  
Transporter 1 AI ID: 60980  
Transporter 1 AI Name: Safety Kleen - Columbia SC  
Transporter 1 Address: 1301 Gervais St Ste 1900  
Transporter 1 City: Columbia  
Transporter 1 State: SC  
Transporter 1 ZIP: 29201-3335  
Transporter 2 ID: SCR000074591  
Transporter 2 AI ID: 59299  
Transporter 2 AI Name: Safety Kleen TG Inc  
Transporter 2 Address: 1301 Gervais St Ste 300  
Transporter 2 City: Columbia  
Transporter 2 State: SC  
Transporter 2 ZIP: 29201-3344  
TSD ID: ILD980613913  
TSD AI ID: 37858  
TSD AI Name: Safety Kleen EnviroSystems Inc  
TSD Address: 633 E 138th St  
TSD City: Dolton  
TSD State: IL  
TSD Zip: 60419-1058  
Gen Copy Recd Date: 9/28/2000 0:00:00  
Fac Copy Recd Date: 2000-10-23 00:00:00  
Gen Ship Date: 2000-09-25 00:00:00  
Trans 1 Recd Date: 2000-09-25 00:00:00  
Trans 2 Recd Date: 9/28/2000 0:00:00  
Tsd Recd Date: 2000-10-08 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 684944  
Manifest Row: 1  
Haz Material Name: RQ WASTE PAINT RELATED MATERIAL  
Haz Class Number: 3  
UN NA Number: UN1263  
Packing Group Number: II  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 110  
Waste Units Code: AD  
Waste Code List: D001,F003,F005

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 686735  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: SCR000075150  
Transporter 1 AI ID: 60980  
Transporter 1 AI Name: Safety Kleen - Columbia SC  
Transporter 1 Address: 1301 Gervais St Ste 1900  
Transporter 1 City: Columbia  
Transporter 1 State: SC  
Transporter 1 ZIP: 29201-3335  
Transporter 2 ID: SCR000074591  
Transporter 2 AI ID: 59299  
Transporter 2 AI Name: Safety Kleen TG Inc  
Transporter 2 Address: 1301 Gervais St Ste 300  
Transporter 2 City: Columbia  
Transporter 2 State: SC  
Transporter 2 ZIP: 29201-3344  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Fac Copy Recd Date: 2000-09-11 00:00:00  
Gen Ship Date: 2000-08-25 00:00:00  
Trans 1 Recd Date: 2000-08-25 00:00:00  
Trans 2 Recd Date: 8/29/2000 0:00:00  
Tsd Recd Date: 2000-08-29 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 686735  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 17  
Waste Units Code: AD  
Waste Code List: D001,D008,D018,D039,D040

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 764616  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 12/22/2003 0:00:00  
Fac Copy Recd Date: 2003-12-22 00:00:00  
Gen Ship Date: 2002-04-23 00:00:00  
Trans 1 Recd Date: 2002-04-23 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2002-04-26 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 764616  
Manifest Row: 1  
Haz Material Name: PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 500  
Waste Units Code: IB  
Waste Code List: F003

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 765252  
Generator ID: MN3151990022  
Generator AI ID: 23086

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 11/21/2002 0:00:00  
Fac Copy Recd Date: 2002-03-07 00:00:00  
Gen Ship Date: 2002-03-04 00:00:00  
Trans 1 Recd Date: 2002-03-04 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2002-03-04 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 765252  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Waste Qty: 8  
Waste Units Code: AD  
Waste Code List: D001,D008,D018,D039

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 765269  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 11/21/2002 0:00:00  
Fac Copy Recd Date: 2002-08-21 00:00:00  
Gen Ship Date: 2002-08-19 00:00:00  
Trans 1 Recd Date: 2002-08-19 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2002-08-19 00:00:00  
Comments: Not reported

**Contact:**

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

**NAIC:**

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 765269  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 8  
Waste Units Code: AD  
Waste Code List: D001,D008,D018,D039

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 765270  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2002-08-21 00:00:00  
Gen Ship Date: 2002-08-19 00:00:00  
Trans 1 Recd Date: 2002-08-19 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2002-08-19 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 765270  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 16  
Waste Units Code: AD  
Waste Code List: D001,D008,D018,D039

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 765271  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 11/21/2002 0:00:00  
Fac Copy Recd Date: 2002-05-31 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Gen Ship Date: 2002-05-28 00:00:00  
Trans 1 Recd Date: 2002-05-28 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2002-05-28 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 765271  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 8  
Waste Units Code: AD  
Waste Code List: D001,D008,D018,D039

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 722125  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: SCR000075150  
Transporter 1 AI ID: 60980  
Transporter 1 AI Name: Safety Kleen - Columbia SC  
Transporter 1 Address: 1301 Gervais St Ste 1900  
Transporter 1 City: Columbia  
Transporter 1 State: SC  
Transporter 1 ZIP: 29201-3335  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: 10/17/2001 0:00:00  
Fac Copy Recd Date: 2001-10-17 00:00:00  
Gen Ship Date: 2001-10-12 00:00:00  
Trans 1 Recd Date: 2001-10-12 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2001-10-16 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 722125  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 2  
Container Code: DMML  
Waste Qty: 31  
Waste Units Code: AD  
Waste Code List: D001,D018,D039,D040

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 20589  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: ILD984908202

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Transporter 1 AI ID: 37702  
Transporter 1 AI Name: Safety Kleen Corp  
Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: ARD981908551  
Transporter 2 AI ID: 36374  
Transporter 2 AI Name: Jb Hunt Special Commodities  
Transporter 2 Address: 615 Jb Hunt Corporate Dr  
Transporter 2 City: Lowell  
Transporter 2 State: AR  
Transporter 2 ZIP: 72745  
TSD ID: KYD053348108  
TSD AI ID: 37859  
TSD AI Name: Safety Kleen Envirosystems Inc  
TSD Address: State Highway 146  
TSD City: New Castle  
TSD State: KY  
TSD Zip: 40050  
Gen Copy Recd Date: 11/27/1995 0:00:00  
Fac Copy Recd Date: 1995-12-04 00:00:00  
Gen Ship Date: 1995-11-15 00:00:00  
Trans 1 Recd Date: 1995-11-15 00:00:00  
Trans 2 Recd Date: 11/21/1995 0:00:00  
Tsd Recd Date: 1995-11-26 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Detail:

Manifest ID: 20589  
Manifest Row: 1  
Haz Material Name: FLAMMABLE SOLIDS ORGANIC NOS  
Haz Class Number: Not reported  
UN NA Number: UN1325  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 5



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Waste Units Code: AD  
Waste Code List: D001

Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
City,State,Zip: DULUTH, MN 55811-1519  
Manifest ID: 20590  
Generator ID: MN3151990022  
Generator AI ID: 23086  
Transporter 1 ID: ILD984908202  
Transporter 1 AI ID: 37702  
Transporter 1 AI Name: Safety Kleen Corp  
Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: SCD987574647  
Transporter 2 AI ID: 32928  
Transporter 2 AI Name: Laidlaw Environmental Services Tg Inc  
Transporter 2 Address: 350 Railroad St  
Transporter 2 City: Roebuck  
Transporter 2 State: SC  
Transporter 2 ZIP: 29376-3122  
TSD ID: MND981953045  
TSD AI ID: 37851  
TSD AI Name: Safety-Kleen Systems Inc - Blaine  
TSD Address: 9261 Isanti St NE  
TSD City: Blaine  
TSD State: MN  
TSD Zip: 55449  
Gen Copy Recd Date: 4/7/1999 0:00:00  
Fac Copy Recd Date: 1999-04-08 00:00:00  
Gen Ship Date: 1999-03-31 00:00:00  
Trans 1 Recd Date: 1999-03-31 00:00:00  
Trans 2 Recd Date: 4/1/1999 0:00:00  
Tsd Recd Date: 1999-04-05 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
Generator Contact: Lisa Henrickson  
Contact Address: PO Box 1400  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55814  
Contact Email: lhenrickson@bop.gov  
Contact Phone: 218-249-7402

NAIC:

Generator AI ID: 23086  
Generator ID: MN3151990022  
Generator AI Name: Duluth Federal Prison Camp  
NAIC Code: 922140  
NAIC Desc: 922140 - Correctional Institutions

Map ID  
Direction  
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Detail:

Manifest ID: 20590  
Manifest Row: 1  
Haz Material Name: WASTE COMBUSTIBLE LIQUID  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 27  
Waste Units Code: AD  
Waste Code List: D039

[Click this hyperlink](#) while viewing on your computer to access 65 additional MN MANIFEST: record(s) in the EDR Site Report.

TIER 2:

Name: FEDERAL PRISON CAMP DULUTH  
Address: 4464 RALSTON DRIVE  
City,State,Zip: DULUTH, MN  
Year: 2016  
Facility Status: ACTIVE  
Facility Phone: Not reported  
Facility Email: Not reported  
Facility Web: Not reported  
Facility MNCP: Not reported  
SIC: Not reported  
NAICS: 922140  
Dunn Brad Num: Not reported  
Contact Type: Not reported  
Time Created: Not reported  
Signed By: Not reported  
Title: Not reported  
Signed Date: Not reported  
Attach Site Plan: Not reported  
Attach Coord Abbr: Not reported  
Attach Safeguard Info: Not reported  
Attach ERP: Not reported  
Hardcopy Attachments: Not reported  
Extension Site Plan: Not reported  
Extension Coord Abbr: Not reported  
Extension Safeguard Info: Not reported  
Extension ERP: Not reported  
Last Updated ERP: Not reported  
Last Tested ERP: Not reported  
Last Reviewed ERP: Not reported  
VZone Primary: Not reported  
VZone Secondary: Not reported  
Modified Date: Not reported  
FIPS County: Not reported  
Latitude/Longitude: 46.8367/-92.1878  
User Name: Not reported  
TRIFID: Not reported  
CMFCL Record ID: Not reported  
SEPC Approved Date ERP: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Client System ID:	691250004
Own Country:	Not reported
Site Plan:	Not reported
Confidential Location:	Not reported
Status 302:	Not reported
Status 312:	Not reported
Emergency Contact Name1:	Daniel Riggs
Emergency Contact Name2:	Not reported
Emergency Contact Name3:	Not reported
Emergency Contact Name4:	Not reported
Emergency Contact 24hr Phone1:	2187228634
Emergency Contact 24hr Phone2:	Not reported
Emergency Contact 24hr Phone3:	Not reported
Emergency Contact 24hr Phone4:	Not reported
Name:	FEDERAL PRISON CAMP DULUTH
Address:	4464 RALSTON DRIVE
City,State,Zip:	DULUTH, MN
Name:	FEDERAL PRISON CAMP DULUTH
Address:	4464 RALSTON DRIVE
City,State,Zip:	DULUTH, MN
Name:	FEDERAL PRISON CAMP DULUTH
Address:	4464 RALSTON DRIVE
City,State,Zip:	DULUTH, MN
Name:	FEDERAL PRISON CAMP DULUTH
Address:	4464 RALSTON DRIVE
City,State,Zip:	DULUTH, MN
Name:	FEDERAL PRISON CAMP DULUTH
Address:	4464 RALSTON DRIVE
City,State,Zip:	DULUTH, MN
Name:	FEDERAL PRISON CAMP DULUTH
Address:	4464 RALSTON DRIVE
City,State,Zip:	DULUTH, MN
Name:	FEDERAL PRISON CAMP DULUTH
Address:	4464 RALSTON DRIVE
City,State,Zip:	DULUTH, MN
Facility Id:	10511
CAS Number:	7664939
Chemical Id:	Not reported
Chemical Name:	SULFURIC ACID
EHS Name:	SULFURIC ACID
Is EHS:	Yes
Is EHS More than TPQ:	Yes
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	4
Avg Daily Amt Code:	4
Storage Container Type:	Other
Storage Pressure Class:	Ambient pressure
Storage Temperature Class:	Ambient temperature
Storage Location:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10511  
CAS Number: N/A  
Chemical Id: Not reported  
Chemical Name: DIESEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 5  
Avg Daily Amt Code: 4  
Storage Container Type: Above ground tank  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids) Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10511  
CAS Number: N/A  
Chemical Id: Not reported  
Chemical Name: DIESEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 5  
Avg Daily Amt Code: 4  
Storage Container Type: Above ground tank  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids) Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported
Facility Id:	10511
CAS Number:	7664939
Chemical Id:	Not reported
Chemical Name:	SULFURIC ACID
EHS Name:	SULFURIC ACID
Is EHS:	Yes
Is EHS More than TPQ:	Yes
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	4
Avg Daily Amt Code:	4
Storage Container Type:	Other
Storage Pressure Class:	Ambient pressure
Storage Temperature Class:	Ambient temperature
Storage Location:	Not reported
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10511  
CAS Number: 7664939  
Chemical Id: Not reported  
Chemical Name: SULFURIC ACID  
EHS Name: SULFURIC ACID  
Is EHS: Yes  
Is EHS More than TPQ: Yes  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: Other  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10511  
CAS Number: 7664939  
Chemical Id: Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Chemical Name: SULFURIC ACID  
EHS Name: SULFURIC ACID  
Is EHS: Yes  
Is EHS More than TPQ: Yes  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: Other  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10511  
CAS Number: N/A  
Chemical Id: Not reported  
Chemical Name: GASOLINE, UNLEADED  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 5  
Storage Container Type: Above ground tank



Map ID  
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MAP FINDINGS

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EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10511  
CAS Number: N/A  
Chemical Id: Not reported  
Chemical Name: DIESEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 5  
Avg Daily Amt Code: 4  
Storage Container Type: Above ground tank  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids) Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10511  
CAS Number: 7664939  
Chemical Id: Not reported  
Chemical Name: SULFURIC ACID  
EHS Name: SULFURIC ACID  
Is EHS: Yes  
Is EHS More than TPQ: Yes  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: Other  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids) Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 10511  
CAS Number: 7664939  
Chemical Id: Not reported  
Chemical Name: SULFURIC ACID  
EHS Name: SULFURIC ACID  
Is EHS: Yes  
Is EHS More than TPQ: Yes  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: Other  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Contact:

Contact ID: 21022  
Contact Type: T2EC  
Contact Name: REGINALD J  
Contact Title: SAFETY MAN  
Sort Order: 1

Contact:

Contact ID: 21023  
Contact Type: T2EC  
Contact Name: JEFF LUNDH  
Contact Title: HWSC  
Sort Order: 2

[Click this hyperlink](#) while viewing on your computer to access  
98 additional MN\_TIER2: record(s) in the EDR Site Report.

WIMN:

Name: FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
Address Description: 4464 Ralston Dr  
City,State,Zip: DULUTH, MN 55811  
Status: N  
Latitude: 46.835369900000003  
Longitude: -92.193231600000004  
Item ID: 139885-AISI0000139885  
AI ID: 139885  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 139885  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Multiple Programs  
Program List: HW; SR; TL  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DM  
Method Description: Digitized - MPCA internal map  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 09/27/2015  
Timestamp of Creation: 11/20/2006  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 04/26/2016  
User Name of Last Update: spatial\_  
Status Date: 09/30/2014  
The Delta Spatial ID: 62689576  
Activity: Multiple Activities  
Activity List: Aboveground Tanks; Hazardous Waste; Petroleum Remediation, Leak Site; Underground Tanks  
  
MPCA ID: Multiple IDs  
MPCA List: LS0007453; LS0008998; MNS000179291; TS0005045  
Program List: Hazardous Waste; Investigation and Cleanup; Tanks  
Classification: Correctional Institutions  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/139885>  
  
WIMN Detail as of Aug 2016:  
Legislative District: 6B  
Latitude: 46.83536988  
Longitude: -92.19322348  
Activity: Hazardous Waste, Small to Minimal QG  
MPCA ID: MN3151990022  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Active  
  
Legislative District: 6B  
Latitude: 46.83536992  
Longitude: -92.19323163  
Activity: Multiple Activities  
MPCA ID: Multiple Activities  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Inactive  
  
Name: DULUTH FEDERAL PRISON CAMP  
Address: 4464 RALSTON DR  
Address Description: 4464 Ralston Dr  
City,State,Zip: DULUTH, MN 55811-1519  
Status: Y  
Latitude: 46.835369800000002  
Longitude: -92.193223399999994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Item ID: 23086-AISI0000023086  
AI ID: 23086  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 23086  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Hazardous Waste  
Program List: HW  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DM  
Method Description: Digitized - MPCA internal map  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: Not reported  
Timestamp of Creation: 07/26/1999  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 12/21/2016  
User Name of Last Update: kkircho  
Status Date: Not reported  
The Delta Spatial ID: 19933  
Activity: Hazardous Waste, Minimal quantity generator  
Activity List: Hazardous Waste, Minimal quantity generator  
MPCA ID: MN3151990022  
MPCA List: MN3151990022  
Program List: Hazardous Waste  
Classification: Correctional Institutions  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/23086>  
  
WIMN Detail as of Aug 2016:  
Legislative District: 6B  
Latitude: 46.83536988  
Longitude: -92.19322348  
Activity: Hazardous Waste, Small to Minimal QG  
MPCA ID: MN3151990022  
Major Watershed: St. Louis River

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BUREAU OF PRISONS/DEPT OF JUSTICE (Continued)**

**S111873402**

Coordinate Collection Method:	Digitized - Map Tool
Status:	Active
Legislative District:	6B
Latitude:	46.83536992
Longitude:	-92.19323163
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive

**D27**  
**West**  
 < 1/8  
 0.065 mi.  
 341 ft.

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5**  
**AIRPORT ROAD**  
**DULUTH, MN 55811**

**MN BROWNFIELDS**  
**MN SRS**

**S122371031**  
**N/A**

**Site 1 of 3 in cluster D**

**Relative:**  
**Lower**  
**Actual:**  
**1421 ft.**

<b>BROWNFIELDS:</b>	
Name:	DULUTH INTERNATIONAL AIRPORT - BLOCK 5
Address:	AIRPORT ROAD
City,State,Zip:	DULUTH, MN 55811
Site ID:	VP15150
Leak Num:	Not reported
Owner Name:	Unknown
Leak Source:	Not reported
Response Action Date:	Not reported
Site Acreage:	Not reported
Item Id:	189213-AREA0000000001
AI ID:	189213
AI Name:	Duluth International Airport - Block 5
Site type:	BROWNFIELD
Hydro:	Mike Bares (former)
Project Manager:	Jane Mosel (no longer at MPCA)
Coord Collection Method:	Not reported
Migrated:	Y
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/189213">https://webapp.pca.state.mn.us/wimn/site/189213</a>
Leak Discovered:	Not reported
Leak Reported:	Not reported
Application / Notification Received:	Not reported
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	07/20/2002
Owner Address:	520 Lafayette Rd N
Owner City:	Saint Paul
Owner State:	MN
Owner ZIP:	55155
Latitude:	46.83643407000
Longitude:	-92.19803102000

<b>SRS:</b>	
Name:	DULUTH INTERNATIONAL AIRPORT - BLOCK 5
Address:	AIRPORT ROAD
City,State,Zip:	DULUTH, MN 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371031**

Facility ID: VP15150  
Item ID: 189213-AREA0000000001  
AI ID: 189213  
AI Name: Duluth International Airport - Block 5  
Facility Type: BROW  
Hydro: Mike Bares (former)  
Project Manager: Jane Mosel (no longer at MPCA)  
Latitude: 46.83643407000  
Longitude: -92.19803102000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/189213>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: 11/09/2001  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 07/20/2002  
Owner: Unknown  
Owner Address: 520 Lafayette Rd N  
Owner City: Saint Paul  
Owner State: MN  
Owner ZIP: 55155  
Acreage: 3.80000000  
BPET: Not reported  
BVIC: Y  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20010001  
Act Desc: Brownfield Site  
Status: Closed

Prior Aug 2016:

Facility ID: VP15150  
Facility Adress 2: Not reported  
Core Program Interest ID: 336990  
Link ID: 5585  
Site Type: Other  
Active?: False  
Pay Complete: False  
MPCA Region: Duluth  
Site Size: 3.8  
Score: Not reported  
Enforcement Lead Agency: MPCA  
Federal Deferral Pilot?: False  
Site Classification A Emergency: False  
Site Classification B O and m: False  
Site Classification C Rd/ra: False  
Site Classification D Ri/fs: False  
Fund Financed: False  
NPL: False  
PLP: False  
District: North



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371031**

Program Site Was Referred From:	Not reported
Program Interest:	VIC
Physical Location:	Block 5 and part of Lot 17, Block 4
Natural Resource Damage:	False
Cleanup Cost:	Not reported
Notes:	Not reported
Indian Reservation Land?:	False
Reservation Name:	Not reported
MPCA-owned Wells At Site?:	False
Created By:	Pjensen
Created Date:	11/09/2001
Last Update Date:	03/14/2011
Federal Facility?:	False
Primary Funding Source:	Not reported
EPA ID:	Not reported
MPCA ID:	Not reported
Alpha Sort:	Not reported
Legal District:	06B
Congressional District:	8
Public Land Survey Method:	M
Map Scale For PLS Locational Data:	A
Township:	50
Range:	15
PLS Township Suffix:	w
Section:	1
PLS Qtr Section (160 Acres):	Not reported
PLS Qtr-Qtr Section (40 Acres):	Not reported
Pls Qtr-Qtr-Qtr Section (10 Acres):	Not reported
Pls Qtr-Qtr-Qtr Section (10 Acres):	Not reported
Quad:	Not reported
NAD Number:	83
Desc Of UTM Coord Pt:	Not reported
Desc Of UTM Coord Pt:	Not reported
Desc Of UTM Coord Pt:	Not reported
mpcapgmac:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported
Utm Source:	U
Utm Method:	M1
Utm Scale:	A
Utm Accuracy:	U
Utm East:	561144.18999999994
Utm North:	5187296.5
Utm Zone:	15
Basin Code:	1
Major Watershed:	Not reported
Minor Watershed:	Not reported
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371031**

PLS Qtr-Qtr Section (40 Acres) 2: Not reported  
PLS Qtr-Qtr Section (10 Acres) 2: Not reported  
PLS Qtr-Qtr Section (2.5 Acres) 2: Not reported  
Quad 2: Not reported  
File Location: Archival Storage  
VIC Application GIS: False  
Petroleum Brownfields Prog?: False

Impact and Response Actions:

Facid: VP15150  
GW Receipts Prot by Rem Actn: Not reported  
Ecological receptors present: 1  
Type of ecological receptors: Not reported  
Acres of contaminated soil: Not reported  
Volume of contaminated soil: Not reported  
Acres of surface water impacted: Not reported  
Acres of wetland impacted: Not reported  
Acres of sediment impacted: Not reported  
GW Plume Area Acres: Not reported  
Cleanup Conducted: 1  
Acres of Contam Soil remediate: Not reported  
Volume of Soil Cleaned: Not reported  
# Municipal wells contamd: Not reported  
# Dom wells contam: Not reported  
# People Impct SW intake contam: Not reported  
# Drums Revolved from site: Not reported  
Yr Soil Remediated: Not reported  
Acres of Soil w/ Restrict Access: Not reported  
Yr IC remedy complete: Not reported  
Yr GW remedy completed: Not reported  
Year GWIC completed: Not reported  
Acres of wetland of sediment remediated: Not reported  
Public financing: 1  
Assurance help: 1  
Land use Classfn At Site: Not reported  
Land use Vicinity Of Site: Not reported  
Deed notif Present On Site: 1  
Restrictive Covenant Present: 1  
Restrictions: Not reported  
GW Pump and Treat Used at site: 1  
Quaternary Perched: 1  
Quaternary Water Table: 1  
Quaternary Confined: 1  
Cretaceous: 1  
Plattville: 1  
St. peter: 1  
Prairie Duchien: 1  
Jordan: 1  
Ironton/Galesville: 1  
Mt Simon Hinckley: 1  
Precambrian Undifferentiated: 1  
Other/Unknown Aquifer: 1  
Date Info Last Updated: 2015-08-18 12:45:00  
Inst Control Info Updated: Not reported  
Inst Control Filed Location: Not reported  
SW Classification (Primary): Not reported  
SW Classification (Secondary): Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371031**

Miscellaneous: Not reported  
SW Comments: Not reported

Site Event Log:

Date Started: 2001-11-09 00:00:00  
Date End: 2002-07-20 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2001-11-16 00:00:00  
Facid: VP15150  
Event: 1  
Additional Information: None Entered  
Record Number: 12593

Contacts:

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-11-16 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3351

Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 411 West First Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187233556  
Contact Phone Ext: Not reported  
Contact Fax: 2187233540  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-11-16 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: T  
Staff Id Num: 0

Contact Type: 1  
Company Name: RLK Kuusisto Ltd.  
Contact Address: 101 West Second Street, #205  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371031**

Contact Phone: 2187206219  
 Contact Phone Ext: Not reported  
 Contact Fax: 2187206267  
 Contact E-mail: Not reported  
 Contact Cell Phone: Not reported  
 Contact Information Last Updated: 2001-11-16 00:00:00  
 Misc Contact Info: Not reported  
 Receive Invoice: F  
 Staff Id Num: 0

Contact Type: 1  
 Company Name: City of Duluth  
 Contact Address: 411 East First Street  
 Contact Address 2: Not reported  
 Contact Province: Not reported  
 Contact Country: Not reported  
 Contact Postal code: Not reported  
 Contact Phone: 2187233368  
 Contact Phone Ext: Not reported  
 Contact Fax: 2185298291  
 Contact E-mail: Not reported  
 Contact Cell Phone: Not reported  
 Contact Information Last Updated: 2001-11-16 00:00:00  
 Misc Contact Info: Not reported  
 Receive Invoice: F  
 Staff Id Num: 0

Contact Type: 1  
 Company Name: MPCA  
 Contact Address: 520 Lafayette Rd N  
 Contact Address 2: Not reported  
 Contact Province: Not reported  
 Contact Country: Not reported  
 Contact Postal code: Not reported  
 Contact Phone: (651) 757-8599  
 Contact Phone Ext: Not reported  
 Contact Fax: 651-297-3243  
 Contact E-mail: mike.bares@state.mn.us  
 Contact Cell Phone: Not reported  
 Contact Information Last Updated: 2002-01-04 00:00:00  
 Misc Contact Info: Not reported  
 Receive Invoice: F  
 Staff Id Num: 3188

**D28**  
**West**  
**< 1/8**  
**0.065 mi.**  
**341 ft.**

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5**  
**AIRPORT ROAD**  
**DULUTH, MN 55811**  
**Site 2 of 3 in cluster D**

**MN VIC S122371201**  
**N/A**

**Relative:**  
**Lower**

VIC:  
 Name: DULUTH INTERNATIONAL AIRPORT - BLOCK 5  
 Address: AIRPORT ROAD  
 City,State,Zip: DULUTH, MN 55811  
 Facility ID: VP15150  
 Facility Type: CON  
 Item ID: 189213-AREA0000000001

**Actual:**  
**1421 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371201**

AI ID: 189213  
AI Name: Duluth International Airport - Block 5  
Hydro: Mike Bares (former)  
Project Manager: Jane Mosel (no longer at MPCA)  
Latitude: 46.83643407000  
Longitude: -92.19803102000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/189213>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: 11/09/2001  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 07/20/2002  
Owner: Unknown  
Owner Address: 520 Lafayette Rd N  
Owner City: Saint Paul  
Owner State: MN  
Owner ZIP: 55155

Prior Aug 2016:  
Facility ID: VP15150  
Facility Address 2: Not reported  
Core Program Interest ID: 336990  
Link ID: 5585  
Site Type: Other  
Active?: False  
Pay Complete: False  
MPCA Region: Duluth  
Site Size: 3.8  
Score: Not reported  
Enforcement Lead Agency: MPCA  
Federal Deferral Pilot?: False  
Site Classification A Emergency: False  
Site Classification B O and m: False  
Site Classification C Rd/ra: False  
Site Classification D Ri/fs: False  
Fund Financed: False  
NPL: False  
PLP: False  
District: North  
Program Site Was Referred From: Not reported  
Program Interest: VIC  
Physical Location: Block 5 and part of Lot 17, Block 4  
Natural Resource Damage: False  
Cleanup Cost: Not reported  
Notes: Not reported  
Indian Reservation Land?: False  
Reservation Name: Not reported  
MPCA-owned Wells At Site?: False  
Created By: Pjensen  
Created Date: 11/09/2001  
Last Update Date: 03/14/2011  
Federal Facility?: False  
Primary Funding Source: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371201**

EPA ID:	Not reported
MPCA ID:	Not reported
Alpha Sort:	Not reported
Legal District:	06B
Congressional District:	8
Public Land Survey Method:	M
Map Scale For PLS Locational Data:	A
Township 2:	50
Range:	15
PLS Township Suffix:	w
Section:	1
PLS Qtr Section (160 Acres):	Not reported
PLS Qtr-Qtr Section (40 Acres):	Not reported
Pls Qtr-Qtr-Qtr Section (10 Acres):	Not reported
Pls Qtr-Qtr-Qtr-Qtr Secion (2.5 Acres):	Not reported
Quad:	Not reported
NAD Number:	83
Desc Of UTM Coord Pt:	Not reported
UTM Coord Pt Data Source:	Not reported
Org Providing UTM Coord Point Data:	Not reported
mpcapgmac:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Date Of Utm Coord Pt Data Collection:	Not reported
COL Date Qual:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported
Utm Source:	U
Utm Method:	M1
Utm Scale:	A
Utm Accuracy:	U
Utm East:	561144.18999999994
Utm North:	5187296.5
Utm Zone:	15
Basin Code:	1
Major Watershed:	Not reported
Minor Watershed:	Not reported
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported
PLS Qtr-Qtr Section (40 Acres) 2:	Not reported
PLS Qtr-Qtr Section (10 Acres) 2:	Not reported
PLS Qtr-Qtr Section (2.5 Acres) 2:	Not reported
Quad 2:	Not reported
File Location:	Archival Storage
VIC Application GIS:	False
Petroleum Brownfields Prog?:	False
Impact and Response Actions:	
Facid:	VP15150
GW Receipts Prot by Rem Actn:	Not reported
Ecological receptors present:	1
Type of ecological receptors:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371201**

Acres of contaminated soil:	Not reported
Volume of contaminated soil:	Not reported
Acres of surface water impacted:	Not reported
Acres of wetland impacted:	Not reported
Acres of sediment impacted:	Not reported
GW Plume Area Acres:	Not reported
Cleanup Conducted:	1
Acres of Contam Soil remediate:	Not reported
Volume of Soil Cleaned:	Not reported
# Municipal wells contamd:	Not reported
# Dom wells contam:	Not reported
# People Impct SW intake contam:	Not reported
# Drums Revolved from site:	Not reported
Yr Soil Remediated:	Not reported
Acres of Soil w/ Restrict Access:	Not reported
Yr IC remedy complete:	Not reported
Yr GW remedy completed:	Not reported
Year GWIC completed:	Not reported
Acres of wetland of sediment remediated:	Not reported
Public financing:	1
Assurance help:	1
Land use Classfn At Site:	Not reported
Land use Vicinity Of Site:	Not reported
Deed notif Present On Site:	1
Restrictive Covenant Present:	1
Restrictions:	Not reported
GW Pump and Treat Used at site:	1
Quaternary Perched:	1
Quaternary Water Table:	1
Quaternary Confined:	1
Cretaceous:	1
Plattville:	1
St. peter:	1
Prairie Duchien:	1
Jordan:	1
Ironton/Galesville:	1
Mt Simon Hinckley:	1
Precambrian Undifferentiated:	1
Other/Unknown Aquifer:	1
Date Info Last Updated:	2015-08-18 12:45:00
Inst Control Info Updated:	Not reported
Inst Control Filed Location:	Not reported
SW Classification (Primary):	Not reported
SW Classification (Secondary):	Not reported
Miscellaneous:	Not reported
SW Comments:	Not reported

**Site Event Log:**

Date Started:	2001-11-09 00:00:00
Date End:	2002-07-20 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2001-11-16 00:00:00
Facid:	VP15150
Event:	1
Additional Information:	None Entered
Record Number:	12593

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)

S122371201

Contacts:

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: Not reported  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-11-16 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3351

Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 411 West First Street  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187233556  
Contact Phone Ext: Not reported  
Contact Fax: 2187233540  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-11-16 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: T  
Staff Id Num: 0

Contact Type: 1  
Company Name: RLK Kuusisto Ltd.  
Contact Address: 101 West Second Street, #205  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 2187206219  
Contact Phone Ext: Not reported  
Contact Fax: 2187206267  
Contact E-mail: Not reported  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2001-11-16 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Contact Type: 1  
Company Name: City of Duluth  
Contact Address: 411 East First Street  
Contact Address 2: Not reported  
Contact Province: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S122371201**

Contact Country:	Not reported
Contact Postal code:	Not reported
Contact Phone:	2187233368
Contact Phone Ext:	Not reported
Contact Fax:	2185298291
Contact E-mail:	Not reported
Contact Cell Phone:	Not reported
Contact Information Last Updated:	2001-11-16 00:00:00
Misc Contact Info:	Not reported
Receive Invoice:	F
Staff Id Num:	0
Contact Type:	1
Company Name:	MPCA
Contact Address:	520 Lafayette Rd N
Contact Address 2:	Not reported
Contact Province:	Not reported
Contact Country:	Not reported
Contact Postal code:	Not reported
Contact Phone:	(651) 757-8599
Contact Phone Ext:	Not reported
Contact Fax:	651-297-3243
Contact E-mail:	mike.bares@state.mn.us
Contact Cell Phone:	Not reported
Contact Information Last Updated:	2002-01-04 00:00:00
Misc Contact Info:	Not reported
Receive Invoice:	F
Staff Id Num:	3188

**E29**  
**West**  
 < 1/8  
 0.066 mi.  
 349 ft.

**LAKE SUPERIOR COLLEGE CENTER FOR ADVANCED AVIATION**  
**4960 AIRPORT RD**  
**HERMANTOWN, MN 55811**

**RCRA-VSQG 1024888061**  
**MNS000320952**

**Site 1 of 2 in cluster E**

**Relative:**  
**Lower**  
**Actual:**  
**1419 ft.**

RCRA Listings:	
Date Form Received by Agency:	20180405
Handler Name:	LAKE SUPERIOR COLLEGE CENTER FOR ADVANCED AVIATION
Handler Address:	4960 AIRPORT RD
Handler City,State,Zip:	HERMANTOWN, MN 55811-1503
EPA ID:	MNS000320952
Contact Name:	MARISSA BERGER
Contact Address:	2101 TRINITY RD
Contact City,State,Zip:	DULUTH, MN 55811-3349
Contact Telephone:	218-733-1057
Contact Fax:	Not reported
Contact Email:	MARISSA.BERGER@LSC.EDU
Contact Title:	SAFETY ADMINISTRATOR
EPA Region:	05
Land Type:	Not reported
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LAKE SUPERIOR COLLEGE CENTER FOR ADVANCED AVIATION (Continued)**

**1024888061**

Mailing Address:		4960 AIRPORT RD
Mailing City,State,Zip:		HERMANTOWN, MN 55811-1503
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:	Not reported	
Handler Date of Last Change:		20200428
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LAKE SUPERIOR COLLEGE CENTER FOR ADVANCED AVIATION (Continued)**

**1024888061**

Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Historic Generators:

Receive Date:	20180405
Handler Name:	LAKE SUPERIOR COLLEGE CENTER FOR ADVANCED AVIATION
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found
--------------	----------------------

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

**E30**  
**West**  
**< 1/8**  
**0.066 mi.**  
**349 ft.**

**LAKE SUPERIOR COLLEGE CENTER FOR ADVANCED AVIATION**  
**4960 AIRPORT RD**  
**HERMANTOWN, MN 55811**

**MN WIMN S122448464**  
**N/A**

**Site 2 of 2 in cluster E**

**Relative:**  
**Lower**  
**Actual:**  
**1419 ft.**

WIMN:	
Name:	LAKE SUPERIOR COLLEGE CENTER FOR ADVANCED AVIATION
Address:	4960 AIRPORT RD
Address Description:	4960 Airport Rd
City, State, Zip:	HERMANTOWN, MN 55811-1503
Status:	Y
Latitude:	46.83728722
Longitude:	-92.199664940000005
Item ID:	223162-AISI0000223162
AI ID:	223162
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	223162
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LAKE SUPERIOR COLLEGE CENTER FOR ADVANCED AVIATION (Continued)**

**S122448464**

City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/05/2018
Timestamp of Creation:	04/05/2018
User Name of Creator:	swright1
Timestamp of Last Update:	04/05/2018
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Hazardous Waste, Very small quantity generator
Activity List:	Hazardous Waste, Very small quantity generator
MPCA ID:	MNS000320952
MPCA List:	MNS000320952
Program List:	Hazardous Waste
Classification:	Colleges, Universities, and Professional Schools ; Other Technical and Trade Schools
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/223162">https://webapp.pca.state.mn.us/wimn/site/223162</a>

**D31**  
**West**  
**< 1/8**  
**0.068 mi.**  
**357 ft.**

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5**  
**AIRPORT ROAD**  
**DULUTH, MN 55811**  
**Site 3 of 3 in cluster D**

**MN LS S108975280**  
**MN WIMN N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1420 ft.**

MN LS:	
Link ID:	5585
EPA ID:	Not reported
MPCA ID:	VP15150
Method:	M1
CERCLIS:	No
National Priorities List:	No
PLP:	No
Voluntary Cleanup & Investigation:	Yes
RCRA Treatment Storage & Disposal:	No
RCRA Generator:	No
Solid Waste Permit:	No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)

S108975280

Dumps: No  
No Further Remedial Action Planned: No  
Delisted From PLP By MPCA: No  
LCP: No  
Brownfield: No  
Entity Type: VIC

WIMN:

Name: DULUTH INTERNATIONAL AIRPORT - BLOCK 5  
Address: AIRPORT ROAD  
Address Description: Airport Road  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.836402900000003  
Longitude: -92.198184299999994  
Item ID: 189213-AISI0000189213  
AI ID: 189213  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 189213  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Investigation and Cleanup  
Program List: SR  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: CSLL: Center of Site  
Township, Range, Direction, Section QQ: 05015201cc  
PLS Township: 050  
Range: 15  
Range Direction: W  
Section: 01  
Quarters: cc  
Collection Method Code: A1  
Method Description: Address Matching House Number  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 08/25/2017  
Timestamp of Creation: 11/09/2005  
User Name of Creator: DELTA\_M\_R2  
Timestamp of Last Update: 08/25/2017  
User Name of Last Update: geo\_nc  
Status Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH INTERNATIONAL AIRPORT - BLOCK 5 (Continued)**

**S108975280**

The Delta Spatial ID: 50647296  
 Activity: Brownfields, Voluntary Investigation and Cleanup  
 Activity List: Brownfields, Voluntary Investigation and Cleanup  
 MPCA ID: VP15150  
 MPCA List: VP15150  
 Program List: Investigation and Cleanup  
 Classification: Not reported  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/189213>

WIMN Detail as of Aug 2016:  
 Legislative District: 3B  
 Latitude: 46.83560649  
 Longitude: -92.20880300  
 Activity: Voluntary Investigation & Cleanup (VIC)  
 MPCA ID: VP15150  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Address Matching House Number  
 Status: Inactive

**32**  
**South**  
**< 1/8**  
**0.088 mi.**  
**466 ft.**

**FEDERAL PRISON**  
**6902 AIRPORT RD**  
**DULUTH, MN 55811**

**MN LUST** **S106548184**  
**MN SRS** **N/A**  
**MN Financial Assurance**  
**MN WIMN**

**Relative:**  
**Lower**  
**Actual:**  
**1425 ft.**

**LUST:**  
 Name: FEDERAL PRISON  
 Address: 6902 AIRPORT RD  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 190088-AREA0000000002  
 MNPCA ID: 217125  
 AI ID: 190088  
 AI Name: Federal Prison  
 Site Type: Leak Site  
 Hydro: John Kaehler (no longer at MPCA)  
 Project Manager: Steve Leppala (no longer at MPCA)  
 Latitude: 46.83537332  
 Longitude: -92.19388582  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/190088>  
 Leak Discovered: 08/05/1991  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Not reported  
 Site Closed: 02/08/1994  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported  
 SI Type: Not reported  
 Leak Reported: 08/05/1991

0816:  
 Program IN: 217125

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON (Continued)**

**S106548184**

Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 4415  
Township Name: Whiteface Reservoir  
Addr ID: 275747  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 08/05/1996 00:00:00  
Interest End Date: 04/14/2011 13:40:58  
Source: CORE  
Site ID: 242010  
Leak Site: 1  
File Archive Box: 52  
File Archive Lot: 96/307  
Soil Digout Date: 08/05/1991  
Cubic Yards Excavated: 110  
Cond Closure Date: Not reported  
Complete Site Closure Date: 02/08/1994 00:00:00  
Contaminated Soils Remaining: N  
Enforcement Action Begin Date: 08/29/1991  
Last Trust Eligible: N  
Offsite Contamination: N  
Reimbursement Awarded: N  
Release Discovered Date: 08/05/1991  
Leak Reported Date: 08/05/1991  
Std Letter Response Date: Not reported  
Surface Water Impact: N  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:46  
TMSP Last Update: 09/03/2013 14:05:12  
Staff ID Last Update: NBLASIN  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: U  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

**GW Info:**

MN PCA ID: 217125  
Dw Supply Contam: N  
Free Product Observed: N  
Free Product Thickness: Not reported  
Ground Water Contam: Y  
GW Cleanup Goal: 100

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON (Continued)**

**S106548184**

Gw Exceeds Cleanup Goal: N  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: N  
Well Type Code: Not reported  
Impacted Aquifer Code: 3  
TMSP Added: 12/04/1999 14:07:29  
TMSP Last Update: 11/04/2003 12:57:07  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 217125  
Prod Released Sequence Id: 403245  
Leak Product: 8  
Tmsp Added: 12/27/1999 12:59:09  
Tmsp Last\_updt: 05/04/2002 09:14:28  
Staff Id Last Updt: TANKS

**SRS:**

Name: FEDERAL PRISON  
Address: 6902 AIRPORT RD  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0004415  
Item ID: 190088-AREA0000000002  
AI ID: 190088  
AI Name: Federal Prison  
Facility Type: LEAK  
Hydro: John Kaehler (no longer at MPCA)  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83537332000  
Longitude: -92.19388582000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/190088>  
Leak Discovered: 08/05/1991  
Leak Reported: 08/05/1991  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 02/08/1994  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

FEDERAL PRISON (Continued)

S106548184

Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19910001  
Act Desc: Leak Site Investigation  
Status: Closed

MN Financial Assurance 1:

PROGRAM ID: 217125  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 275747  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 4415  
Interest Start Date: 08/05/1996  
Interest End Date: 04/14/2011  
Activity Flag: N  
TMSP Added: 11/14/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 242010  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 217125  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 275747  
Interest Telephone: Not reported  
Preferred ID: 4415  
Interest Start Date: 08/05/1996  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/14/2006 08:34:24  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 274836

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON (Continued)**

**S106548184**

Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 73531339  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 1935  
Interest Start Date: 11/09/1989  
Interest End Date: 02/08/1994  
Activity Flag: N  
TMSP Added: 04/16/2015  
TMSP Last Update: 03/10/2016 17:55:01  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 242010  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Old Deleted Data

PROGRAM ID: 274836  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 73531339  
Interest Telephone: Not reported  
Preferred ID: 1935  
Interest Start Date: 11/03/2003  
Interest End Date: Not reported  
Activity Flag: N  
TMSP Added: 11/03/2003  
TMSP Last Update: 04/16/2015 10:11:20  
Staff ID Last Update: SFRYE  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Old Deleted Data

Latitude Longitude:  
Program Id: 274836  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Main Site Building  
TMSP Added: 04/16/2015 10:19:07  
TMSP Last Update: 04/16/2015 10:19:07  
Staff ID Last Update: SFRYE  
Coord Source Type: Not reported  
Org Name Source: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON (Continued)**

**S106548184**

Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 242010  
Spatial ID: 73531670  
  
Program Id: 274836  
Lat/Long ID: 173879  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 7.33  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 37.98  
Collection Date: 04/16/2015 10:18:42  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 19:04:07  
TMSP Last Update: 04/16/2015 10:18:48  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 242010  
Spatial ID: 73531670

Latitude Longitude:  
Program Id: 217125  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 01/20/2011 14:57:39  
TMSP Last Update: 04/05/2011 07:41:57  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 242010  
Spatial ID: 51743061

Program Id: 217125  
Lat/Long ID: 173879  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 7.33  
Longitude Degrees: -92  
Longitude Minutes: 11

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FEDERAL PRISON (Continued)**

**S106548184**

Longitude Seconds: 37.98  
Collection Date: 04/16/2015 10:18:42  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 19:04:07  
TMSP Last Update: 04/16/2015 10:18:48  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 242010  
Spatial ID: 51743061

Staff Name:

Program Id: 217125  
Staff Sequence ID: 16572  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:13  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

Program Id: 217125  
Staff Sequence ID: 27553  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:24  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: HYD  
Staff ID Number: 1612

Program Id: 217125  
Staff Sequence ID: 1401  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:03:58  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3340

WIMN:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

FEDERAL PRISON (Continued)

S106548184

Name:	FEDERAL PRISON
Address:	6902 AIRPORT RD
Address Description:	6902 Airport Rd
City,State,Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.8353696
Longitude:	-92.193885800000004
Item ID:	190088-AISI0000190088
AI ID:	190088
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	190088
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Investigation and Cleanup
Program List:	SR
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/25/2016
Timestamp of Creation:	11/14/2006
User Name of Creator:	DELTA_M_R2
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	51743060
Activity:	Petroleum Remediation, Leak Site
Activity List:	Petroleum Remediation, Leak Site
MPCA ID:	Multiple IDs
MPCA List:	LS0001935; LS0004415
Program List:	Investigation and Cleanup
Classification:	Correctional Institutions
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/190088">https://webapp.pca.state.mn.us/wimn/site/190088</a>

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FEDERAL PRISON (Continued)**

**S106548184**

WIMN Detail as of Aug 2016:

Legislative District:	6B
Latitude:	46.83536964
Longitude:	-92.19388587
Activity:	Leak Site
MPCA ID:	4415
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive

**33**  
**SSE**  
 < 1/8  
 0.104 mi.  
 547 ft.

**DULUTH TRUCK DRIVING SCHOOL**  
**8222 STEBNER RD**  
**DULUTH, MN 55811**

**RCRA NonGen / NLR**

**1000428695**  
**MND981793763**

**Relative:**  
**Lower**  
**Actual:**  
**1421 ft.**

RCRA Listings:

Date Form Received by Agency:	19860916
Handler Name:	DULUTH TRUCK DRIVING SCHOOL
Handler Address:	8222 STEBNER RD
Handler City,State,Zip:	DULUTH, MN 55811
EPA ID:	MND981793763
Contact Name:	JIM KOSKA
Contact Address:	8222 STEBNER RD
Contact City,State,Zip:	DULUTH, MN 55811
Contact Telephone:	651-227-2637
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	8222 STEBNER RD
Mailing City,State,Zip:	DULUTH, MN 55811
Owner Name:	DULUTH TRUCK DRIVING SCHOOL
Owner Type:	Private
Operator Name:	NAME NOT REPORTED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**1000428695**

Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20070620
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NAME NOT REPORTED
Legal Status:	Private

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH TRUCK DRIVING SCHOOL (Continued)**

**1000428695**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ADDRESS NOT REPORTED
Owner/Operator City,State,Zip:	CITY NOT REPORTED, AK 99998
Owner/Operator Telephone:	312-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	DULUTH TRUCK DRIVING SCHOOL
Legal Status:	Private
Date Became Current:	19990726
Date Ended Current:	19990514
Owner/Operator Address:	8222 STEBNER RD
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	651-227-2637
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19860916
Handler Name:	DULUTH TRUCK DRIVING SCHOOL
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found
--------------	----------------------

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

**34**  
**WNW**  
**1/8-1/4**  
**0.139 mi.**  
**732 ft.**

**AIRPORT MAINTENANCE GARAGE**  
**DULUTH INTERNATIONAL AIRPORT**  
**DULUTH, MN 55811**

**MN LUST** **S106456364**  
**MN SRS** **N/A**  
**MN Financial Assurance**  
**MN VAPOR**

**Relative:**  
**Lower**  
**Actual:**  
**1418 ft.**

LUST:  
 Name: AIRPORT MAINTENANCE GARAGE  
 Address: DULUTH INTERNATIONAL AIRPORT  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 37342-AREA0000000001



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

MNPCA ID: 216819  
AI ID: 37342  
AI Name: Duluth International Airport Usaf  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: James Joslyn (no longer at MPCA)  
Latitude: 46.83672282  
Longitude: -92.19053562  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/37342>  
Leak Discovered: 06/04/1991  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: Hertz-Hk Enterprises Inc  
Site Closed: 09/27/1994  
Owner Address: 4701 Grinden Dr-Duluth Airport  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55811  
SI Type: Underground Storage Tank System  
Leak Reported: 06/05/1991

0816:  
Program IN: 216819  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 4092  
Township Name: Not reported  
Addr ID: 22405  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 08/09/1996 00:00:00  
Interest End Date: 04/14/2011 14:50:29  
Source: CORE  
Site ID: 57853  
Leak Site: 1  
File Archive Box: 18  
File Archive Lot: 97/11  
Soil Digout Date: 06/04/1991  
Cubic Yards Excavated: 250  
Cond Closure Date: Not reported  
Complete Site Closure Date: 09/27/1994 00:00:00  
Contaminated Soils Remaining: S  
Enforcement Action Begin Date: 06/12/1991  
Last Trust Eligible: Y  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 06/04/1991  
Leak Reported Date: 06/05/1991  
Std Letter Response Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:46  
TMSP Last Update: 08/21/2012 14:23:00  
Staff ID Last Update: JDIETZ  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

GW Info:

MN PCA ID: 216819  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: Not reported  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:29  
TMSP Last Update: 11/04/2003 12:57:07  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

Prodrel:

MN PCA ID: 216819  
Prod Released Sequence Id: 324613  
Leak Product: 5  
Tmsp Added: 12/04/1999 14:04:36  
Tmsp Last\_updt: 05/04/2002 09:13:23  
Staff Id Last Updt: TANKS  
  
MN PCA ID: 216819  
Prod Released Sequence Id: 320767

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Leak Product: 6  
Tmsp Added: 12/04/1999 14:04:32  
Tmsp Last\_updt: 05/04/2002 09:13:23  
Staff Id Last Updt: TANKS

Name: AIRPORT MAINTENANCE GARAGE  
Address: DULUTH INTERNATIONAL AIRPORT  
City,State,Zip: DULUTH, MN 55811  
Item ID: 37342-AREA0000000001  
MNPCA ID: 216819  
AI ID: 37342  
AI Name: Duluth International Airport Usaf  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: James Joslyn (no longer at MPCA)  
Latitude: 46.83672282  
Longitude: -92.19053562  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/37342>  
Leak Discovered: 06/05/1991  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: Hertz-Hk Enterprises Inc  
Site Closed: 09/23/1994  
Owner Address: 4701 Grinden Dr-Duluth Airport  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55811  
SI Type: Underground Storage Tank System  
Leak Reported: 06/05/1991

0816:  
Program IN: 216819  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 4092  
Township Name: Not reported  
Addr ID: 22405  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 08/09/1996 00:00:00  
Interest End Date: 04/14/2011 14:50:29  
Source: CORE  
Site ID: 57853  
Leak Site: 1  
File Archive Box: 18  
File Archive Lot: 97/11  
Soil Digout Date: 06/04/1991  
Cubic Yards Excavated: 250

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Cond Closure Date: Not reported  
Complete Site Closure Date: 09/27/1994 00:00:00  
Contaminated Soils Remaining: S  
Enforcement Action Begin Date: 06/12/1991  
Last Trust Eligible: Y  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 06/04/1991  
Leak Reported Date: 06/05/1991  
Std Letter Response Date: Not reported  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:46  
TMSP Last Update: 08/21/2012 14:23:00  
Staff ID Last Update: JDIETZ  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

GW Info:

MN PCA ID: 216819  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: Not reported  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:29  
TMSP Last Update: 11/04/2003 12:57:07  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Prodrel:

MN PCA ID: 216819  
Prod Released Sequence Id: 324613  
Leak Product: 5  
Tmsp Added: 12/04/1999 14:04:36  
Tmsp Last\_updt: 05/04/2002 09:13:23  
Staff Id Last Updt: TANKS

MN PCA ID: 216819  
Prod Released Sequence Id: 320767  
Leak Product: 6  
Tmsp Added: 12/04/1999 14:04:32  
Tmsp Last\_updt: 05/04/2002 09:13:23  
Staff Id Last Updt: TANKS

Name: DULUTH AIR FORCE BASE  
Address: DULUTH INTERNATIONAL AIRPORT  
City,State,Zip: DULUTH, MN 55811  
Item ID: 37342-AREA0000000002  
MNPCA ID: 219281  
AI ID: 37342  
AI Name: Duluth International Airport Usaf  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Dawn Duncanson-Davison (no longer at MPCA)  
Latitude: 46.83879471  
Longitude: -92.20134735  
Coord Collection Method: Digitized-DRG  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/37342>  
Leak Discovered: 08/11/1993  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: Hertz-Hk Enterprises Inc  
Site Closed: 03/15/1996  
Owner Address: 4701 Grinden Dr-Duluth Airport  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55811  
SI Type: Underground Storage Tank System  
Leak Reported: 08/11/1993

0816:

Program IN: 219281  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 6647  
Township Name: Not reported  
Addr ID: 22405  
Active Flag: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 10/16/1997 00:00:00  
Interest End Date: 03/24/2006 13:05:42  
Source: CORE  
Site ID: 57853  
Leak Site: 1  
File Archive Box: 30  
File Archive Lot: 98/206  
Soil Digout Date: 08/17/1993  
Cubic Yards Excavated: 4120  
Cond Closure Date: 11/30/1994  
Complete Site Closure Date: 03/15/1996 00:00:00  
Contaminated Soils Remaining: Y  
Enforcement Action Begin Date: 08/20/1993  
Last Trust Eligible: Y  
Offsite Contamination: N  
Reimbursement Awarded: N  
Release Discovered Date: 08/11/1993  
Leak Reported Date: 08/11/1993  
Std Letter Response Date: Not reported  
Surface Water Impact: N  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:48  
TMSP Last Update: 04/16/2014 12:03:06  
Staff ID Last Update: CMCLAIN  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

**GW Info:**

MN PCA ID: 219281  
Dw Supply Contam: Not reported  
Free Product Observed: Y  
Free Product Thickness: Not reported  
Ground Water Contam: Y  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:31  
TMSP Last Update: 11/04/2003 12:57:07  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

Prodrel:

MN PCA ID: 219281  
Prod Released Sequence Id: 321652  
Leak Product: 4  
Tmsp Added: 12/04/1999 14:04:33  
Tmsp Last\_updt: 05/04/2002 09:22:23  
Staff Id Last Updt: TANKS

MN PCA ID: 219281  
Prod Released Sequence Id: 324820  
Leak Product: 6  
Tmsp Added: 12/04/1999 14:04:36  
Tmsp Last\_updt: 05/04/2002 09:22:23  
Staff Id Last Updt: TANKS

SRS:

Name: DULUTH AIR FORCE BASE  
Address: DULUTH INTERNATIONAL AIRPORT  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0006647  
Item ID: 37342-AREA0000000002  
AI ID: 37342  
AI Name: Duluth International Airport Usaf  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Dawn Duncanson-Davison (no longer at MPCA)  
Latitude: 46.83879471000  
Longitude: -92.20134735000  
Coord Collection Method: Digitized-DRG  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/37342>  
Leak Discovered: 08/11/1993  
Leak Reported: 08/11/1993  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 03/15/1996  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

BPET:	Not reported
BVIC:	Not reported
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW19930001
Act Desc:	Leak Site Investigation
Status:	Closed
Name:	AIRPORT MAINTENANCE GARAGE
Address:	DULUTH INTERNATIONAL AIRPORT
City,State,Zip:	DULUTH, MN 55811
Facility ID:	LS0004092
Item ID:	37342-AREA0000000001
AI ID:	37342
AI Name:	Duluth International Airport Usaf
Facility Type:	LEAK
Hydro:	Not reported
Project Manager:	James Joslyn (no longer at MPCA)
Latitude:	46.83672282000
Longitude:	-92.19053562000
Coord Collection Method:	Digitized - MPCA internal map
Migrated:	Not reported
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/37342">https://webapp.pca.state.mn.us/wimn/site/37342</a>
Leak Discovered:	06/05/1991
Leak Reported:	06/05/1991
Application / Notification Received:	Not reported
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Site Closed:	09/23/1994
Owner:	Not reported
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
Acreage:	0.00000000
BPET:	Not reported
BVIC:	Not reported
SEMS:	Not reported
UNP Dump:	Not reported
IC:	Not reported
HRS Score:	0
Score Year:	Not reported
Activity ID:	SIW19940001
Act Desc:	Reopened Leak Site Investigation
Status:	Closed
Name:	AIRPORT MAINTENANCE GARAGE
Address:	DULUTH INTERNATIONAL AIRPORT
City,State,Zip:	DULUTH, MN 55811
Facility ID:	LS0004092
Item ID:	37342-AREA0000000001
AI ID:	37342



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

AI Name: Duluth International Airport Usaf  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: James Joslyn (no longer at MPCA)  
Latitude: 46.83672282000  
Longitude: -92.19053562000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/37342>  
Leak Discovered: 06/04/1991  
Leak Reported: 06/05/1991  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 09/27/1994  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19910001  
Act Desc: Leak Site Investigation  
Status: Closed

**MN Financial Assurance 1:**

PROGRAM ID: 216819  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 22405  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 4092  
Interest Start Date: 08/09/1996  
Interest End Date: 04/14/2011  
Activity Flag: N  
TMSP Added: 03/23/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 57853  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 216819

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 177023  
Interest Telephone: Not reported  
Preferred ID: 4092  
Interest Start Date: 08/09/1996  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 03/23/2006 13:20:57  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 219281  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 22405  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 6647  
Interest Start Date: 10/16/1997  
Interest End Date: 03/24/2006  
Activity Flag: N  
TMSP Added: 03/24/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 57853  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 219281  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 177023  
Interest Telephone: Not reported  
Preferred ID: 6647  
Interest Start Date: 10/16/1997  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 03/24/2006 13:05:43  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 219753  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 177023  
Interest Telephone: 2187276886  
Preferred ID: 7131  
Interest Start Date: 07/10/1998  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/20/2006 07:20:02  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 222056  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 269064  
Interest Telephone: Not reported  
Preferred ID: 9527  
Interest Start Date: 01/27/1999  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 10/16/2007 17:12:06  
Staff ID Last Update: CMCLAIN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 216819  
Lat/Long ID: 3367  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 15.8547  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 26.8395  
Collection Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:06  
TMSP Last Update: 06/03/2008 10:36:22  
Staff ID Last Update: SCHILD  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: IU  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 57853  
Spatial ID: 51063877

Program Id: 216819  
Lat/Long ID: 48239  
Latitude Degrees: 46  
Latitude Minutes: 51  
Latitude Seconds: 3.91  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 3.14  
Collection Date: 08/08/2000 00:00:00  
Lat/Long Description: Not reported  
TMSP Added: 08/28/2000 10:32:40  
TMSP Last Update: 07/14/2004 22:02:45  
Staff ID Last Update: jbeauma  
Coord Source Type: 2  
Org Name Source: MPCA  
Coord Coll Meth: A1  
Map Scale Code: E  
Source: CORE  
Site ID: 57853  
Spatial ID: 51063877

Staff Name:  
Program Id: 216819  
Staff Sequence ID: 16284  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:13  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3296

Program Id: 216819  
Staff Sequence ID: 12158  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:09  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Functional Area Code: SPS  
Staff ID Number: 4103

Latitude Longitude:  
Program Id: 219281  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 19.66687658  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 4.86388341  
Collection Date: 08/14/2007 00:00:00  
Lat/Long Description: Site Center  
TMSP Added: 08/14/2007 09:09:06  
TMSP Last Update: 08/14/2007 09:09:06  
Staff ID Last Update: GZARLIN  
Coord Source Type: 2  
Org Name Source: Mark Elliot  
Coord Coll Meth: I1  
Map Scale Code: B  
Source: TALES  
Site ID: 57853  
Spatial ID: 51070266

Program Id: 219281  
Lat/Long ID: 48239  
Latitude Degrees: 46  
Latitude Minutes: 51  
Latitude Seconds: 3.91  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 3.14  
Collection Date: 08/08/2000 00:00:00  
Lat/Long Description: Not reported  
TMSP Added: 08/28/2000 10:32:40  
TMSP Last Update: 07/14/2004 22:02:45  
Staff ID Last Update: jbeauma  
Coord Source Type: 2  
Org Name Source: MPCA  
Coord Coll Meth: A1  
Map Scale Code: E  
Source: CORE  
Site ID: 57853  
Spatial ID: 51070266

Staff Name:  
Program Id: 219281  
Staff Sequence ID: 3409  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:00  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 4114  
  
Program Id: 219281  
Staff Sequence ID: 18607  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:15  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 4104

Latitude Longitude:  
Program Id: 219753  
Lat/Long ID: 5932  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 45.5814  
Longitude Degrees: -92  
Longitude Minutes: 13  
Longitude Seconds: 7.3712  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:09  
TMSP Last Update: 03/10/2011 11:01:50  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: IU  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 223559  
Spatial ID: 51817533

Program Id: 219753  
Lat/Long ID: 170229  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 56.23  
Longitude Degrees: -92  
Longitude Minutes: 10  
Longitude Seconds: 25.56  
Collection Date: 03/02/2011 18:23:50  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 19:02:04  
TMSP Last Update: 03/02/2011 18:56:53  
Staff ID Last Update: MAPT\_NC  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Map Scale Code: Not reported  
Source: CORE  
Site ID: 223559  
Spatial ID: 51817533

Staff Name:

Program Id: 219753  
Staff Sequence ID: 3858  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:00  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 4114

Program Id: 219753  
Staff Sequence ID: 19057  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:16  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

Latitude Longitude:

Program Id: 222056  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 44.560914  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 56.806002  
Collection Date: 11/03/2005 00:00:00  
Lat/Long Description: Site Center  
TMSP Added: 11/14/2005 09:18:13  
TMSP Last Update: 11/14/2005 09:18:13  
Staff ID Last Update: RSUCHAN  
Coord Source Type: 2  
Org Name Source: Rebecca Gorney  
Coord Coll Meth: I2  
Map Scale Code: B  
Source: TALES  
Site ID: 59556326  
Spatial ID: 53792781

Program Id: 222056

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Lat/Long ID: 193876  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 37.96  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 50.71  
Collection Date: 04/28/2011 09:36:23  
Lat/Long Description: Not reported  
TMSP Added: 03/10/2011 14:03:09  
TMSP Last Update: 04/28/2011 09:36:23  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 59556326  
Spatial ID: 53792781

Staff Name:

Program Id: 222056  
Staff Sequence ID: 5984  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:02  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 4114

Program Id: 222056  
Staff Sequence ID: 21242  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:18  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3451

VAPOR:

Name: AIRPORT MAINTENANCE GARAGE  
Address: DULUTH INTERNATIONAL AIRPORT  
City,State,Zip: DULUTH, MN  
Site ID: LS0004092  
Delta Site ID: 37342  
WIMN Link: <https://webapp.pca.state.mn.us/wimn/site/37342>  
AI Name: Duluth International Airport Usaf



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**AIRPORT MAINTENANCE GARAGE (Continued)**

**S106456364**

Vapor Concern at Site:	Yes: Priority Leak Site
Vapor Reassessment:	Yes
Item ID:	37342-AREA0000000001
Site Type:	Leak Site
Method Desc:	Digitized - MPCA internal map
Latitude:	46.83672282
Longitude:	-92.19053562
Name:	DULUTH AIR FORCE BASE
Address:	DULUTH INTERNATIONAL AIRPORT
City,State,Zip:	DULUTH, MN
Site ID:	LS0006647
Delta Site ID:	37342
WIMN Link:	<a href="https://webapp.pca.state.mn.us/wimn/site/37342">https://webapp.pca.state.mn.us/wimn/site/37342</a>
AI Name:	Duluth International Airport Usaf
Vapor Concern at Site:	Yes: Priority Leak Site
Vapor Reassessment:	Yes
Item ID:	37342-AREA0000000002
Site Type:	Leak Site
Method Desc:	Digitized-DRG
Latitude:	46.83879471
Longitude:	-92.20134735

**F35**  
**West**  
**1/8-1/4**  
**0.148 mi.**  
**780 ft.**

**FORMER MANG TANK FARM**  
**4977 AIRPORT RD**  
**DULUTH, MN 55811**  
**Site 1 of 6 in cluster F**

**MN Financial Assurance**    **S116688921**  
**MN WIMN**                    **N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1412 ft.**

MN Financial Assurance 1:	
PROGRAM ID:	68953446
Township Name:	Not reported
Region:	1
Interest Type:	Composting Facility
ADDR ID:	68953432
Interest Telephone:	NO CORE PI PH.
Preferred ID:	11720
Interest Start Date:	06/22/2014
Interest End Date:	Not reported
Activity Flag:	Y
TMSF Added:	06/16/2014
TMSF Last Update:	03/25/2016 16:50:30
Staff ID Last Update:	SFRYE
Source:	CORE
Source ID:	68953433
Country Code:	USA
FOR State:	Not reported
FOR Zone:	Not reported
FIPS County Code:	137
Comments:	Not reported
Latitude Longitude:	
Program Id:	68953446
Lat/Long ID:	0
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MANG TANK FARM (Continued)**

**S116688921**

Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 06/17/2014 12:45:44  
TMSP Last Update: 06/17/2014 13:01:02  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 68953433  
Spatial ID: 68953447

Program Id: 68953446  
Lat/Long ID: 206679  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 18.72  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 23.42  
Collection Date: 06/17/2014 13:00:15  
Lat/Long Description: Not reported  
TMSP Added: 06/16/2014 12:45:09  
TMSP Last Update: 06/17/2014 13:00:16  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 68953433  
Spatial ID: 68953447

**WIMN:**

Name: FORMER MANG TANK FARM  
Address: 4977 AIRPORT RD  
Address Description: 4977 Airport Rd  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.838534099999997  
Longitude: -92.206505899999996  
Item ID: 193070-AISI0000193070  
AI ID: 193070  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 193070  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Investigation and Cleanup

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER MANG TANK FARM (Continued)**

**S116688921**

Program List:	SR
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/25/2016
Timestamp of Creation:	06/16/2014
User Name of Creator:	DELTA_M_R2
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	68953434
Activity:	Petroleum Remediation, Contaminated Soil Treatment Facility
Activity List:	Petroleum Remediation, Contaminated Soil Treatment Facility
MPCA ID:	CS0011720
MPCA List:	CS0011720
Program List:	Investigation and Cleanup
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/193070">https://webapp.pca.state.mn.us/wimn/site/193070</a>
WIMN Detail as of Aug 2016:	
Legislative District:	6B
Latitude:	46.83853411
Longitude:	-92.20650594
Activity:	Contaminated Soil Treatment Facility
MPCA ID:	11720
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Active

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**F36**  
**West**  
**1/8-1/4**  
**0.171 mi.**  
**903 ft.**

**DEFENSE REVITILIZATION AND MARKETING**  
**4997 AIRPORT RD**  
**DULUTH, MN 55811**  
**Site 2 of 6 in cluster F**

**MN LUST**  
**MN SRS**  
**MN SPILLS**  
**MN Financial Assurance**  
**MN WIMN**  
**S106550598**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1411 ft.**

**LUST:**  
 Name: DEFENSE REVITILIZATION AND MARKETING  
 Address: 4997 AIRPORT RD  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 199185-AREA0000000001  
 MNPCA ID: 222753  
 AI ID: 199185  
 AI Name: Defense Revitilization And Marketing  
 Site Type: Leak Site  
 Hydro: Not reported  
 Project Manager: Steve Leppala (no longer at MPCA)  
 Latitude: 46.8387676  
 Longitude: -92.20980593  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/199185>  
 Leak Discovered: 06/17/1997  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Not reported  
 Site Closed: 01/14/1998  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported  
 SI Type: Not reported  
 Leak Reported: 06/18/1997

**0816:**  
 Program IN: 222753  
 Facility Address 2: Not reported  
 State Code: MN  
 Country Code: USA  
 Foreign State: Not reported  
 Foreign Zone: Not reported  
 Leak ID: 10249  
 Township Name: Whiteface Reservoir  
 Addr ID: 269757  
 Active Flag: N  
 Interest Type: LS  
 Interest Phone: NO CORE PI PH.  
 Interest Start Date: 03/24/1999 13:44:24  
 Interest End Date: 11/29/2006 08:17:49  
 Source: CORE  
 Site ID: 245826  
 Leak Site: 1  
 File Archive Box: 09  
 File Archive Lot: 01/124  
 Soil Digout Date: 06/20/1997  
 Cubic Yards Excavated: 100  
 Cond Closure Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEFENSE REVITILIZATION AND MARKETING (Continued)**

**S106550598**

Complete Site Closure Date: 01/14/1998 00:00:00  
Contaminated Soils Remaining: U  
Enforcement Action Begin Date: 06/25/1997  
Last Trust Eligible: N  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 06/17/1997  
Leak Reported Date: 06/18/1997  
Std Letter Response Date: 06/25/1997  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:51  
TMSP Last Update: 07/16/2014 14:05:08  
Staff ID Last Update: DBOETTC  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: U  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

**GW Info:**

MN PCA ID: 222753  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: N  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:34  
TMSP Last Update: 11/04/2003 12:57:08  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

Prodrel:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEFENSE REVITILIZATION AND MARKETING (Continued)**

**S106550598**

MN PCA ID: 222753  
Prod Released Sequence Id: 35799  
Leak Product: 8  
Tmsp Added: 03/31/2003 15:36:27  
Tmsp Last\_updt: 03/31/2003 15:36:27  
Staff Id Last Updt: AMUSCH

**SRS:**

Name: DEFENSE REVITILIZATION AND MARKETING  
Address: 4997 AIRPORT RD  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0010249  
Item ID: 199185-AREA0000000001  
AI ID: 199185  
AI Name: Defense Revitilization And Marketing  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83876760000  
Longitude: -92.20980593000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/199185>  
Leak Discovered: 06/17/1997  
Leak Reported: 06/18/1997  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 01/14/1998  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19970001  
Act Desc: Leak Site Investigation  
Status: Closed

**SPILLS:**

Name: AIR NATIONAL GUARD - 148TH FIGHTER WING  
Address: 4997 AIRPORT ROAD  
City,State,Zip: DULUTH, MN  
Program ID: 304637  
Preferred ID: 62266  
Incident ID: 62266

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEFENSE REVITILIZATION AND MARKETING (Continued)**

**S106550598**

Incident Date: 11/23/2004  
Program: Emergency Response  
Incident Types: Spill or Release  
Duty Officer Number: Not reported  
Lead Investigator: Steve Leppala  
Incident Status: Closed or Completed  
Closure Type: Response/Action Completed  
AI ID source: Not reported  
Source name: Air National Guard - 148th Fighter Wing  
Source Address: Not reported  
Source City: Not reported  
Source State: Not reported  
Source ZIP: Not reported  
Substance: 30 gallons Other substance  
Latitude: Not reported  
Longitude: Not reported  
Source CM: Not reported

Affected Area:  
Program ID: 304637  
Spill Inc Affected ID: 174573  
Spill Inc Affected Code: 14  
Tmsp Added: 11/30/2004 11:28:05  
Tmsp Last Updated: 11/30/2004 11:28:05  
Staff ID Last Update: SLEPPAL

Product:  
Program ID: 304637  
Spill Incident Accuracy ID: 174572  
Spill Product Code: 21  
Spill Qty Units: 5  
Spill Incident Accuracy: 1  
Spill Released Qty: 30  
Tmsp Added: 11/30/2004 11:28:05  
Tmsp Last Update: 11/30/2004 11:28:05  
Staff ID Last Update: SLEPPAL

Facility Information:  
Program ID: 304637  
Facility Address 2: Not reported  
Spill Date: 11/23/2004

MN Financial Assurance 1:  
PROGRAM ID: 222753  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 269757  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 10249  
Interest Start Date: 03/24/1999  
Interest End Date: 11/29/2006  
Activity Flag: N  
TMSP Added: 11/29/2006  
TMSP Last Update: 11/10/2014 08:17:06

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEFENSE REVITILIZATION AND MARKETING (Continued)**

**S106550598**

Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 245826  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 222753  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 269757  
Interest Telephone: Not reported  
Preferred ID: 10249  
Interest Start Date: 03/24/1999  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/29/2006 08:17:49  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 304637  
Township Name: Not reported  
Region: 1  
Interest Type: Spill site  
ADDR ID: 423489  
Interest Telephone: Not reported  
Preferred ID: 62266  
Interest Start Date: 11/30/2004  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 11/30/2004  
TMSP Last Update: 10/17/2005 07:52:34  
Staff ID Last Update: JFLODQU  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: \*\*No file\*\* Caller reports that during unloading of engine block pallet, pallet fell striking drum of brake fluid causing leak in drum. Spill cleanup is underway.

Latitude Longitude:  
Program Id: 222753  
Lat/Long ID: 8601  
Latitude Degrees: 46



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEFENSE REVITILIZATION AND MARKETING (Continued)**

**S106550598**

Latitude Minutes: 50  
Latitude Seconds: 11.2959  
Longitude Degrees: -92  
Longitude Minutes: 10  
Longitude Seconds: 36.8939  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:12  
TMSP Last Update: 03/14/2011 11:09:06  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 245826  
Spatial ID: 51830700

Program Id: 222753  
Lat/Long ID: 132633  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 19.56  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 35.32  
Collection Date: 03/14/2011 11:07:53  
Lat/Long Description: Not reported  
TMSP Added: 11/29/2006 08:18:00  
TMSP Last Update: 03/14/2011 11:07:53  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 245826  
Spatial ID: 51830700

Staff Name:  
Program Id: 222753  
Staff Sequence ID: 6639  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:03  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3433

Program Id: 222753  
Staff Sequence ID: 21905  
Staff Type: Not reported  
Staff Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DEFENSE REVITALIZATION AND MARKETING (Continued)**

**S106550598**

TMSP Added: 12/04/1999 14:04:18  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

**WIMN:**

Name: DEFENSE REVITALIZATION AND MARKETING  
Address: 4997 AIRPORT RD  
Address Description: 4997 Airport Rd  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.838767599999997  
Longitude: -92.209813600000004  
Item ID: 199185-AISI0000199185  
AI ID: 199185  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 199185  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Investigation and Cleanup  
Program List: SR  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DM  
Method Description: Digitized - MPCA internal map  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 04/26/2016  
Timestamp of Creation: 11/29/2006

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DEFENSE REVITILIZATION AND MARKETING (Continued)**

**S106550598**

User Name of Creator: DELTA\_M\_R2  
 Timestamp of Last Update: 04/26/2016  
 User Name of Last Update: spatial\_  
 Status Date: Not reported  
 The Delta Spatial ID: 51830699  
 Activity: Petroleum Remediation, Leak Site  
 Activity List: Petroleum Remediation, Leak Site  
 MPCA ID: LS0010249  
 MPCA List: LS0010249  
 Program List: Investigation and Cleanup  
 Classification: Not reported  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/199185>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
 Latitude: 46.83876765  
 Longitude: -92.20981369  
 Activity: Leak Site  
 MPCA ID: 10249  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Inactive

**37**  
**North**  
**1/8-1/4**  
**0.177 mi.**  
**932 ft.**

**DULUTH INTERNATIONAL AIRPORT**  
**DULUTH, MN**

**FUDS 1007211215**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1420 ft.**

FUDS:  
 EPA Region: 05  
 Installation ID: MN59799F237400  
 Congressional District Number: 8  
 Name: DULUTH INTERNATIONAL AIRPORT  
 FUDS Number: E05MN0033  
 City: DULUTH  
 State: MN  
 County: ST LOUIS  
 Object ID: 3849  
 USACE Division: nwd  
 USACE District: nwo  
 Status: Properties with projects  
 Current Owner: LOCAL: CITY SITE CO-OWNED BY CITY AND STATE , CITY SITE CO-OWNED BY CITY AND STATE , CITY SITE CO-OWNED BY CITY AND STATE  
 EMS Map Link: <https://fudsportal.usace.army.mil/ems/inventory/map?id=55056>  
 Eligibility: Eligible  
 Has Projects: Yes  
 NPL Status: Not on the NPL  
 Property History: The former Duluth Air Force Base was established in the early 1950's during the Korean War era. The site closed in 1982. Some of the major functions of the base included the operation and maintenance of Bomarc anti-aircraft missiles, Goose Decoy missiles, fighter aircraft, interceptors, and SAFE radar/communications. The base served to support the Duluth Missile Site near the French River, Minnesota, and the Finland Air Force Radar Station in Finland, Minnesota. The property was conveyed to the City, the Airport Authority, and to the National Guard. It is being used as an airport,

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH INTERNATIONAL AIRPORT (Continued)**

**1007211215**

for commercial and industrial purposes, and for National Guard training. Tanks, petroleum and building demolition are the subjects of the FUDS Program involvement.

Project Required: Yes  
 Feature Description: Not reported  
 Latitude: 46.84194444  
 Longitude: -92.19361111

**FUDS Detail as of Jan 2015:**

Fiscal Year: 2013  
 Federal Facility ID: MN9799F2374  
 RAB: Not reported  
 NPL Status: Not Listed  
 Description:

This site is located in the extreme northeast corner of Duluth, Minnesota, and is 6 miles from downtown Duluth. The Air Guard and main terminal facilities can be accessed via north Trunk Highway 53, then north on Stebner Road. Haines Road and Rice Lake Road run east of the airport. Strip-type commercial development abuts the south and some of the east boundary. The west and north sides are forested with some wetlands. The current uses are airport facility, commercial, and industrial. The National Guard also still uses some of the property. The former Duluth Air Force Base was established in the early 1950's during the Korean War era. The site closed in 1982. Some of the major functions of the base included the operation and maintenance of Bomarc anti-aircraft missiles, Goose Decoy missiles, fighter aircraft, interceptors, and SAFE radar/communications. The base served to support the Duluth Missile Site near the French River, Minnesota, and the Finland Air Force Radar Station in Finland, Minnesota. The property was conveyed to the City, the Airport Authority, and to the National Guard. It is being used as an airport, for commercial and industrial purposes, and for National Guard training. Tanks, petroleum and building demolition are the subjects of the FUDS Program involvement.

**History:**

CTC: 9450.60000000000004  
 Current Program: Not reported  
 Future Program: Not reported  
 Institutional ID: 55056

**F38**  
**West**  
**1/8-1/4**  
**0.177 mi.**  
**935 ft.**

**PLATING SPECIALTIES INC**  
**4505 TAYLOR CIR**  
**DULUTH, MN 55811**

**RCRA NonGen / NLR** **1000413278**  
**FINDS** **MND099789802**  
**ECHO**

**Site 3 of 6 in cluster F**

**Relative:**  
**Lower**  
**Actual:**  
**1410 ft.**

RCRA Listings:  
 Date Form Received by Agency: 19830729  
 Handler Name: PLATING SPECIALTIES INC  
 Handler Address: 4505 TAYLOR CIR  
 Handler City,State,Zip: DULUTH, MN 55811-1548  
 EPA ID: MND099789802  
 Contact Name: Not reported  
 Contact Address: Not reported  
 Contact City,State,Zip: Not reported  
 Contact Telephone: Not reported  
 Contact Fax: Not reported  
 Contact Email: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**1000413278**

Contact Title:		Not reported
EPA Region:		05
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		4505 TAYLOR CIR
Mailing City,State,Zip:		DULUTH, MN 55811-1548
Owner Name:	PLATING SPECIALTIES INC	
Owner Type:		Private
Operator Name:	NAME NOT REPORTED	
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDs Where RCRA CA has Been Imposed Universe:		No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**1000413278**

Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20070620
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Hazardous Waste Summary:**

Waste Code: F006  
Waste Description: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

Waste Code: F007  
Waste Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Waste Code: F008  
Waste Description: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Waste Code: F009  
Waste Description: SPENT STRIPPING AND CLEANING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

**Handler - Owner Operator:**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	PLATING SPECIALTIES INC
Legal Status:	Private
Date Became Current:	19990726
Date Ended Current:	19990514
Owner/Operator Address:	4505 TAYLOR CIR
Owner/Operator City,State,Zip:	DULUTH, MN 55811-1548
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NAME NOT REPORTED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ADDRESS NOT REPORTED

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**1000413278**

Owner/Operator City,State,Zip:	CITY NOT REPORTED, AK 99998
Owner/Operator Telephone:	312-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19830729
Handler Name:	PLATING SPECIALTIES INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found
--------------	----------------------

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**1000413278**

Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: No  
Agency Which Determined Violation: Not reported  
Violation Short Description: Not reported  
Date Violation was Determined: Not reported  
Actual Return to Compliance Date: Not reported  
Return to Compliance Qualifier: Not reported  
Violation Responsible Agency: Not reported  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: Not reported  
Date of Enforcement Action: Not reported  
Enforcement Responsible Agency: Not reported  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: Not reported  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: Not reported  
Enforcement Responsible Person: Not reported  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: No  
Agency Which Determined Violation: Not reported  
Violation Short Description: Not reported  
Date Violation was Determined: Not reported  
Actual Return to Compliance Date: Not reported  
Return to Compliance Qualifier: Not reported  
Violation Responsible Agency: Not reported  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: Not reported  
Date of Enforcement Action: Not reported  
Enforcement Responsible Agency: Not reported  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**1000413278**

Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19910107
Actual Return to Compliance Date:	19910225
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19910123
Enforcement Identifier:	002
Date of Enforcement Action:	19910123
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Letter of Warning (LOW)
Enforcement Responsible Person:	MNJPK
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**1000413278**

Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	19830407
Actual Return to Compliance Date:	19831123
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19831118
Enforcement Identifier:	001
Date of Enforcement Action:	19831118
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Notice of Violation (NOV)
Enforcement Responsible Person:	MNJPK
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Evaluation Action Summary:	
Evaluation Date:	19921216
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNSWL
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**1000413278**

Evaluation Date:	19910225
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier:	MNTBM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19850425
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNDW
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19910107
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNTBM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19910225
Scheduled Compliance Date:	19910123
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19830407
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	MNJPK
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19831123
Scheduled Compliance Date:	19831118
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

**FINDS:**

Registry ID: 110003783184

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**1000413278**

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.  
 STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000413278  
 Registry ID: 110003783184  
 DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003783184>  
 Name: PLATING SPECIALTIES INC  
 Address: 4505 TAYLOR CIR  
 City,State,Zip: DULUTH, MN 55811

**F39**  
**West**  
**1/8-1/4**  
**0.177 mi.**  
**935 ft.**

**PLATING SPECIALTIES INC**  
**4505 TAYLOR CIR**  
**DULUTH, MN 55811**  
**Site 4 of 6 in cluster F**

**MN ENF S109686140**  
**MN WIMN N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1410 ft.**

MN Enforcement Log :

Name: PLATING SPECIALTIES INC  
 Address: 4505 TAYLOR CIR  
 City,State,Zip: DULUTH, MN  
 Facility ID: MND099789802  
 Violation: 262.A - Generators - General  
 Determined Date: 01/07/1991  
 Determined By: State  
 Responsible Agency: Not reported  
 RTC Date: 02/25/1991  
 Enforcement Sequence: 002  
 Effective End Date: 11/18/1983  
 Enforcement Type: Notice of Violation  
 Lead Agency: State  
 Sequence: 2  
 AI ID: 13500  
 Activity ID: NON19990001  
 Public Flag: Y  
 Latitude: 46.837441  
 Longitude: -92.2060893  
 Coord Collect Meth Desc: Address Matching House Number  
 Mailing Address1: 4505 Taylor Cir  
 Mailing City Name: Duluth  
 Mailing State Code: MN  
 Mailing Zip Code: Not reported  
 Responsible Party: Plating Specialties Inc (Duluth, MN)  
 Zero Date: 11/18/1983  
 Case Closed: Not reported  
 Case Lead: Not reported  
 Attorney Assigned: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**S109686140**

Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

Name: PLATING SPECIALTIES INC  
Address: 4505 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: MND099789802  
Violation: 262.A - Generators - General  
Determined Date: 01/07/1991  
Determined By: State  
Responsible Agency: Not reported  
RTC Date: 02/25/1991  
Enforcement Sequence: 002  
Effective End Date: 01/23/1991  
Enforcement Type: Letter of Warning  
Lead Agency: State  
Sequence: 2  
AI ID: 13500  
Activity ID: NON19990002  
Public Flag: Y  
Latitude: 46.837441  
Longitude: -92.2060893  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4505 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Plating Specialties Inc (Duluth, MN)  
Zero Date: 01/23/1991  
Case Closed: Not reported  
Case Lead: Not reported  
Attorney Assigned: Not reported  
Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**S109686140**

Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

WIMN:

Name: PLATING SPECIALTIES INC  
Address: 4505 TAYLOR CIR  
Address Description: 4505 Taylor Cir  
City,State,Zip: DULUTH, MN 55811-1548  
Status: N  
Latitude: 46.837440999999998  
Longitude: -92.206089300000002  
Item ID: 13500-AISI0000013500  
AI ID: 13500  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 13500  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Hazardous Waste  
Program List: HW  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: A1  
Method Description: Address Matching House Number  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 09/27/2015  
Timestamp of Creation: 07/26/1999  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 04/26/2016  
User Name of Last Update: spatial\_  
Status Date: 07/27/1999  
The Delta Spatial ID: 18670  
Activity: Hazardous Waste  
Activity List: Hazardous Waste

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**PLATING SPECIALTIES INC (Continued)**

**S109686140**

MPCA ID: MND099789802  
MPCA List: MND099789802  
Program List: Hazardous Waste  
Classification: Electroplating, Plating, Polishing, Anodizing, and Coloring  
Site URL: https://webapp.pca.state.mn.us/wimn/site/13500

WIMN Detail as of Aug 2016:

Legislative District: 3B  
Latitude: 46.83755485  
Longitude: -92.20585094  
Activity: Hazardous Waste, Small to Minimal QG  
MPCA ID: MND099789802  
Major Watershed: St. Louis River  
Coordinate Collection Method: Address Matching House Number  
Status: Inactive

**G40**  
**South**  
**1/8-1/4**  
**0.179 mi.**  
**944 ft.**

**US AFB DULUTH INTL AIRPORT**  
**STEBNER RD**  
**DULUTH INTL AIRPORT, MN 55814**

**SEMS 1000145881**  
**RCRA NonGen / NLR MN7570024284**  
**DOCKET HWC**  
**NY MANIFEST**

**Site 1 of 2 in cluster G**

**Relative:**  
**Lower**  
**Actual:**  
**1418 ft.**

SEMS:  
Site ID: 0504011  
EPA ID: MN7570024284  
Name: US AFB DULUTH INTL AIRPORT  
Address: STEBNER RD  
Address 2: Not reported  
City,State,Zip: DULUTH INTL AIRPORT, MN 55814  
Cong District: 08  
FIPS Code: Not reported  
Latitude: +46.849167  
Longitude: -092.188056  
FF: Y  
NPL: Not on the NPL  
Non NPL Status: Fed Fac ESI Review Start Needed

SEMS Detail:

Region: 05  
Site ID: 0504011  
EPA ID: MN7570024284  
Site Name: US AFB DULUTH INTL AIRPORT  
NPL: N  
FF: Y  
OU: 00  
Action Code: DS  
Action Name: DISCVRY  
SEQ: 1  
Start Date: 1980-08-01 04:00:00  
Finish Date: 1980-08-01 04:00:00  
Qual: Not reported  
Current Action Lead: EPA Perf

Region: 05  
Site ID: 0504011  
EPA ID: MN7570024284  
Site Name: US AFB DULUTH INTL AIRPORT  
NPL: N

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**US AFB DULUTH INTL AIRPORT (Continued)**

**1000145881**

FF: Y  
 OU: 00  
 Action Code: TY  
 Action Name: FF SI REV  
 SEQ: 1  
 Start Date: Not reported  
 Finish Date: 2003-01-28 05:00:00  
 Qual: L  
 Current Action Lead: EPA Perf

Region: 05  
 Site ID: 0504011  
 EPA ID: MN7570024284  
 Site Name: US AFB DULUTH INTL AIRPORT  
 NPL: N  
 FF: Y  
 OU: 00  
 Action Code: PA  
 Action Name: PA  
 SEQ: 1  
 Start Date: Not reported  
 Finish Date: 1984-08-01 05:00:00  
 Qual: L  
 Current Action Lead: Fed Fac

**RCRA Listings:**

Date Form Received by Agency:		19850101
Handler Name:	DULUTH INTERNATIONAL AIRPORT USAF	
Handler Address:		DULUTH INTERNATIONAL AIRPORT
Handler City,State,Zip:		DULLUTH, MN 55811
EPA ID:		MN7570024284
Contact Name:		Not reported
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		Not reported
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		Not reported
Mailing City,State,Zip:		Not reported
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Not reported	
Operator Type:		Not reported
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**US AFB DULUTH INTL AIRPORT (Continued)**

**1000145881**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20070405
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Historic Generators:

Receive Date: 19850101  
 Handler Name: DULUTH INTERNATIONAL AIRPORT USAF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**US AFB DULUTH INTL AIRPORT (Continued)**

**1000145881**

Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found
--------------	----------------------

Facility Has Received Notices of Violations:

Violations:	No Violations Found
-------------	---------------------

Evaluation Action Summary:

Evaluations:	No Evaluations Found
--------------	----------------------

DOCKET HWC:

Agency:	AIR FORCE
Facility ID:	MN7570024284
Name:	US AFB DULUTH INTL AIRPORT
Address:	STEBNER RD
City,State,Zip:	DULUTH INTL AIRPORT, MN 55814
Reporting Mechanism:	RCRA 3005
Status:	On MDL
Added Date:	11/16/1988

NY MANIFEST:

Name:	UNITED STATES MILITARY-DPDO-JACK LAMAY
Address:	DULUTH INTERNATIONAL AIRPORT
City,State,Zip:	DULLUTH, MN 55811
Country:	USA
EPA ID:	MN7570024284
Facility Status:	Not reported
Location Address 1:	DULUTH INTERNATIONAL AIRPORT
Code:	BP
Location Address 2:	Not reported
Total Tanks:	Not reported
Location City:	DULUTH
Location State:	MN
Location Zip:	55806
Location Zip 4:	Not reported

NY MANIFEST:

EPAID:	MN7570024284
Mailing Name:	UNITED STATES MILITARY-DPDO-JACK LAMAY
Mailing Contact:	UNITED STATES MILITARY-DPDO-JACK LAMAY
Mailing Address 1:	DULUTH INTERNATIONAL AIRPORT
Mailing Address 2:	Not reported
Mailing City:	DULUTH
Mailing State:	MN

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**US AFB DULUTH INTL AIRPORT (Continued)**

**1000145881**

Mailing Zip: 55806  
 Mailing Zip 4: Not reported  
 Mailing Country: USA  
 Mailing Phone: 2187237441

**F41**  
**West**  
**1/8-1/4**  
**0.181 mi.**  
**956 ft.**

**NAVY OPERATIONAL SUPPORT CENTER**  
**5019 AIRPORT RD**  
**DULUTH, MN 55811**

**RCRA NonGen / NLR**

**1010321903**  
**MNS000121459**

**Site 5 of 6 in cluster F**

**Relative:**  
**Lower**  
**Actual:**  
**1410 ft.**

RCRA Listings:  
 Date Form Received by Agency: 20061018  
 Handler Name: NAVY OPERATIONAL SUPPORT CENTER  
 Handler Address: 5019 AIRPORT RD  
 Handler City,State,Zip: DULUTH, MN 55811  
 EPA ID: MNS000121459  
 Contact Name: FELIPE GARCIA  
 Contact Address: 5019 AIRPORT RD  
 Contact City,State,Zip: DULUTH, MN 55811  
 Contact Telephone: 218-722-3454  
 Contact Fax: Not reported  
 Contact Email: Not reported  
 Contact Title: Not reported  
 EPA Region: 05  
 Land Type: Private  
 Federal Waste Generator Description: Not a generator, verified  
 Non-Notifier: Not reported  
 Biennial Report Cycle: Not reported  
 Accessibility: Not reported  
 Active Site Indicator: Not reported  
 State District Owner: Not reported  
 State District: Not reported  
 Mailing Address: 5019 AIRPORT RD  
 Mailing City,State,Zip: DULUTH, MN 55811  
 Owner Name: NAVY OPERATIONAL SUPPORT CENTER  
 Owner Type: Private  
 Operator Name: Not reported  
 Operator Type: Not reported  
 Short-Term Generator Activity: No  
 Importer Activity: No  
 Mixed Waste Generator: No  
 Transporter Activity: No  
 Transfer Facility Activity: No  
 Recycler Activity with Storage: No  
 Small Quantity On-Site Burner Exemption: No  
 Smelting Melting and Refining Furnace Exemption: No  
 Underground Injection Control: No  
 Off-Site Waste Receipt: No  
 Universal Waste Indicator: No  
 Universal Waste Destination Facility: No  
 Federal Universal Waste: No  
 Active Site Fed-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site Converter Treatment storage and Disposal Facility: Not reported  
 Active Site State-Reg Treatment Storage and Disposal Facility: Not reported  
 Active Site State-Reg Handler: ---  
 Federal Facility Indicator: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NAVY OPERATIONAL SUPPORT CENTER (Continued)**

**1010321903**

Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20070620
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NAVY OPERATIONAL SUPPORT CENTER
Legal Status:	Private
Date Became Current:	20061018
Date Ended Current:	Not reported
Owner/Operator Address:	5019 AIRPORT RD
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	218-722-3454
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20061018
Handler Name:	NAVY OPERATIONAL SUPPORT CENTER
Federal Waste Generator Description:	Not a generator, verified

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NAVY OPERATIONAL SUPPORT CENTER (Continued)**

**1010321903**

State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
List of NAICS Codes and Descriptions:	
NAICS Codes:	No NAICS Codes Found
Facility Has Received Notices of Violations:	
Violations:	No Violations Found
Evaluation Action Summary:	
Evaluations:	No Evaluations Found

**F42**  
**West**  
**1/8-1/4**  
**0.181 mi.**  
**956 ft.**

**NAVY OPERATIONAL SUPPORT CENTER**  
**5019 AIRPORT RD**  
**DULUTH, MN 55811**  
**Site 6 of 6 in cluster F**

**MN WIMN S110437342**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1410 ft.**

WIMN:	
Name:	NAVY OPERATIONAL SUPPORT CENTER
Address:	5019 AIRPORT RD
Address Description:	5019 Airport Rd
City,State,Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.837385400000002
Longitude:	-92.206529000000003
Item ID:	108075-AISI0000108075
AI ID:	108075
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	108075
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NAVY OPERATIONAL SUPPORT CENTER (Continued)**

**S110437342**

MDH Drinking Water Management Code: Not reported  
 MDH Drinking Water Management Name: Not reported  
 Location Description: Not reported  
 Township, Range, Direction, Section QQ: Not reported  
 PLS Township: Not reported  
 Range: Not reported  
 Range Direction: Not reported  
 Section: Not reported  
 Quarters: Not reported  
 Collection Method Code: A1  
 Method Description: Address Matching House Number  
 Ref Code: GEN  
 Ref Description: General Location  
 Location Verified Flag: N  
 Collection Date: 09/27/2015  
 Timestamp of Creation: 10/18/2006  
 User Name of Creator: DELTA\_M\_R1  
 Timestamp of Last Update: 04/26/2016  
 User Name of Last Update: spatial\_  
 Status Date: Not reported  
 The Delta Spatial ID: 51530385  
 Activity: Hazardous Waste  
 Activity List: Hazardous Waste  
 MPCA ID: MNS000121459  
 MPCA List: MNS000121459  
 Program List: Hazardous Waste  
 Classification: Not reported  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/108075>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
 Latitude: 46.83738549  
 Longitude: -92.20652900  
 Activity: Hazardous Waste, Small to Minimal QG  
 MPCA ID: MNS000121459  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Address Matching House Number  
 Status: Active

**H43**  
**WNW**  
**1/8-1/4**  
**0.181 mi.**  
**957 ft.**

**CIRRUS DESIGN CORP/ DULUTH PROJ 8976SA96**  
**4515 TAYLOR CIR**  
**DULUTH, MN 55811**

**MN NPDES S110186275**  
**MN WIMN N/A**

**Site 1 of 5 in cluster H**

**Relative:**  
**Lower**  
**Actual:**  
**1414 ft.**

NPDES:  
 Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
 Address: 4515 TAYLOR CIR  
 City,State,Zip: DULUTH, MN 55811  
 Active: Inactive  
 Activity ID: MNR0536HW  
 Preferred ID: Not reported  
 Activity Sys ID: 37928  
 Activity Type: Not reported  
 Activity Type Code: Not reported  
 Effective Start Date: 02/10/2011  
 End Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP/ DULUTH PROJ 8976SA96 (Continued)**

**S110186275**

Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.8376455  
Longitude Degree: -92.206089  
Location Description: Not reported  
New Imp Area: Not reported  
Old Imp Area: Not reported  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Cirrus Aircraft  
Owner Organization Type: Not reported  
Permit Sys ID: 101687  
Project Name: Not reported  
Project Size: Not reported  
Termination Date: Not reported  
Acres: 17  
Activity Description: Manufacturing and assembly of general aircraft, light general maintenance and repair of aircraft, along with re-fueling and minor deicing of aircraft  
  
No Exposure: No  
One Mile: Yes  
Permit Type: Industrial Stormwater Permit  
Sector List: AB, S  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported  
  
Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN 55811  
Active: Active  
Activity ID: MNR053CLL  
Preferred ID: Not reported  
Activity Sys ID: 37928  
Activity Type: Not reported  
Activity Type Code: Not reported  
Effective Start Date: 10/07/2020  
End Date: Not reported  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.838328  
Longitude Degree: -92.203634  
Location Description: Not reported  
New Imp Area: Not reported  
Old Imp Area: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP/ DULUTH PROJ 8976SA96 (Continued)**

**S110186275**

Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Cirrus Aircraft  
Owner Organization Type: Not reported  
Permit Sys ID: 4227495  
Project Name: Not reported  
Project Size: Not reported  
Termination Date: Not reported  
Acres: 17  
Activity Description: Manufacturing and assembly of general aircraft; light general maintenance and repair of aircraft, along with re-fueling and minor deicing of aircraft.

No Exposure: No  
One Mile: Yes  
Permit Type: Industrial Stormwater Permit  
Sector List: AB, S  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

Name: CIRRUS DESIGN CORP/ DULUTH PROJ 8976SA96  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN 55811  
Active: N  
Activity ID: C00004085  
Preferred ID: Not reported  
Activity Sys ID: 28054085  
Activity Type: Coverage Termination  
Activity Type Code: 56  
Effective Start Date: 11/01/1996  
End Date: 07/01/1997  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.8376454  
Longitude Degree: -92.2061144  
Location Description: CSL: Site along road used for address match  
New Imp Area: Not reported  
Old Imp Area: Not reported  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Dale Klapmeier  
Owner Organization Type: Non-Tempo User/Citizen/Public  
Permit Sys ID: 56927  
Project Name: Cirrus Design Corp/ Duluth Proj 8976SA96  
Project Size: 5.5



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP/ DULUTH PROJ 8976SA96 (Continued)**

**S110186275**

Termination Date: 09/25/2006  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: KGM Contractors Inc

**WIMN:**

Name: CIRRUS DESIGN CORP/ DULUTH PROJ 8976SA96  
Address: 4515 TAYLOR CIR  
Address Description: 4515 Taylor Cir  
City,State,Zip: DULUTH, MN 55811  
Status: N  
Latitude: 46.8376454  
Longitude: -92.206114400000004  
Item ID: 2805-AISI0000002805  
AI ID: 2805  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 2805  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Stormwater  
Program List: ST  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: CSLL: Site along road used for address match  
Township, Range, Direction, Section QQ: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP/ DULUTH PROJ 8976SA96 (Continued)**

**S110186275**

PLS Township: Not reported  
 Range: Not reported  
 Range Direction: Not reported  
 Section: Not reported  
 Quarters: Not reported  
 Collection Method Code: A1  
 Method Description: Address Matching House Number  
 Ref Code: GEN  
 Ref Description: General Location  
 Location Verified Flag: Y  
 Collection Date: 04/25/2016  
 Timestamp of Creation: 02/09/1999  
 User Name of Creator: DELTA\_M\_R1  
 Timestamp of Last Update: 04/26/2016  
 User Name of Last Update: spatial\_  
 Status Date: 09/25/2006  
 The Delta Spatial ID: 7251  
 Activity: Construction Stormwater  
 Activity List: Construction Stormwater  
 MPCA ID: C00004085  
 MPCA List: C00004085  
 Program List: Stormwater  
 Classification: Not reported  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/2805>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
 Latitude: 46.83764450  
 Longitude: -92.20585094  
 Activity: Construction Stormwater Permit  
 MPCA ID: C00004085  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Address Matching House Number  
 Status: Inactive

**H44**  
**WNW**  
**1/8-1/4**  
**0.181 mi.**  
**957 ft.**

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT**  
**4515 TAYLOR CIR**  
**HERMANTOWN, MN 55811**  
**Site 2 of 5 in cluster H**

**MN MANIFEST** **S119127324**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1414 ft.**

**MANIFEST:**  
 Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
 Address: 4515 TAYLOR CIR  
 City,State,Zip: HERMANTOWN, MN 55811-1548  
 Manifest ID: 918500  
 Generator ID: MN0000275115  
 Generator AI ID: 37928  
 Transporter 1 ID: MND006213664  
 Transporter 1 AI ID: 4124  
 Transporter 1 AI Name: Brenntag Great Lakes LLC  
 Transporter 1 Address: 2130 Energy Park Dr  
 Transporter 1 City: Saint Paul  
 Transporter 1 State: MN  
 Transporter 1 ZIP: 55108-1506  
 Transporter 2 ID: Not reported  
 Transporter 2 AI ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 2/11/2013 0:00:00  
Fac Copy Recd Date: Not reported  
Gen Ship Date: 2013-01-31 00:00:00  
Trans 1 Recd Date: 2013-01-31 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: Not reported  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 918500  
Manifest Row: 1  
Haz Material Name: ISOPROPANOL  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Container Qty: 1  
Container Code: DMPF  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: D001

Manifest ID: 918500  
Manifest Row: 2  
Haz Material Name: PAINT RELATED  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 7  
Container Code: DMML  
Waste Qty: 385  
Waste Units Code: AD  
Waste Code List: D001,D035,F003,F005

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 943320  
Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MND006213664  
Transporter 1 AI ID: 4124  
Transporter 1 AI Name: Brenntag Great Lakes LLC  
Transporter 1 Address: 2130 Energy Park Dr  
Transporter 1 City: Saint Paul  
Transporter 1 State: MN  
Transporter 1 ZIP: 55108-1506  
Transporter 2 ID: MND006213664  
Transporter 2 AI ID: 4124  
Transporter 2 AI Name: Brenntag Great Lakes LLC  
Transporter 2 Address: 2130 Energy Park Dr  
Transporter 2 City: Saint Paul  
Transporter 2 State: MN  
Transporter 2 ZIP: 55108-1506  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2014-06-23 00:00:00  
Gen Ship Date: 2014-06-05 00:00:00  
Trans 1 Recd Date: 2014-06-05 00:00:00  
Trans 2 Recd Date: 6/6/2014 0:00:00  
Tsd Recd Date: 2014-06-06 00:00:00  
Comments: Not reported

Contact:  
Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 943320  
Manifest Row: 1  
Haz Material Name: ISOPROPANOL  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: D001

Manifest ID: 943320  
Manifest Row: 2  
Haz Material Name: PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 7  
Container Code: DMML  
Waste Qty: 385  
Waste Units Code: AD  
Waste Code List: D001,D035,F003,F005

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 749420

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MNT280011586  
Transporter 1 AI ID: 4286  
Transporter 1 AI Name: OSI Environmental Inc - Eveleth  
Transporter 1 Address: 14 County Highway 101  
Transporter 1 City: Eveleth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55734  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: TND980847024  
TSD AI ID: 59930  
TSD AI Name: Excel TSD Inc  
TSD Address: 552 Rivergate Rd  
TSD City: Memphis  
TSD State: TN  
TSD Zip: 38109  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2003-02-24 00:00:00  
Gen Ship Date: 2003-01-29 00:00:00  
Trans 1 Recd Date: 2003-01-29 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2003-02-14 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 749420  
Manifest Row: 1  
Haz Material Name: CHROMIC ACID  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: D002,D007

Manifest ID: 749420  
Manifest Row: 2  
Haz Material Name: PAINT  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 11  
Container Code: DMML  
Waste Qty: 605  
Waste Units Code: AD  
Waste Code List: D001,D005,D007,D008,D035,F003,F005

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 881696  
Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MND006213664  
Transporter 1 AI ID: 4124  
Transporter 1 AI Name: Brenntag Great Lakes LLC  
Transporter 1 Address: 2130 Energy Park Dr  
Transporter 1 City: Saint Paul  
Transporter 1 State: MN  
Transporter 1 ZIP: 55108-1506  
Transporter 2 ID: MND006213664  
Transporter 2 AI ID: 4124  
Transporter 2 AI Name: Brenntag Great Lakes LLC  
Transporter 2 Address: 2130 Energy Park Dr  
Transporter 2 City: Saint Paul  
Transporter 2 State: MN  
Transporter 2 ZIP: 55108-1506  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 2009-09-03 00:00:00  
Gen Ship Date: 2009-08-19 00:00:00  
Trans 1 Recd Date: 2009-08-19 00:00:00  
Trans 2 Recd Date: 8/21/2009 0:00:00  
Tsd Recd Date: 2009-08-21 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 881696  
Manifest Row: 1  
Haz Material Name: FLAM LIQ (ISOPROPANOL)  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 2  
Container Code: BXPf  
Waste Qty: 110  
Waste Units Code: AD  
Waste Code List: D001

Manifest ID: 881696  
Manifest Row: 2  
Haz Material Name: PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Container Qty: 3  
Container Code: DMML  
Waste Qty: 165  
Waste Units Code: AD  
Waste Code List: D001,D035,F003,F005

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 895037  
Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MND006213664  
Transporter 1 AI ID: 4124  
Transporter 1 AI Name: Brenntag Great Lakes LLC  
Transporter 1 Address: 2130 Energy Park Dr  
Transporter 1 City: Saint Paul  
Transporter 1 State: MN  
Transporter 1 ZIP: 55108-1506  
Transporter 2 ID: MND006213664  
Transporter 2 AI ID: 4124  
Transporter 2 AI Name: Brenntag Great Lakes LLC  
Transporter 2 Address: 2130 Energy Park Dr  
Transporter 2 City: Saint Paul  
Transporter 2 State: MN  
Transporter 2 ZIP: 55108-1506  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 10/31/2011 0:00:00  
Fac Copy Recd Date: 2011-11-15 00:00:00  
Gen Ship Date: 2011-10-27 00:00:00  
Trans 1 Recd Date: 2011-10-27 00:00:00  
Trans 2 Recd Date: 10/28/2011 0:00:00  
Tsd Recd Date: 2011-10-28 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 895037  
Manifest Row: 1  
Haz Material Name: RQ FLAM LIQ (ISPRNL)  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 4  
Container Code: BXPF  
Waste Qty: 270  
Waste Units Code: AD  
Waste Code List: D001

Manifest ID: 895037  
Manifest Row: 2  
Haz Material Name: RQ PNT REL MAT  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 4  
Container Code: DMML  
Waste Qty: 220  
Waste Units Code: AD  
Waste Code List: D001,D035,F003,F005

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 935572  
Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MND006213664  
Transporter 1 AI ID: 4124  
Transporter 1 AI Name: Brenntag Great Lakes LLC  
Transporter 1 Address: 2130 Energy Park Dr  
Transporter 1 City: Saint Paul  
Transporter 1 State: MN  
Transporter 1 ZIP: 55108-1506  
Transporter 2 ID: MND006213664  
Transporter 2 AI ID: 4124  
Transporter 2 AI Name: Brenntag Great Lakes LLC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Transporter 2 Address: 2130 Energy Park Dr  
Transporter 2 City: Saint Paul  
Transporter 2 State: MN  
Transporter 2 ZIP: 55108-1506  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 3/31/2014 0:00:00  
Fac Copy Recd Date: 2014-04-16 00:00:00  
Gen Ship Date: 2014-03-26 00:00:00  
Trans 1 Recd Date: 2014-03-26 00:00:00  
Trans 2 Recd Date: 3/28/2014 0:00:00  
Tsd Recd Date: 2014-03-28 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 935572  
Manifest Row: 1  
Haz Material Name: SULFURIC ACID  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Container Code: DMPF  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: D002

Manifest ID: 935572  
Manifest Row: 2  
Haz Material Name: ISOPROPANO9L  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: D001

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 908624  
Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MND006213664  
Transporter 1 AI ID: 4124  
Transporter 1 AI Name: Brenntag Great Lakes LLC  
Transporter 1 Address: 2130 Energy Park Dr  
Transporter 1 City: Saint Paul  
Transporter 1 State: MN  
Transporter 1 ZIP: 55108-1506  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 7/27/2012 0:00:00  
Fac Copy Recd Date: 2012-08-06 00:00:00  
Gen Ship Date: 2012-07-19 00:00:00  
Trans 1 Recd Date: 2012-07-19 00:00:00  
Trans 2 Recd Date: 7/20/2012 0:00:00  
Tsd Recd Date: 2012-07-20 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 908624  
Manifest Row: 1  
Haz Material Name: RQ FLAM LIQ (ISOPRNL)  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 3  
Container Code: DMPF  
Waste Qty: 165  
Waste Units Code: AD  
Waste Code List: D001

Manifest ID: 908624  
Manifest Row: 2  
Haz Material Name: RQ PNT REL MAT  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 4  
Container Code: DMML  
Waste Qty: 220  
Waste Units Code: AD  
Waste Code List: D001,D035,F003,F005

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 798894  
Generator ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Generator AI ID: 37928  
Transporter 1 ID: MNT280011586  
Transporter 1 AI ID: 4286  
Transporter 1 AI Name: OSI Environmental Inc - Eveleth  
Transporter 1 Address: 14 County Highway 101  
Transporter 1 City: Eveleth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55734  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: TND980847024  
TSD AI ID: 59930  
TSD AI Name: Excel TSD Inc  
TSD Address: 552 Rivergate Rd  
TSD City: Memphis  
TSD State: TN  
TSD Zip: 38109  
Gen Copy Recd Date: 12/8/2005 0:00:00  
Fac Copy Recd Date: 2005-12-27 00:00:00  
Gen Ship Date: 2005-12-01 00:00:00  
Trans 1 Recd Date: 2005-12-01 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2005-12-15 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 798894  
Manifest Row: 1  
Haz Material Name: HYDROCHLORIC ACID  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: D002

Manifest ID: 798894  
Manifest Row: 2  
Haz Material Name: AMMONIA SOLUTIONS  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 15  
Waste Units Code: AD  
Waste Code List: D002

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 903737  
Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MND006213664  
Transporter 1 AI ID: 4124  
Transporter 1 AI Name: Brenntag Great Lakes LLC  
Transporter 1 Address: 2130 Energy Park Dr  
Transporter 1 City: Saint Paul  
Transporter 1 State: MN  
Transporter 1 ZIP: 55108-1506  
Transporter 2 ID: MND006213664  
Transporter 2 AI ID: 4124  
Transporter 2 AI Name: Brenntag Great Lakes LLC  
Transporter 2 Address: 2130 Energy Park Dr  
Transporter 2 City: Saint Paul  
Transporter 2 State: MN  
Transporter 2 ZIP: 55108-1506  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 12/27/2011 0:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Fac Copy Recd Date: 2012-01-11 00:00:00  
Gen Ship Date: 2011-12-21 00:00:00  
Trans 1 Recd Date: 2011-12-21 00:00:00  
Trans 2 Recd Date: 12/27/2011 0:00:00  
Tsd Recd Date: 2011-12-27 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 903737  
Manifest Row: 1  
Haz Material Name: RO FLAM LIQ (ISOPRNL)  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMPF  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: D001

Manifest ID: 903737  
Manifest Row: 2  
Haz Material Name: RQ PNT REL MAT  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 4



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Container Code: DMML  
Waste Qty: 220  
Waste Units Code: AD  
Waste Code List: D001,D035,F003,F005

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 903917  
Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MND006213664  
Transporter 1 AI ID: 4124  
Transporter 1 AI Name: Brenntag Great Lakes LLC  
Transporter 1 Address: 2130 Energy Park Dr  
Transporter 1 City: Saint Paul  
Transporter 1 State: MN  
Transporter 1 ZIP: 55108-1506  
Transporter 2 ID: MND006213664  
Transporter 2 AI ID: 4124  
Transporter 2 AI Name: Brenntag Great Lakes LLC  
Transporter 2 Address: 2130 Energy Park Dr  
Transporter 2 City: Saint Paul  
Transporter 2 State: MN  
Transporter 2 ZIP: 55108-1506  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 7/11/2011 0:00:00  
Fac Copy Recd Date: 2011-08-01 00:00:00  
Gen Ship Date: 2011-07-07 00:00:00  
Trans 1 Recd Date: 2011-07-07 00:00:00  
Trans 2 Recd Date: 7/15/2011 0:00:00  
Tsd Recd Date: 2011-07-15 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 903917  
Manifest Row: 1  
Haz Material Name: PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 4  
Container Code: DMML  
Waste Qty: 220  
Waste Units Code: AD  
Waste Code List: D001,D035,F003,F005

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
Manifest ID: 809927  
Generator ID: MN0000275115  
Generator AI ID: 37928  
Transporter 1 ID: MND006213664  
Transporter 1 AI ID: 4124  
Transporter 1 AI Name: Brenntag Great Lakes LLC  
Transporter 1 Address: 2130 Energy Park Dr  
Transporter 1 City: Saint Paul  
Transporter 1 State: MN  
Transporter 1 ZIP: 55108-1506  
Transporter 2 ID: WIR000123984  
Transporter 2 AI ID: 97377  
Transporter 2 AI Name: Wilinski Enterprises Inc - Menomonee Fls  
Transporter 2 Address: N59 W14418 Bobolink Ave  
Transporter 2 City: Menomonee Falls  
Transporter 2 State: WI  
Transporter 2 ZIP: 53051  
TSD ID: WID023350192  
TSD AI ID: 40237  
TSD AI Name: Brenntag Great Lakes LLC  
TSD Address: N59 W14706 Bobolink Ave  
TSD City: Menomonee Falls  
TSD State: WI  
TSD Zip: 53051  
Gen Copy Recd Date: 6/2/2006 0:00:00  
Fac Copy Recd Date: 2006-06-16 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S119127324**

Gen Ship Date: 2006-05-31 00:00:00  
Trans 1 Recd Date: 2006-05-31 00:00:00  
Trans 2 Recd Date: 6/1/2006 0:00:00  
Tsd Recd Date: 2006-06-02 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Lindsey Maas  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: lmaas@cirrusaircraft.com  
Contact Phone: 218-788-3131

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
Generator Contact: Melissa Dybvig  
Contact Address: 4515 Taylor Cir  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: mdybvig@cirrusaircraft.com  
Contact Phone: 218-788-3036

NAIC:

Generator AI ID: 37928  
Generator ID: MN0000275115  
Generator AI Name: Cirrus Design Corp aka Cirrus Aircraft  
NAIC Code: 336411  
NAIC Desc: 336411 - Aircraft Manufacturing

Detail:

Manifest ID: 809927  
Manifest Row: 1  
Haz Material Name: PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: Not reported  
Packing Group Number: Not reported  
Container Qty: 3  
Container Code: DMML  
Waste Qty: 165  
Waste Units Code: AD  
Waste Code List: F005

[Click this hyperlink](#) while viewing on your computer to access 346 additional MN MANIFEST: record(s) in the EDR Site Report.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

H45  
WNW  
1/8-1/4  
0.181 mi.  
957 ft.

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT**  
4515 TAYLOR CIR  
HERMANTOWN, MN 55811

**MN AST** A100529147  
N/A

Site 3 of 5 in cluster H

Relative:  
Lower

AST:

Actual:  
1414 ft.

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: HERMANTOWN, MN 55811-1548  
AI ID: 37928  
Tank Site ID: TS0123098  
Item ID: 37928-EQUI0000000001  
SI Type: Aboveground Storage Tank  
SI Design: 1001  
SI Description: 10,000 gal/Aviation Gas/Active  
Substance: Aviation Gas  
Compartment Number: 1  
Wall Type: Not reported  
Overfill Prevention System: AST None  
Install Date: Not reported  
Status Change Date: 2003-03-31 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 10000  
Longitude: -92.20214646  
Latitude: 46.83759682  
Coord Collection Method: Address Matching House Number  
Owner Name: Cirrus Aircraft  
Owner Address: 4515 Taylor Cir  
Owner City: Hermantown  
Owner State: MN  
Owner Zip: 558111548  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0123098>

AST Prior to 08/2016:

Program Interest ID: 267373  
Facility Addr 2: Not reported  
Address ID: 23250  
MPCA Tank Number: 1001  
Above/Under Ground: 1  
Piping Cathodic Protection: Not reported  
Tank Cathodic Protection: 9  
Substance: 4  
Client Tank Number: 1001  
AST Base Material: 11  
Piping Material: Not reported  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: Not reported  
Tank Status Code: 3  
Tank Capacity: 10000  
Tank Registration Date: 03/31/2003 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**A100529147**

Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 06/27/2003 11:36:17  
Date Last Updated: 08/21/2012 14:27:28  
Staff Id Who Did The Last Update: JHENRY  
In Compliance: Not reported  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 123098

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: NBLASIN  
Program Id: 267373  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Not reported  
TMSP Added: 08/24/2010 10:15:13  
Date Last Updated: 08/24/2010 10:15:13  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 15.52  
Longitude Degree: -92  
Longitude Minute: 12  
Longitude Second: 21.92  
Staff Id Who Did The Last Update: MAPT\_NC  
Program Id: 267373  
Latlong ID: 67304  
Collection Date: 03/16/2010 18:56:32  
LatLong Description: Not reported  
TMSP Added: 02/24/2001 00:00:00  
Date Last Updated: 03/16/2010 21:20:51  
Coord Source Type: 2  
Org Name Source: MPCA

TabSite:

Facility Code: 19  
Staff Id Who Did The Last Update: RSUCHAN  
Program Interest Id: 267373  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: Not reported  
AST Registration Date: 03/31/2003 00:00:00  
Date Added: 06/27/2003 11:34:22  
Date Last Updated: 05/05/2006 06:53:32  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**A100529147**

Vapor Notify Required: 1

Tank A:

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 1001  
Above Or Underground: 1  
Tank Action ID: 880261  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 06/01/2003 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 06/27/2003 11:36:41  
Date Last Updated: 06/27/2003 11:36:41

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: 1001  
Above Or Underground: 1  
Tank Action ID: 880262  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 06/01/2003 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 06/27/2003 11:36:50  
Date Last Updated: 06/27/2003 11:36:50

Tank C:

MPCA Tank Number: 1001  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 4  
Tank Stored Product Desc: Not reported  
Compartment Cap: 10000  
Heating: 1  
Other Desc: Not reported  
Date Added: 06/27/2003 11:36:17  
Date Last Updated: 06/27/2003 11:36:17

**H46**  
**WNW**  
**1/8-1/4**  
**0.181 mi.**  
**957 ft.**

**CIRRUS DESIGN CORPORATION**  
**4515 TAYLOR CIRCLE**  
**DULUTH, MN 55811**  
**Site 4 of 5 in cluster H**

**RCRA-LQG 1000888768**  
**FINDS MN0000275115**  
**ECHO**  
**WI MANIFEST**

**Relative:**  
**Lower**  
**Actual:**  
**1414 ft.**

RCRA Listings:  
Date Form Received by Agency: 20220223  
Handler Name: CIRRUS DESIGN CORPORATION  
Handler Address: 4515 TAYLOR CIRCLE  
Handler City,State,Zip: DULUTH, MN 55811  
EPA ID: MN0000275115  
Contact Name: ALANNA C LEE

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Contact Address:	TAYLOR CIRCLE
Contact City,State,Zip:	DULUTH, MN 55811
Contact Telephone:	218-788-3649
Contact Fax:	Not reported
Contact Email:	ACLEE@CIRRUSAIRCRAFT.COM
Contact Title:	ENVIRONMENTAL SPEC
EPA Region:	05
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2021
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	TAYLOR CIRCLE
Mailing City,State,Zip:	DULUTH, MN 55811
Owner Name:	CIRRUS
Owner Type:	Private
Operator Name:	CIRRUS
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRC Permit Baseline:	Not on the Baseline
2018 GPRC Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRC Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDU Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220601
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years

Year: 2019

[Click Here for Biennial Reporting System Data:](#)

Year: 2017

[Click Here for Biennial Reporting System Data:](#)

Year: 2013

[Click Here for Biennial Reporting System Data:](#)

Year: 2011

[Click Here for Biennial Reporting System Data:](#)

Year: 2009

[Click Here for Biennial Reporting System Data:](#)

Year: 2005

[Click Here for Biennial Reporting System Data:](#)

Year: 2003

[Click Here for Biennial Reporting System Data:](#)

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D006
Waste Description:	CADMIUM



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Waste Code: D007  
Waste Description: CHROMIUM

Waste Code: D008  
Waste Description: LEAD

Waste Code: D009  
Waste Description: MERCURY

Waste Code: D018  
Waste Description: BENZENE

Waste Code: D035  
Waste Description: METHYL ETHYL KETONE

Waste Code: F001  
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005  
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	CIRRUS
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: CIRRUS	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: CIRRUS	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: CIRRUS	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: CIRRUS	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: CIRRUS DESIGN CORP	
Legal Status:	Private
Date Became Current:	19990729
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIR
Owner/Operator City,State,Zip:	DULUTH, MN 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Owner/Operator Telephone:	218-788-3191
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CIRRUS
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CIRRUS
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	CIRRUS
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	CIRRUS
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	JASON BARSNESS
Legal Status:	Private
Date Became Current:	19940101

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Date Ended Current:	Not reported
Owner/Operator Address:	4515 TRYLOR CICLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: CIRRUS	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: CIRRUS	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: CIRRUS	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: CIRRUS	
Legal Status:	Private
Date Became Current:	19940101
Date Ended Current:	Not reported
Owner/Operator Address:	4515 TAYLOR CIRCLE
Owner/Operator City,State,Zip:	DULUTH, MN 55811
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Owner/Operator Name: CIRRUS  
Legal Status: Private  
Date Became Current: 19940101  
Date Ended Current: Not reported  
Owner/Operator Address: 4515 TAYLOR CIRCLE  
Owner/Operator City,State,Zip: DULUTH, MN 55811  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: JASON BARSNESS  
Legal Status: Private  
Date Became Current: 19940101  
Date Ended Current: Not reported  
Owner/Operator Address: 4515 TRYLOR CICLE  
Owner/Operator City,State,Zip: DULUTH, MN 55811  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: CIRRUS  
Legal Status: Private  
Date Became Current: 19940101  
Date Ended Current: Not reported  
Owner/Operator Address: 4515 TAYLOR CIRCLE  
Owner/Operator City,State,Zip: DULUTH, MN 55811  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: CIRRUS  
Legal Status: Private  
Date Became Current: 19940101  
Date Ended Current: Not reported  
Owner/Operator Address: 4515 TAYLOR CIRCLE  
Owner/Operator City,State,Zip: DULUTH, MN 55811  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: CIRRUS  
Legal Status: Private  
Date Became Current: 19940101  
Date Ended Current: Not reported  
Owner/Operator Address: 4515 TAYLOR CIRCLE  
Owner/Operator City,State,Zip: DULUTH, MN 55811  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Owner/Operator Email: Not reported  
Owner/Operator Indicator: Operator  
Owner/Operator Name: CIRRUS  
Legal Status: Private  
Date Became Current: 19940101  
Date Ended Current: Not reported  
Owner/Operator Address: 4515 TAYLOR CIRCLE  
Owner/Operator City,State,Zip: DULUTH, MN 55811  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Historic Generators:

Receive Date: 20060126  
Handler Name: CIRRUS DESIGN CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20100215  
Handler Name: CIRRUS DESIGN CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20120215  
Handler Name: CIRRUS DESIGN CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20140226  
Handler Name: CIRRUS DESIGN CORPORATION  
Federal Waste Generator Description: Large Quantity Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

Receive Date: 20180215  
Handler Name: CIRRUS DESIGN CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20200923  
Handler Name: CIRRUS DESIGN CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20220223  
Handler Name: CIRRUS DESIGN CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: No  
Electronic Manifest Broker: No

Receive Date: 20100819  
Handler Name: CIRRUS DESIGN CORPORATION  
Federal Waste Generator Description: Large Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19940506
Handler Name:	CIRRUS DESIGN CORP
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20130416
Handler Name:	CIRRUS DESIGN CORPORATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20040602
Handler Name:	CIRRUS DESIGN CORPORATION
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	336411
NAICS Description:	AIRCRAFT MANUFACTURING

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State



Map ID  
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MAP FINDINGS

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20130416
Actual Return to Compliance Date:	20130904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	20130716
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

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EDR ID Number  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170831
Actual Return to Compliance Date:	20180330
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20180110
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	RDS
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

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Database(s)

EDR ID Number  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19980611
Actual Return to Compliance Date:	19980723
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date: 19980820  
Enforcement Identifier: 001  
Date of Enforcement Action: 19980820  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: Letter of Warning (LOW)  
Enforcement Responsible Person: MNHAK  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: Not reported  
Paid Amount: Not reported  
Final Count: Not reported  
Final Amount: Not reported

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 20040309  
Actual Return to Compliance Date: 20040419  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 003  
Date of Enforcement Action: 20040309  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: Letter of Warning (LOW)  
Enforcement Responsible Person: MNJRH  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170831
Actual Return to Compliance Date:	20180330
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20180110
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	RDS
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State



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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011030
Actual Return to Compliance Date:	20020107
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	20011119
Enforcement Identifier:	002
Date of Enforcement Action:	20011119
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE ADMN PENALTY ORDER(APO)
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20130416
Actual Return to Compliance Date:	20130904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	20130716
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20170831
Actual Return to Compliance Date:	20180330
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA

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EDR ID Number  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20180110
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	RDS
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Universal Waste - Small Quantity Handlers
Date Violation was Determined:	20170831
Actual Return to Compliance Date:	20180330
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20180110
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	RDS
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State



Map ID  
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MAP FINDINGS

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Manifest
Date Violation was Determined:	20011030
Actual Return to Compliance Date:	20020107
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	20011119
Enforcement Identifier:	002
Date of Enforcement Action:	20011119
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE ADMN PENALTY ORDER(APO)
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20130416
Actual Return to Compliance Date:	20130904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	20130716
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

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EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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MAP FINDINGS

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EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20130416
Actual Return to Compliance Date:	20130904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

Map ID  
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EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	20130716
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20011030
Actual Return to Compliance Date:	20020107
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	20011119
Enforcement Identifier:	002
Date of Enforcement Action:	20011119
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE ADMN PENALTY ORDER(APO)
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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MAP FINDINGS

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EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount: Not reported  
 SEP Scheduled Completion Date: Not reported  
 SEP Actual Date: Not reported  
 SEP Defaulted Date: Not reported  
 SEP Type: Not reported  
 SEP Type Description: Not reported  
 Proposed Amount: Not reported  
 Final Monetary Amount: Not reported  
 Paid Amount: Not reported  
 Final Count: Not reported  
 Final Amount: Not reported

Found Violation: No  
 Agency Which Determined Violation: Not reported  
 Violation Short Description: Not reported  
 Date Violation was Determined: Not reported  
 Actual Return to Compliance Date: Not reported  
 Return to Compliance Qualifier: Not reported  
 Violation Responsible Agency: Not reported  
 Scheduled Compliance Date: Not reported  
 Enforcement Identifier: Not reported  
 Date of Enforcement Action: Not reported  
 Enforcement Responsible Agency: Not reported  
 Enforcement Docket Number: Not reported  
 Enforcement Attorney: Not reported  
 Corrective Action Component: Not reported  
 Appeal Initiated Date: Not reported  
 Appeal Resolution Date: Not reported  
 Disposition Status Date: Not reported  
 Disposition Status: Not reported  
 Disposition Status Description: Not reported  
 Consent/Final Order Sequence Number: Not reported  
 Consent/Final Order Respondent Name: Not reported  
 Consent/Final Order Lead Agency: Not reported  
 Enforcement Type: Not reported  
 Enforcement Responsible Person: Not reported  
 Enforcement Responsible Sub-Organization: Not reported  
 SEP Sequence Number: Not reported  
 SEP Expenditure Amount: Not reported  
 SEP Scheduled Completion Date: Not reported  
 SEP Actual Date: Not reported  
 SEP Defaulted Date: Not reported  
 SEP Type: Not reported  
 SEP Type Description: Not reported  
 Proposed Amount: Not reported  
 Final Monetary Amount: Not reported  
 Paid Amount: Not reported  
 Final Count: Not reported  
 Final Amount: Not reported

Found Violation: Yes  
 Agency Which Determined Violation: State  
 Violation Short Description: Generators - General  
 Date Violation was Determined: 20100819  
 Actual Return to Compliance Date: 20101112  
 Return to Compliance Qualifier: Documented  
 Violation Responsible Agency: State



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported

SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20040309
Actual Return to Compliance Date:	20040419
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	20040309
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Letter of Warning (LOW)
Enforcement Responsible Person:	MNJRH
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20040309
Actual Return to Compliance Date:	20040419
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	20040309
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Letter of Warning (LOW)
Enforcement Responsible Person:	MNJRH
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20040309
Actual Return to Compliance Date:	20040419
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	20040309
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Letter of Warning (LOW)
Enforcement Responsible Person:	MNJRH
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
 Direction  
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 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State



Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20040309
Actual Return to Compliance Date:	20040419
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	20040309
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Letter of Warning (LOW)
Enforcement Responsible Person:	MNJRH
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
Direction  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20130416
Actual Return to Compliance Date:	20130904
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	008
Date of Enforcement Action:	20130716
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
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Database(s)

EDR ID Number  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State



Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
 Direction  
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 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date: Not reported  
Enforcement Identifier: 005  
Date of Enforcement Action: 20060518  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: FORGIVEABLE & NON-FORGIVEABLE APO  
Enforcement Responsible Person: MNJJ  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: 810  
Paid Amount: 810  
Final Count: 1  
Final Amount: 810

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - Records/Reporting  
Date Violation was Determined: 20060419  
Actual Return to Compliance Date: 20060623  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 004  
Date of Enforcement Action: 20060421  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: TEN DAY LETTER  
Enforcement Responsible Person: MNJJ  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20040309
Actual Return to Compliance Date:	20040419
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
Direction  
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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	003
Date of Enforcement Action:	20040309
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Letter of Warning (LOW)
Enforcement Responsible Person:	MNJRH
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170831
Actual Return to Compliance Date:	20180330
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20180110
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	RDS
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

Map ID  
Direction  
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EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State



Map ID  
Direction  
Distance  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date: Not reported  
Enforcement Identifier: 007  
Date of Enforcement Action: 20101001  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: FORGIVEABLE & NON-FORGIVEABLE APO  
Enforcement Responsible Person: MNKG  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported  
SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: 3525  
Paid Amount: 3525  
Final Count: 1  
Final Amount: 3525

Found Violation: Yes  
Agency Which Determined Violation: State  
Violation Short Description: Generators - General  
Date Violation was Determined: 20060419  
Actual Return to Compliance Date: 20060623  
Return to Compliance Qualifier: Observed  
Violation Responsible Agency: State  
Scheduled Compliance Date: Not reported  
Enforcement Identifier: 004  
Date of Enforcement Action: 20060421  
Enforcement Responsible Agency: State  
Enforcement Docket Number: Not reported  
Enforcement Attorney: Not reported  
Corrective Action Component: No  
Appeal Initiated Date: Not reported  
Appeal Resolution Date: Not reported  
Disposition Status Date: Not reported  
Disposition Status: Not reported  
Disposition Status Description: Not reported  
Consent/Final Order Sequence Number: Not reported  
Consent/Final Order Respondent Name: Not reported  
Consent/Final Order Lead Agency: Not reported  
Enforcement Type: TEN DAY LETTER  
Enforcement Responsible Person: MNJJ  
Enforcement Responsible Sub-Organization: Not reported  
SEP Sequence Number: Not reported

Map ID  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

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EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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MAP FINDINGS

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Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20170831
Actual Return to Compliance Date:	20180330
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20180110
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	RDS
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	006
Date of Enforcement Action:	20100825
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20100819
Actual Return to Compliance Date:	20101112
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	007
Date of Enforcement Action:	20101001
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNKG
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	3525
Paid Amount:	3525
Final Count:	1
Final Amount:	3525
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	004
Date of Enforcement Action:	20060421
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	TEN DAY LETTER
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State

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EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	810
Paid Amount:	810
Final Count:	1
Final Amount:	810
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	20060419
Actual Return to Compliance Date:	20060623
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	005
Date of Enforcement Action:	20060518
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	FORGIVEABLE & NON-FORGIVEABLE APO
Enforcement Responsible Person:	MNJJ
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

SEP Expenditure Amount: Not reported  
SEP Scheduled Completion Date: Not reported  
SEP Actual Date: Not reported  
SEP Defaulted Date: Not reported  
SEP Type: Not reported  
SEP Type Description: Not reported  
Proposed Amount: Not reported  
Final Monetary Amount: 810  
Paid Amount: 810  
Final Count: 1  
Final Amount: 810

Evaluation Action Summary:

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20130416  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20130904  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20100819  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20101112  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ



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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170831
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	RDS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19980611
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNHAK
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19980723
Scheduled Compliance Date:	19980820
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040309
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJRH
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040419
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170831
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	RDS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20180419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNRSH
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20011030
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020107

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	20011119
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20130416
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20130904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Map ID  
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Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Evaluation Date: 20170831  
Evaluation Responsible Agency: EPA  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: RDS  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20180330  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20170831  
Evaluation Responsible Agency: EPA  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: RDS  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20180330  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20100819  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20101112  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20100819  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20011030
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020107
Scheduled Compliance Date:	20011119
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20130416
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20130904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20130416
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20130904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20011030
Evaluation Responsible Agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020107
Scheduled Compliance Date:	20011119
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20220215
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJWS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060621
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

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Database(s)

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040309
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJRH
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040419
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20100819  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20101112  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20040309  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJRH  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20040419  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20040309  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJRH  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20040419  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20100819  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG

Map ID  
Direction  
Distance  
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MAP FINDINGS

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**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20040309
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJRH
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20040419
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported

Map ID  
Direction  
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MAP FINDINGS

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Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20130416
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20130904
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20100819  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20101112  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20040309  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJRH  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20040419  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20170831  
Evaluation Responsible Agency: EPA  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: RDS  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20180330  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20100819  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20101112  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ

Map ID  
Direction  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20100819  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNKG  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20101112  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported  
Request Agency: Not reported  
Former Citation: Not reported

Evaluation Date: 20060419  
Evaluation Responsible Agency: State  
Found Violation: Yes  
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Evaluation Responsible Person Identifier: MNJJ  
Evaluation Responsible Sub-Organization: Not reported  
Actual Return to Compliance Date: 20060623  
Scheduled Compliance Date: Not reported  
Date of Request: Not reported  
Date Response Received: Not reported



Map ID  
Direction  
Distance  
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MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20170831
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	RDS
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20180330
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20100819
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNKG
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20101112
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20060419
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	MNJJ
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20060623

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

**FINDS:**

Registry ID: 110003728903

[Click Here for FRS Facility Detail Report:](#)

**Environmental Interest/Information System:**

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

OSHA ESTABLISHMENT  
HAZARDOUS WASTE BIENNIAL REPORTER

Registry ID: 110070306831

[Click Here for FRS Facility Detail Report:](#)

**Environmental Interest/Information System:**

OSHA ESTABLISHMENT

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid:	1000888768
Registry ID:	110003728903
DFR URL:	<a href="http://echo.epa.gov/detailed-facility-report?fid=110003728903">http://echo.epa.gov/detailed-facility-report?fid=110003728903</a>
Name:	CIRRUS DESIGN CORPORATION
Address:	4515 TAYLOR CIRCLE
City,State,Zip:	DULUTH, MN 55811

**WI MANIFEST:**

Name:	CIRRUS DESIGN CORP
Address:	4515 TAYLOR CIRCLE
City,State,Zip:	DULUTH, MN 55811
Year:	2018
EPA ID:	MN0000275115
FID:	Not reported
ACT Code:	203
ACT Status:	A
ACT Code 1:	203
ACT Name:	HW Generator - Very Small
Contact Title:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:

Year: 2018  
Manifest Doc Id: 003533196GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/11/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 01/12/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/02/2018

Year: 2018  
Manifest Doc Id: 003533199GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/11/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 01/12/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/02/2018

Year: 2018  
Manifest Doc Id: 003533211GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/25/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 01/26/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/16/2018

Year: 2018  
Manifest Doc Id: 003533225GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/08/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 02/09/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/02/2018

Year: 2018  
Manifest Doc Id: 003533236GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/22/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 02/23/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/10/2018

Year: 2018  
Manifest Doc Id: 003533254GBF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/08/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 03/09/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/02/2018

Year: 2018  
Manifest Doc Id: 003533275GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/22/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 03/23/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/15/2018

Year: 2018  
Manifest Doc Id: 003533291GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/05/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 04/06/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/01/2018

Year: 2018  
Manifest Doc Id: 003533300GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/19/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 04/20/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/14/2018

Year: 2018  
Manifest Doc Id: 003533313GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/03/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 05/04/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/02/2018

Year: 2018  
Manifest Doc Id: 003533327GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/16/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 05/18/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/06/2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2018  
Manifest Doc Id: 003533345GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/31/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 06/01/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/02/2018

Year: 2018  
Manifest Doc Id: 003533359GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/14/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 06/15/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/02/2018

Year: 2018  
Manifest Doc Id: 003533376GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/28/2018  
GEN Copy Revd Date: Not reported  
TSD Date: 06/29/2018  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/16/2018

Name: CIRRUS DESIGN CORP  
Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811  
Year: 2017  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:  
Year: 2017  
Manifest Doc Id: 016798551JJK  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/05/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 04/07/2017  
TSD EPA ID: WID990829475

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD Copy Revd Date: 05/15/2017  
  
Year: 2017  
Manifest Doc Id: 003533158GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/14/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 12/15/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/31/2018

Year: 2017  
Manifest Doc Id: 003533178GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/27/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 12/29/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/19/2018

Year: 2017  
Manifest Doc Id: 002946441GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/12/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 01/16/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/01/2017

Year: 2017  
Manifest Doc Id: 002946472GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/26/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 01/27/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/01/2017

Year: 2017  
Manifest Doc Id: 002946491GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/09/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 02/10/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/14/2017

Year: 2017  
Manifest Doc Id: 002946525GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/23/2017

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

GEN Copy Revd Date: Not reported  
TSD Date: 02/24/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/31/2017

Year: 2017  
Manifest Doc Id: 002946540GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/09/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 03/10/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/17/2017

Year: 2017  
Manifest Doc Id: 002946583GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/06/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 04/07/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/15/2017

Year: 2017  
Manifest Doc Id: 002946584GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/06/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 04/07/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/15/2017

Year: 2017  
Manifest Doc Id: 002946629GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/20/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 04/21/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/31/2017

Year: 2017  
Manifest Doc Id: 002946649GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/04/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 05/05/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/16/2017

Year: 2017  
Manifest Doc Id: 002946676GBF



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/18/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 05/19/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/03/2017

Year: 2017  
Manifest Doc Id: 002946699GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/01/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 06/02/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/01/2017

Year: 2017  
Manifest Doc Id: 002947028GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/29/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 06/30/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/16/2017

Year: 2017  
Manifest Doc Id: 002947036GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/13/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 07/14/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/06/2017

Year: 2017  
Manifest Doc Id: 002947046GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/27/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 07/28/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/15/2017

Year: 2017  
Manifest Doc Id: 002947049GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/13/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 07/14/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/06/2017

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2017  
Manifest Doc Id: 002947072GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/10/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 08/11/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/03/2017

Year: 2017  
Manifest Doc Id: 002947081GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/24/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 08/25/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/10/2017

Year: 2017  
Manifest Doc Id: 002947126GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/06/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 09/08/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/01/2017

Year: 2017  
Manifest Doc Id: 002947136GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/21/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 09/22/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/16/2017

Year: 2017  
Manifest Doc Id: 002947226GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/04/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 10/06/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/01/2017

Year: 2017  
Manifest Doc Id: 002947242GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/19/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 10/20/2017

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/18/2017

Year: 2017  
Manifest Doc Id: 002947269GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/02/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 11/03/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/04/2018

Year: 2017  
Manifest Doc Id: 002947279GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/15/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 11/17/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/14/2018

Year: 2017  
Manifest Doc Id: 002947296GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/29/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 12/01/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/31/2018

Year: 2017  
Manifest Doc Id: 010447463FLE  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/09/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 02/10/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/14/2017

Year: 2017  
Manifest Doc Id: 010424621FLE  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/01/2017  
GEN Copy Revd Date: Not reported  
TSD Date: 06/02/2017  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/01/2017

Name: CIRRUS DESIGN CORP  
Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2016  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:

Year: 2016  
Manifest Doc Id: 003141518GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/02/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 11/04/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/15/2016

Year: 2016  
Manifest Doc Id: 002809375GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/14/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 01/15/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/15/2016

Year: 2016  
Manifest Doc Id: 002809376GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/14/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 01/15/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/15/2016

Year: 2016  
Manifest Doc Id: 002809390GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/28/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 01/29/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/01/2016

Year: 2016  
Manifest Doc Id: 002809391GBF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/28/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 01/29/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/01/2016

Year: 2016  
Manifest Doc Id: 002809392GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/28/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 01/29/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/01/2016

Year: 2016  
Manifest Doc Id: 002809429GBF  
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Gen EPA ID: MN0000275115  
Gen Date: 02/11/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 02/12/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/14/2016

Year: 2016  
Manifest Doc Id: 002809430GBF  
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Gen Date: 02/11/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 02/12/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/14/2016

Year: 2016  
Manifest Doc Id: 002946408GBF  
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Gen EPA ID: MN0000275115  
Gen Date: 12/15/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 12/16/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/01/2017

Year: 2016  
Manifest Doc Id: 002808904GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/28/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 07/29/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/02/2016

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2016  
Manifest Doc Id: 002808905GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/28/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 07/29/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/02/2016

Year: 2016  
Manifest Doc Id: 002808940GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/11/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 08/12/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/14/2016

Year: 2016  
Manifest Doc Id: 002808941GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/11/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 08/12/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/14/2016

Year: 2016  
Manifest Doc Id: 002808954GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/25/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 08/26/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/03/2016

Year: 2016  
Manifest Doc Id: 002808956GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/25/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 08/26/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/03/2016

Year: 2016  
Manifest Doc Id: 002808982GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/08/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 09/09/2016

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/14/2016

Year: 2016  
Manifest Doc Id: 002808986GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/08/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 09/09/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/14/2016

Year: 2016  
Manifest Doc Id: 002809004GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/22/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 09/23/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/02/2016

Year: 2016  
Manifest Doc Id: 002809007GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/22/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 09/23/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/02/2016

Year: 2016  
Manifest Doc Id: 002809051GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/06/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 10/07/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/16/2016

Year: 2016  
Manifest Doc Id: 002809078GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/20/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 10/21/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/01/2016

Year: 2016  
Manifest Doc Id: 002809105GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen Date: 11/17/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 11/18/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/01/2017

Year: 2016  
Manifest Doc Id: 002809106GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/17/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 11/18/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/01/2017

Year: 2016  
Manifest Doc Id: 002809125GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/01/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 12/02/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/16/2017

Year: 2016  
Manifest Doc Id: 002809126GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/01/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 12/02/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/16/2017

Year: 2016  
Manifest Doc Id: 000314390GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/30/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 07/01/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/15/2016

Year: 2016  
Manifest Doc Id: 000314391GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/30/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 07/01/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/15/2016

Year: 2016



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Manifest Doc Id: 000314393GBF  
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Gen EPA ID: MN0000275115  
Gen Date: 06/02/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 06/03/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/08/2016

Year: 2016  
Manifest Doc Id: 000314394GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/02/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 06/03/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/08/2016

Year: 2016  
Manifest Doc Id: 000314148GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/25/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 02/26/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/31/2016

Year: 2016  
Manifest Doc Id: 000314149GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/25/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 02/26/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/31/2016

Year: 2016  
Manifest Doc Id: 000314179GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/10/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 03/11/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/18/2016

Year: 2016  
Manifest Doc Id: 000314180GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/10/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 03/11/2016  
TSD EPA ID: WID990829475

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD Copy Revd Date: 04/18/2016  
  
Year: 2016  
Manifest Doc Id: 000314202GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/24/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 03/25/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/02/2016

Year: 2016  
Manifest Doc Id: 000314203GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/24/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 03/25/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/02/2016

Year: 2016  
Manifest Doc Id: 000314251GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/07/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 04/08/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/23/2016

Year: 2016  
Manifest Doc Id: 000314252GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/07/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 04/08/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/23/2016

Year: 2016  
Manifest Doc Id: 000314263GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/21/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 04/22/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/31/2016

Year: 2016  
Manifest Doc Id: 000314264GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/21/2016

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

GEN Copy Revd Date: Not reported  
TSD Date: 04/22/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/31/2016

Year: 2016  
Manifest Doc Id: 000314277GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/05/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 05/06/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/14/2016

Year: 2016  
Manifest Doc Id: 000314278GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/05/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 05/06/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/14/2016

Year: 2016  
Manifest Doc Id: 000314320GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/19/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 05/20/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/27/2016

Year: 2016  
Manifest Doc Id: 000314321GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/19/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 05/20/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/27/2016

Year: 2016  
Manifest Doc Id: 001338595GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/16/2016  
GEN Copy Revd Date: Not reported  
TSD Date: 06/17/2016  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/01/2016

Name: CIRRUS DESIGN CORP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811  
Year: 2015  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:

Year: 2015  
Manifest Doc Id: 002809156GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/22/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 10/23/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/01/2015

Year: 2015  
Manifest Doc Id: 002809157GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/22/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 10/23/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/01/2015

Year: 2015  
Manifest Doc Id: 002809215GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/05/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 11/06/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/14/2015

Year: 2015  
Manifest Doc Id: 002809216GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/05/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 11/06/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/14/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2015  
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Gen EPA ID: MN0000275115  
Gen Date: 11/19/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 11/20/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/04/2016

Year: 2015  
Manifest Doc Id: 002809255GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/19/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 11/20/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/04/2016

Year: 2015  
Manifest Doc Id: 002809298GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/03/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 12/04/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/13/2016

Year: 2015  
Manifest Doc Id: 002809299GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/03/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 12/04/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/13/2016

Year: 2015  
Manifest Doc Id: 002809315GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/17/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 12/18/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/01/2016

Year: 2015  
Manifest Doc Id: 002809316GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/17/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 12/18/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/01/2016

Year: 2015  
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Gen EPA ID: MN0000275115  
Gen Date: 01/15/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 01/16/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/09/2015

Year: 2015  
Manifest Doc Id: 001073179GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/15/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 01/16/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/13/2015

Year: 2015  
Manifest Doc Id: 002655292GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/04/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 06/05/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/09/2015

Year: 2015  
Manifest Doc Id: 002655293GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/04/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 06/05/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/09/2015

Year: 2015  
Manifest Doc Id: 002655311GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/17/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 06/19/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/03/2015

Year: 2015  
Manifest Doc Id: 002655312GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen Date: 06/17/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 06/19/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/03/2015

Year: 2015  
Manifest Doc Id: 002655350GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/02/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 07/02/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/14/2015

Year: 2015  
Manifest Doc Id: 002655351GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/01/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 07/02/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/14/2015

Year: 2015  
Manifest Doc Id: 002655375GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/16/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 07/17/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/31/2015

Year: 2015  
Manifest Doc Id: 002655376GBF  
Copy Type: TSDCOPY  
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Gen Date: 07/16/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 07/17/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/31/2015

Year: 2015  
Manifest Doc Id: 002655398GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/30/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 07/31/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/31/2015

Year: 2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Manifest Doc Id: 002655399GBF  
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GEN Copy Revd Date: Not reported  
TSD Date: 07/31/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/31/2015

Year: 2015  
Manifest Doc Id: 002655414GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/13/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 08/14/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/15/2015

Year: 2015  
Manifest Doc Id: 002655424GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/27/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 08/28/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/30/2015

Year: 2015  
Manifest Doc Id: 002655425GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/27/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 08/28/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/30/2015

Year: 2015  
Manifest Doc Id: 002655474GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/10/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 09/11/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/14/2015

Year: 2015  
Manifest Doc Id: 002655475GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/10/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 09/11/2015  
TSD EPA ID: WID990829475



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD Copy Revd Date: 10/14/2015  
Year: 2015  
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Gen Date: 09/23/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 09/25/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/02/2015

Year: 2015  
Manifest Doc Id: 002655490GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/23/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 09/25/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/02/2015

Year: 2015  
Manifest Doc Id: 002655525GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/08/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 10/09/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/13/2015

Year: 2015  
Manifest Doc Id: 002655526GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/08/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 10/09/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/13/2015

Year: 2015  
Manifest Doc Id: 001073200GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/29/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 01/30/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/13/2015

Year: 2015  
Manifest Doc Id: 001073201GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/29/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

GEN Copy Revd Date: Not reported  
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TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/13/2015

Year: 2015  
Manifest Doc Id: 001073214GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/12/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 02/13/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/16/2015

Year: 2015  
Manifest Doc Id: 001073215GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/12/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 02/13/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/16/2015

Year: 2015  
Manifest Doc Id: 001073225GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/25/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 02/27/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/31/2015

Year: 2015  
Manifest Doc Id: 001073226GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/25/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 02/27/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/31/2015

Year: 2015  
Manifest Doc Id: 001073230GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/11/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 03/13/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/14/2015

Year: 2015  
Manifest Doc Id: 001073231GBF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/11/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 03/13/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/14/2015

Year: 2015  
Manifest Doc Id: 001073239GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/26/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 03/27/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/27/2015

Year: 2015  
Manifest Doc Id: 001073240GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/26/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 03/27/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/27/2015

Year: 2015  
Manifest Doc Id: 001073241GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/25/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 03/27/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/27/2015

Year: 2015  
Manifest Doc Id: 001073256GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/09/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 04/10/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/14/2015

Year: 2015  
Manifest Doc Id: 001073257GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/09/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 04/10/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/14/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2015  
Manifest Doc Id: 001073296GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/23/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 04/24/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/29/2015

Year: 2015  
Manifest Doc Id: 001073297GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/23/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 04/24/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/29/2015

Year: 2015  
Manifest Doc Id: 001073307GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/07/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 05/08/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/15/2015

Year: 2015  
Manifest Doc Id: 001073308GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/07/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 05/08/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/15/2015

Year: 2015  
Manifest Doc Id: 001073309GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/07/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 05/08/2015  
TSD EPA ID: WID023350192  
TSD Copy Revd Date: 09/22/2015

Year: 2015  
Manifest Doc Id: 001073324GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/21/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 05/22/2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/30/2015

Year: 2015  
Manifest Doc Id: 001073325GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/21/2015  
GEN Copy Revd Date: Not reported  
TSD Date: 05/22/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/30/2015

Name: CIRRUS DESIGN CORP  
Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811  
Year: 2014  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:

Year: 2014  
Manifest Doc Id: 002173907GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/16/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 01/17/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/19/2014

Year: 2014  
Manifest Doc Id: 002173919GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/30/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 01/31/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/19/2014

Year: 2014  
Manifest Doc Id: 002173920GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/30/2014

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

GEN Copy Revd Date: Not reported  
TSD Date: 01/31/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/19/2014

Year: 2014  
Manifest Doc Id: 002173931GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/12/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 02/14/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/07/2014

Year: 2014  
Manifest Doc Id: 002173933GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/12/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 02/19/2014  
TSD EPA ID: WID023350192  
TSD Copy Revd Date: 03/14/2014

Year: 2014  
Manifest Doc Id: 002173942GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/28/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 03/07/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/28/2014

Year: 2014  
Manifest Doc Id: 002173957GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/13/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 03/14/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/28/2014

Year: 2014  
Manifest Doc Id: 002173973GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/26/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 03/28/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/21/2014

Year: 2014  
Manifest Doc Id: 002173974GBF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/26/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 03/28/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/21/2014

Year: 2014  
Manifest Doc Id: 002173986GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/10/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 04/11/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/05/2014

Year: 2014  
Manifest Doc Id: 002173987GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/10/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 04/11/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/05/2014

Year: 2014  
Manifest Doc Id: 001073055GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/11/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 09/12/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/02/2014

Year: 2014  
Manifest Doc Id: 001073068GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/25/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 09/26/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/10/2014

Year: 2014  
Manifest Doc Id: 001073092GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/08/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 10/10/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/27/2014

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2014  
Manifest Doc Id: 001073103GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/22/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 10/24/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/19/2014

Year: 2014  
Manifest Doc Id: 001073115GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/06/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 11/07/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/05/2014

Year: 2014  
Manifest Doc Id: 001073125GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/19/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 11/21/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/05/2014

Year: 2014  
Manifest Doc Id: 001073141GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/04/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 12/05/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/28/2014

Year: 2014  
Manifest Doc Id: 001073156GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/18/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 12/19/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/09/2015

Year: 2014  
Manifest Doc Id: 001073169GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/29/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 01/06/2015



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/16/2015

Year: 2014  
Manifest Doc Id: 001073170GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/29/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 01/06/2015  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/13/2015

Year: 2014  
Manifest Doc Id: 002174012GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/23/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 04/25/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/05/2014

Year: 2014  
Manifest Doc Id: 002174013GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/23/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 04/25/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/05/2014

Year: 2014  
Manifest Doc Id: 002174029GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/08/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 05/09/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/23/2014

Year: 2014  
Manifest Doc Id: 002174039GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/22/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 05/23/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/13/2014

Year: 2014  
Manifest Doc Id: 002174040GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen Date: 05/22/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 05/23/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/13/2014

Year: 2014  
Manifest Doc Id: 002174066GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/05/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 06/06/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/20/2014

Year: 2014  
Manifest Doc Id: 002174082GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/18/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 06/20/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/09/2014

Year: 2014  
Manifest Doc Id: 002174083GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/18/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 06/20/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/09/2014

Year: 2014  
Manifest Doc Id: 002174108GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/02/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 07/11/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/04/2014

Year: 2014  
Manifest Doc Id: 002174117GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/17/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 07/18/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/12/2014

Year: 2014

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Manifest Doc Id: 002174118GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/17/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 07/18/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/12/2014

Year: 2014  
Manifest Doc Id: 002174141GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/31/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 08/01/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/22/2014

Year: 2014  
Manifest Doc Id: 002174155GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/14/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 08/15/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/28/2014

Year: 2014  
Manifest Doc Id: 002174189GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/27/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 08/29/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/22/2014

Year: 2014  
Manifest Doc Id: 001964392GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/03/2014  
GEN Copy Revd Date: Not reported  
TSD Date: 01/10/2014  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/03/2014

Name: CIRRUS DESIGN CORP  
Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811  
Year: 2013  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:

Year: 2013  
Manifest Doc Id: 001337551GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/02/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 01/04/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/18/2013

Year: 2013  
Manifest Doc Id: 001337569GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/17/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 01/18/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/25/2013

Year: 2013  
Manifest Doc Id: 001337586GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/31/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 02/01/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/25/2013

Year: 2013  
Manifest Doc Id: 001337601GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/14/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 02/15/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/25/2013

Year: 2013  
Manifest Doc Id: 001337602GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/14/2013  
GEN Copy Revd Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD Date: 02/15/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/25/2013

Year: 2013  
Manifest Doc Id: 001337613GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/28/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 03/01/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/22/2013

Year: 2013  
Manifest Doc Id: 001337614GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/28/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 03/01/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/22/2013

Year: 2013  
Manifest Doc Id: 001337622GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/13/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 03/15/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/29/2013

Year: 2013  
Manifest Doc Id: 001337623GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/13/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 03/15/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/29/2013

Year: 2013  
Manifest Doc Id: 001337640GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/28/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 03/29/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/24/2013

Year: 2013  
Manifest Doc Id: 001337665GBF  
Copy Type: TSDCOPY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen EPA ID: MN0000275115  
Gen Date: 04/11/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 04/12/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/24/2013

Year: 2013  
Manifest Doc Id: 001337666GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/11/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 04/12/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/24/2013

Year: 2013  
Manifest Doc Id: 001337682GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/25/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 04/26/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/29/2013

Year: 2013  
Manifest Doc Id: 001337683GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/25/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 04/26/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/29/2013

Year: 2013  
Manifest Doc Id: 001964102GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/09/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 05/10/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/29/2013

Year: 2013  
Manifest Doc Id: 001964113GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/22/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 05/24/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/18/2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2013  
Manifest Doc Id: 001964114GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/22/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 05/24/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/18/2013

Year: 2013  
Manifest Doc Id: 001964122GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/05/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 06/07/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/28/2013

Year: 2013  
Manifest Doc Id: 001964123GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/05/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 06/07/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/28/2013

Year: 2013  
Manifest Doc Id: 001964170GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/19/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 06/21/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/15/2013

Year: 2013  
Manifest Doc Id: 001964181GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/02/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 07/03/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/15/2013

Year: 2013  
Manifest Doc Id: 001964196GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/18/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 07/19/2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/09/2013

Year: 2013  
Manifest Doc Id: 001964197GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/18/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 07/19/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/09/2013

Year: 2013  
Manifest Doc Id: 001964214GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/31/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 08/02/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/23/2013

Year: 2013  
Manifest Doc Id: 001964223GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/14/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 08/16/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/06/2013

Year: 2013  
Manifest Doc Id: 001964244GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/28/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 08/30/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/25/2013

Year: 2013  
Manifest Doc Id: 001964246GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/28/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 08/30/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/25/2013

Year: 2013  
Manifest Doc Id: 001964255GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen Date: 09/11/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 09/13/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/01/2013

Year: 2013  
Manifest Doc Id: 001964256GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/11/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 09/13/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/01/2013

Year: 2013  
Manifest Doc Id: 001964270GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/26/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 09/27/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/28/2013

Year: 2013  
Manifest Doc Id: 001964298GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/09/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 10/11/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/30/2013

Year: 2013  
Manifest Doc Id: 001964299GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/09/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 10/11/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/30/2013

Year: 2013  
Manifest Doc Id: 001964311GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/24/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 10/25/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/20/2013

Year: 2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Manifest Doc Id: 001964326GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/07/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 11/08/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/27/2013

Year: 2013  
Manifest Doc Id: 001964327GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/07/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 11/08/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/27/2013

Year: 2013  
Manifest Doc Id: 001964330GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/20/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 11/22/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/12/2013

Year: 2013  
Manifest Doc Id: 001964350GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/20/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 11/22/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/12/2013

Year: 2013  
Manifest Doc Id: 001964351GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/20/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 11/22/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/12/2013

Year: 2013  
Manifest Doc Id: 001964362GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/06/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 12/13/2013  
TSD EPA ID: WID990829475

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD Copy Revd Date: 01/08/2014  
Year: 2013  
Manifest Doc Id: 001964384GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/17/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 12/20/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/14/2014

Year: 2013  
Manifest Doc Id: 001964385GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/19/2013  
GEN Copy Revd Date: Not reported  
TSD Date: 12/20/2013  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/14/2014

Name: CIRRUS DESIGN CORP  
Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811  
Year: 2012  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:  
Year: 2012  
Manifest Doc Id: 001664401GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/01/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 02/03/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/24/2012

Year: 2012  
Manifest Doc Id: 001664412GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/15/2012  
GEN Copy Revd Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD Date: 02/17/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/06/2012

Year: 2012  
Manifest Doc Id: 001664427GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/05/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 03/09/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/30/2012

Year: 2012  
Manifest Doc Id: 001664434GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/15/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 03/16/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/30/2012

Year: 2012  
Manifest Doc Id: 001664445GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/28/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 04/06/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/25/2012

Year: 2012  
Manifest Doc Id: 001664456GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/12/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 04/13/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/02/2012

Year: 2012  
Manifest Doc Id: 001664474GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/26/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 04/27/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/09/2012

Year: 2012  
Manifest Doc Id: 001664489GBF  
Copy Type: TSDCOPY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen EPA ID: MN0000275115  
Gen Date: 05/10/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 05/11/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/25/2012

Year: 2012  
Manifest Doc Id: 001664502GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/24/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 05/25/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/08/2012

Year: 2012  
Manifest Doc Id: 001664503GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/24/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 05/25/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/08/2012

Year: 2012  
Manifest Doc Id: 001664514GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/06/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 06/08/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/20/2012

Year: 2012  
Manifest Doc Id: 001664526GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/21/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 06/22/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/05/2012

Year: 2012  
Manifest Doc Id: 001664532GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/06/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 07/13/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/24/2012

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2012  
Manifest Doc Id: 001664553GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/19/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 07/20/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/13/2012

Year: 2012  
Manifest Doc Id: 001664565GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/02/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 08/03/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/29/2012

Year: 2012  
Manifest Doc Id: 001664576GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/16/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 08/17/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/07/2012

Year: 2012  
Manifest Doc Id: 001664336GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/05/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 01/06/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/25/2012

Year: 2012  
Manifest Doc Id: 001664365GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/18/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 01/20/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/31/2012

Year: 2012  
Manifest Doc Id: 001337411GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/30/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 08/31/2012

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/14/2012

Year: 2012  
Manifest Doc Id: 001337421GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/13/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 09/14/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/28/2012

Year: 2012  
Manifest Doc Id: 001337443GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/26/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 09/28/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/15/2012

Year: 2012  
Manifest Doc Id: 001337462GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/11/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 10/12/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/24/2012

Year: 2012  
Manifest Doc Id: 001337476GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/25/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 10/26/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/09/2012

Year: 2012  
Manifest Doc Id: 001337487GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/08/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 11/09/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/28/2012

Year: 2012  
Manifest Doc Id: 001337508GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen Date: 11/20/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 11/28/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/05/2012

Year: 2012  
Manifest Doc Id: 001337529GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/05/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 12/07/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/28/2012

Year: 2012  
Manifest Doc Id: 001337534GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/05/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 12/07/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/28/2012

Year: 2012  
Manifest Doc Id: 001337545GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/20/2012  
GEN Copy Revd Date: Not reported  
TSD Date: 12/21/2012  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/11/2013

Name: CIRRUS DESIGN CORP  
Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811  
Year: 2011  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:  
Year: 2011  
Manifest Doc Id: 001073758GBF



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/09/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 06/10/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/14/2011

Year: 2011  
Manifest Doc Id: 001073779GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/22/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 06/24/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/14/2011

Year: 2011  
Manifest Doc Id: 001073796GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/07/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 07/15/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/10/2011

Year: 2011  
Manifest Doc Id: 001073804GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/21/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 07/22/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/10/2011

Year: 2011  
Manifest Doc Id: 001073824GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/04/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 08/05/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/23/2011

Year: 2011  
Manifest Doc Id: 001073834GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/18/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 08/19/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/06/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2011  
Manifest Doc Id: 001073850GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/01/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 09/02/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/22/2011

Year: 2011  
Manifest Doc Id: 001073862GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/15/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 09/16/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/12/2011

Year: 2011  
Manifest Doc Id: 001073863GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/15/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 09/16/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/12/2011

Year: 2011  
Manifest Doc Id: 001073876GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/29/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 09/30/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/26/2011

Year: 2011  
Manifest Doc Id: 001073899GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/13/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 10/14/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/11/2011

Year: 2011  
Manifest Doc Id: 001073923GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/27/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 10/28/2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/11/2011

Year: 2011  
Manifest Doc Id: 001073940GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/10/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 11/11/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/30/2011

Year: 2011  
Manifest Doc Id: 001664301GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/22/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 11/23/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/07/2011

Year: 2011  
Manifest Doc Id: 001664323GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/08/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 12/09/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/30/2011

Year: 2011  
Manifest Doc Id: 001664337GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/21/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 12/27/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/12/2012

Year: 2011  
Manifest Doc Id: 001073662GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/31/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 04/04/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/29/2011

Year: 2011  
Manifest Doc Id: 001073686GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen Date: 04/14/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 04/15/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/17/2011

Year: 2011  
Manifest Doc Id: 001073708GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/28/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 04/29/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/09/2011

Year: 2011  
Manifest Doc Id: 001073720GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/11/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 05/13/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/09/2011

Year: 2011  
Manifest Doc Id: 001073734GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/26/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 05/31/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/23/2011

Year: 2011  
Manifest Doc Id: 000315198GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/06/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 01/07/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/17/2011

Year: 2011  
Manifest Doc Id: 000315200GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/06/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 01/07/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/24/2011

Year: 2011

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Manifest Doc Id: 000315212GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/20/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 01/21/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/09/2011

Year: 2011  
Manifest Doc Id: 000315228GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/03/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 02/08/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/08/2011

Year: 2011  
Manifest Doc Id: 000315236GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/17/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 02/18/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/08/2011

Year: 2011  
Manifest Doc Id: 000315278GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/03/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 03/04/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/17/2011

Year: 2011  
Manifest Doc Id: 000315291GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/16/2011  
GEN Copy Revd Date: Not reported  
TSD Date: 03/18/2011  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/05/2011

Name: CIRRUS DESIGN CORP  
Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811  
Year: 2010  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:

Year: 2010  
Manifest Doc Id: 000315169GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/09/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 12/10/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/11/2011

Year: 2010  
Manifest Doc Id: 000315174GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/20/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 12/29/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/24/2011

Year: 2010  
Manifest Doc Id: 000315190GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/20/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 12/29/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/24/2011

Year: 2010  
Manifest Doc Id: 000315071GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/30/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 10/08/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/27/2010

Year: 2010  
Manifest Doc Id: 000315088GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/14/2010  
GEN Copy Revd Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD Date: 10/15/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/09/2010

Year: 2010  
Manifest Doc Id: 000315091GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/14/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 10/15/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 11/09/2010

Year: 2010  
Manifest Doc Id: 000315101GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 10/28/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 10/29/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/03/2010

Year: 2010  
Manifest Doc Id: 000315134GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/11/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 11/12/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/03/2010

Year: 2010  
Manifest Doc Id: 000315160GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/22/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 11/24/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/09/2010

Year: 2010  
Manifest Doc Id: 000315004GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/22/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 07/23/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/11/2010

Year: 2010  
Manifest Doc Id: 000315016GBF  
Copy Type: TSDCOPY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen EPA ID: MN0000275115  
Gen Date: 08/05/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 08/06/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/19/2010

Year: 2010  
Manifest Doc Id: 000315034GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/19/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 08/20/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/01/2010

Year: 2010  
Manifest Doc Id: 000315047GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/02/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 09/03/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/22/2010

Year: 2010  
Manifest Doc Id: 000315057GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/16/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 09/17/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/05/2010

Year: 2010  
Manifest Doc Id: 000831498GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/07/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 01/08/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/02/2010

Year: 2010  
Manifest Doc Id: 000831514GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/21/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 01/22/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/25/2010



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2010  
Manifest Doc Id: 000831636GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/01/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 04/02/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/27/2010

Year: 2010  
Manifest Doc Id: 000831638GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/01/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 04/02/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/27/2010

Year: 2010  
Manifest Doc Id: 000831652GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/15/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 04/16/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/12/2010

Year: 2010  
Manifest Doc Id: 000831655GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/15/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 04/16/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/12/2010

Year: 2010  
Manifest Doc Id: 000831666GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/28/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 04/30/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/12/2010

Year: 2010  
Manifest Doc Id: 000831684GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/13/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 05/14/2010

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/22/2010

Year: 2010  
Manifest Doc Id: 000831694GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/27/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 05/28/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/28/2010

Year: 2010  
Manifest Doc Id: 000831707GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/10/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 06/11/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/14/2010

Year: 2010  
Manifest Doc Id: 000831719GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/24/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 07/02/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/29/2010

Year: 2010  
Manifest Doc Id: 000831738GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/08/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 07/09/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/11/2010

Year: 2010  
Manifest Doc Id: 000831601GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 03/04/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 03/05/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/24/2010

Year: 2010  
Manifest Doc Id: 000831620GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen Date: 03/17/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 03/19/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 04/27/2010

Year: 2010  
Manifest Doc Id: 000831529GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/04/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 02/05/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/19/2010

Year: 2010  
Manifest Doc Id: 000831543GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/17/2010  
GEN Copy Revd Date: Not reported  
TSD Date: 02/19/2010  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/04/2010

Name: CIRRUS DESIGN CORP  
Address: 4515 TAYLOR CIRCLE  
City,State,Zip: DULUTH, MN 55811  
Year: 2009  
EPA ID: MN0000275115  
FID: Not reported  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Shipped:  
Year: 2009  
Manifest Doc Id: 000831482GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/21/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 12/30/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/27/2010

Year: 2009  
Manifest Doc Id: 000831471GBF

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/10/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 12/18/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 01/14/2010

Year: 2009  
Manifest Doc Id: 000830297GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/11/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 06/12/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/24/2009

Year: 2009  
Manifest Doc Id: 000830298GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/11/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 06/12/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/24/2009

Year: 2009  
Manifest Doc Id: 000830313GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 06/24/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 06/25/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/15/2009

Year: 2009  
Manifest Doc Id: 000830334GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/09/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 07/10/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 07/22/2009

Year: 2009  
Manifest Doc Id: 000830385GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 07/22/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 07/24/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/26/2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Year: 2009  
Manifest Doc Id: 000830416GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/06/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 08/07/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 08/26/2009

Year: 2009  
Manifest Doc Id: 000830436GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 08/19/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 08/21/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/15/2009

Year: 2009  
Manifest Doc Id: 000830449GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/03/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 09/11/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/01/2009

Year: 2009  
Manifest Doc Id: 000830468GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/17/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 09/22/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/01/2009

Year: 2009  
Manifest Doc Id: 000830475GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/17/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 09/22/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/01/2009

Year: 2009  
Manifest Doc Id: 000830500GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 09/30/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 10/02/2009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

TSD EPA ID: WID990829475  
TSD Copy Revd Date: 10/13/2009

Year: 2009  
Manifest Doc Id: 000830535GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/25/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 12/04/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/23/2009

Year: 2009  
Manifest Doc Id: 000830532GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 12/25/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 12/04/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/23/2009

Year: 2009  
Manifest Doc Id: 000830544GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 11/12/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 11/13/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 12/01/2009

Year: 2009  
Manifest Doc Id: 000830250GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/29/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 05/01/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/27/2009

Year: 2009  
Manifest Doc Id: 000830256GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/29/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 05/01/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/27/2009

Year: 2009  
Manifest Doc Id: 000830260GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Gen Date: 05/14/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 05/20/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/05/2009

Year: 2009  
Manifest Doc Id: 000830264GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 05/14/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 05/20/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/05/2009

Year: 2009  
Manifest Doc Id: 000314580GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 04/15/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 04/24/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 05/13/2009

Year: 2009  
Manifest Doc Id: 000314613GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 01/22/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 01/23/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 02/03/2009

Year: 2009  
Manifest Doc Id: 000314630GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/04/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 02/06/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/06/2009

Year: 2009  
Manifest Doc Id: 000314648GBF  
Copy Type: TSDCOPY  
Gen EPA ID: MN0000275115  
Gen Date: 02/18/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 02/23/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 03/06/2009

Year: 2009

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORPORATION (Continued)**

**1000888768**

Manifest Doc Id: 000314664GBF  
 Copy Type: TSDCOPY  
 Gen EPA ID: MN0000275115  
 Gen Date: 03/04/2009  
 GEN Copy Revd Date: Not reported  
 TSD Date: 03/06/2009  
 TSD EPA ID: WID990829475  
 TSD Copy Revd Date: 03/24/2009

Year: 2009  
 Manifest Doc Id: 000314675GBF  
 Copy Type: TSDCOPY  
 Gen EPA ID: MN0000275115  
 Gen Date: 03/18/2009  
 GEN Copy Revd Date: Not reported  
 TSD Date: 03/20/2009  
 TSD EPA ID: WID990829475  
 TSD Copy Revd Date: 04/09/2009

[Click this hyperlink](#) while viewing on your computer to access  
 5 additional WI MANIFEST: record(s) in the EDR Site Report.

**H47**  
**WNW**  
**1/8-1/4**  
**0.181 mi.**  
**957 ft.**

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT**  
**4515 TAYLOR CIR**  
**DULUTH, MN 55811**  
**Site 5 of 5 in cluster H**

**MN ENF S109685595**  
**MN WIMN N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1414 ft.**

MN Enforcement Log :

Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT
Address:	4515 TAYLOR CIR
City,State,Zip:	DULUTH, MN
Facility ID:	MN0000275115
Violation:	262.C - Generators - Pre-transport
Determined Date:	08/19/2010
Determined By:	State
Responsible Agency:	Not reported
RTC Date:	11/12/2010
Enforcement Sequence:	007
Effective End Date:	07/23/1998
Enforcement Type:	Letter of Warning
Lead Agency:	State
Sequence:	38
AI ID:	37928
Activity ID:	NON19990001
Public Flag:	Y
Latitude:	46.83832843
Longitude:	-92.20363491
Coord Collect Meth Desc:	Address Matching House Number
Mailing Address1:	4515 Taylor Cir
Mailing City Name:	Duluth
Mailing State Code:	MN
Mailing Zip Code:	Not reported
Responsible Party:	Foster Aviation (Duluth, MN)
Zero Date:	07/23/1998
Case Closed:	Not reported
Case Lead:	Heidi Kroening



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S109685595**

Attorney Assigned: Not reported  
Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: MN0000275115  
Violation: 262.C - Generators - Pre-transport  
Determined Date: 08/19/2010  
Determined By: State  
Responsible Agency: Not reported  
RTC Date: 11/12/2010  
Enforcement Sequence: 007  
Effective End Date: 03/09/2004  
Enforcement Type: Letter of Warning  
Lead Agency: State  
Sequence: 38  
AI ID: 37928  
Activity ID: NON20040001  
Public Flag: Y  
Latitude: 46.83832843  
Longitude: -92.20363491  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4515 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Cirrus Design Corp aka Cirrus Aircraft (Duluth, MN)  
Zero Date: 03/09/2004  
Case Closed: Not reported  
Case Lead: Joe Henderson  
Attorney Assigned: Not reported  
Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S109685595**

Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: 13700343  
Violation: Not reported  
Determined Date: Not reported  
Determined By: Not reported  
Responsible Agency: Not reported  
RTC Date: Not reported  
Enforcement Sequence: Not reported  
Effective End Date: 10/30/2017  
Enforcement Type: Letter of Warning  
Lead Agency: Not reported  
Sequence: Not reported  
AI ID: 37928  
Activity ID: NON20170001  
Public Flag: Y  
Latitude: 46.83832843  
Longitude: -92.20363491  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4515 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Cirrus Design Corp aka Cirrus Aircraft (Duluth, MN)  
Zero Date: 10/20/2017  
Case Closed: 11/22/2017  
Case Lead: Timothy Schwarz  
Attorney Assigned: Not reported  
Lead Program: Air  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: \$0  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: MN0000275115  
Violation: 262.C - Generators - Pre-transport  
Determined Date: 08/19/2010  
Determined By: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S109685595**

Responsible Agency: Not reported  
RTC Date: 11/12/2010  
Enforcement Sequence: 007  
Effective End Date: 11/15/2001  
Enforcement Type: APO - Forgivable  
Lead Agency: State  
Sequence: 38  
AI ID: 37928  
Activity ID: PEN20010001  
Public Flag: Y  
Latitude: 46.83832843  
Longitude: -92.20363491  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4515 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Cirrus Design Corp aka Cirrus Aircraft (Duluth, MN)  
Zero Date: 10/30/2001  
Case Closed: 1/8/2002  
Case Lead: Jennifer Jensen  
Attorney Assigned: Beverly Conerton  
Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: 2,750  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: 2750

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: MN0000275115  
Violation: 262.C - Generators - Pre-transport  
Determined Date: 08/19/2010  
Determined By: State  
Responsible Agency: Not reported  
RTC Date: 11/12/2010  
Enforcement Sequence: 007  
Effective End Date: 05/18/2006  
Enforcement Type: APO - Combination Forgivable & Nonforgivable  
Lead Agency: State  
Sequence: 38  
AI ID: 37928  
Activity ID: PEN20060001  
Public Flag: Y  
Latitude: 46.83832843  
Longitude: -92.20363491

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S109685595**

Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4515 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Cirrus Design Corp aka Cirrus Aircraft (Duluth, MN)  
Zero Date: 04/19/2006  
Case Closed: 6/23/2006  
Case Lead: Jennifer Jensen  
Attorney Assigned: Lawrence Pry  
Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: 810  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: 810

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: MN0000275115  
Violation: 262.C - Generators - Pre-transport  
Determined Date: 08/19/2010  
Determined By: State  
Responsible Agency: Not reported  
RTC Date: 11/12/2010  
Enforcement Sequence: 007  
Effective End Date: 10/01/2010  
Enforcement Type: APO - Combination Forgivable & Nonforgivable  
Lead Agency: State  
Sequence: 38

AI ID: 37928  
Activity ID: PEN20100001  
Public Flag: Y  
Latitude: 46.83832843  
Longitude: -92.20363491  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4515 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Cirrus Design Corp aka Cirrus Aircraft (Duluth, MN)  
Zero Date: 08/19/2010  
Case Closed: 11/12/2010  
Case Lead: Kit Grayson  
Attorney Assigned: Lawrence Pry  
Lead Program: Hazardous Waste  
Multimedia: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S109685595**

Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: 4,830  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: 3525  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: 8355

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: MN0000275115  
Violation: 262.C - Generators - Pre-transport  
Determined Date: 08/19/2010  
Determined By: State  
Responsible Agency: Not reported  
RTC Date: 11/12/2010  
Enforcement Sequence: 007  
Effective End Date: 07/16/2013  
Enforcement Type: APO - Combination Forgivable & Nonforgivable  
Lead Agency: State  
Sequence: 38  
AI ID: 37928  
Activity ID: PEN20150001  
Public Flag: Y  
Latitude: 46.83832843  
Longitude: -92.20363491  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4515 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Cirrus Design Corp aka Cirrus Aircraft (Duluth, MN)  
Zero Date: 04/16/2013  
Case Closed: 9/4/2013  
Case Lead: Kit Grayson  
Attorney Assigned: Carmen Netten  
Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: 747  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: 1400  
Not Abated: Not reported  
SEP Abandonment: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S109685595**

Grand Total: 2147

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: 13700343  
Violation: Not reported  
Determined Date: Not reported  
Determined By: Not reported  
Responsible Agency: Not reported  
RTC Date: Not reported  
Enforcement Sequence: Not reported  
Effective End Date: 03/20/2017  
Enforcement Type: Stipulation Agreement  
Lead Agency: Not reported  
Sequence: Not reported  
AI ID: 37928  
Activity ID: PEN20160001  
Public Flag: Y  
Latitude: 46.83832843  
Longitude: -92.20363491  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4515 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Cirrus Design Corp (Duluth, MN)  
Zero Date: 02/02/2016  
Case Closed: 4/25/2017  
Case Lead: Janice Noggle  
Attorney Assigned: Not reported  
Lead Program: Air  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: \$0  
Calculated: Not reported  
Citation: Not reported  
Civil: 50,000  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: 50000

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
City,State,Zip: DULUTH, MN  
Facility ID: 13700343  
Violation: Not reported  
Determined Date: Not reported  
Determined By: Not reported  
Responsible Agency: Not reported  
RTC Date: Not reported  
Enforcement Sequence: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S109685595**

Effective End Date: 04/20/2021  
Enforcement Type: APO - Nonforgivable  
Lead Agency: Not reported  
Sequence: Not reported  
AI ID: 37928  
Activity ID: PEN20200001  
Public Flag: Y  
Latitude: 46.83832843  
Longitude: -92.20363491  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 4515 Taylor Cir  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Cirrus Design Corp aka Cirrus Aircraft (Duluth, MN)  
Zero Date: 12/26/2019  
Case Closed: 6/3/2021  
Case Lead: Janice Noggle  
Attorney Assigned: Not reported  
Lead Program: Air  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: \$0  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: 3161  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: 3161

**WIMN:**

Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
Address: 4515 TAYLOR CIR  
Address Description: 4515 Taylor Cir  
City,State,Zip: DULUTH, MN 55811-1548  
Status: Y  
Latitude: 46.838328429999997  
Longitude: -92.203634910000005  
Item ID: 37928-AISI0000037928  
AI ID: 37928  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 37928  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Multiple Programs  
Program List: AQ; HW; PP; ST; TL; WW  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S109685595**

Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/26/2021
Timestamp of Creation:	07/29/1999
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	03/16/2022
User Name of Last Update:	rparlin
Status Date:	Not reported
The Delta Spatial ID:	45612
Activity:	Multiple Activities
Activity List:	Aboveground Tanks; Air Quality; Hazardous Waste, Large quantity generator; Industrial Stormwater; Toxics Reduction; Wastewater
MPCA ID:	Multiple IDs
MPCA List:	13700343; MN0000275115; MNR0536HW; MNR053CLL; SIU000623; TR-gen; TS0123
Program List:	Air Quality; Hazardous Waste; Pollution Prevention; Stormwater; Tanks; Water Quality
Classification:	Aircraft Manufacturing
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/37928">https://webapp.pca.state.mn.us/wimn/site/37928</a>

**G48**  
 South  
 1/8-1/4  
 0.184 mi.  
 971 ft.

**REPAIR PMEL ASPHALT PAVEMENTS**  
**4437 AIRPORT APPROACH ROAD**  
**DULUTH, MN 55811**

**MN NPDES S120938496**  
**MN WIMN N/A**

**Site 2 of 2 in cluster G**

**Relative:**  
**Lower**  
**Actual:**  
**1418 ft.**

NPDES:  
 Name: REPAIR PMEL ASPHALT PAVEMENTS  
 Address: 4437 AIRPORT APPROACH ROAD  
 City,State,Zip: DULUTH, MN 55811  
 Active: Y  
 Activity ID: C00046787  
 Preferred ID: Not reported  
 Activity Sys ID: 21717446787  
 Activity Type: Construction Stormwater Permit  
 Activity Type Code: 45  
 Effective Start Date: 06/26/2017  
 End Date: 08/03/2017  
 Alternative Method: Not reported  
 Coverage Date: 06/27/2017



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**REPAIR PMEL ASPHALT PAVEMENTS (Continued)**

**S120938496**

Latitude Degree: 46.833364  
Longitude Degree: -92.195224  
Location Description: Not reported  
New Imp Area: 0.64  
Old Imp Area: 0.65  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Minnesota Air National Guard 148th Fighter Wi  
Owner Organization Type: Private (Non-Government)  
Permit Sys ID: 3016537  
Project Name: Repair PMEL Asphalt Pavements  
Project Size: 1.46  
Termination Date: Not reported  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: George Bougalis and Sons Co.

**WIMN:**

Name: REPAIR PMEL ASPHALT PAVEMENTS  
Address: 4437 AIRPORT APPROACH ROAD  
Address Description: 4437 Airport Approach Road  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.833364000000003  
Longitude: -92.195223999999996  
Item ID: 217174-AISI0000217174  
AI ID: 217174  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 217174  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Stormwater  
Program List: ST  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**REPAIR PMEL ASPHALT PAVEMENTS (Continued)**

**S120938496**

Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DP
Method Description:	Digitized - MPCA online map
Ref Code:	CEN
Ref Description:	Center of Feature Represented
Location Verified Flag:	N
Collection Date:	06/20/2017
Timestamp of Creation:	06/20/2017
User Name of Creator:	RSP
Timestamp of Last Update:	06/20/2017
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Construction Stormwater
Activity List:	Construction Stormwater
MPCA ID:	C00046787
MPCA List:	C00046787
Program List:	Stormwater
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/217174">https://webapp.pca.state.mn.us/wimn/site/217174</a>

**I49**  
**WNW**  
**1/4-1/2**  
**0.318 mi.**  
**1681 ft.**

**DULUTH AIR FORCE BASE SITE 32 - MANG AOC C**  
**SEE LOCATION DESCRIPTION**  
**DULUTH, MN 55811**

**MN SHWS S109604812**  
**N/A**

**Site 1 of 2 in cluster I**

**Relative:**  
**Lower**  
**Actual:**  
**1410 ft.**

<b>SHWS:</b>	
Name:	DULUTH AIR FORCE BASE SITE 32 - MANG AOC C
Address:	SEE LOCATION DESCRIPTION
City,State,Zip:	DULUTH, MN 55811
Facility Id:	26
Item ID:	192224-AREA0000000026
AI ID:	192224
AI Name:	Duluth Air Force Base
Site Type:	Superfund Investigation/Cleanup
Hydro:	Mark Elliott (current)
Project Manager:	David Knight (former), Heidi Bauman (current), Mark Elliott (current)
Latitude:	46.83841654000
Longitude:	-92.20496307000
Coord Collection Method:	Interpolation Other
Migrated:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH AIR FORCE BASE SITE 32 - MANG AOC C (Continued)**

**S109604812**

WIMN: <https://webapp.pca.state.mn.us/wimn/site/192224>  
 Leak Discovered Date: Not reported  
 Leak Reported Date: Not reported  
 Application / Notification Received: 10/30/1984  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Site Closed: Not reported  
 Owner: Not reported  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported

**150**  
**WNW**  
**1/4-1/2**  
**0.318 mi.**  
**1681 ft.**

**DULUTH AIR FORCE BASE SITE 32 - MANG AOC C**  
**SEE LOCATION DESCRIPTION**  
**DULUTH, MN 55811**

**MN SRS S119123755**  
**MN VAPOR N/A**

**Site 2 of 2 in cluster I**

**Relative:**  
**Lower**

**SRS:**  
 Name: DULUTH AIR FORCE BASE SITE 32 - MANG AOC C  
 Address: SEE LOCATION DESCRIPTION  
 City,State,Zip: DULUTH, MN 55811  
 Facility ID: SR0000368  
 Item ID: 192224-AREA0000000026  
 AI ID: 192224  
 AI Name: Duluth Air Force Base  
 Facility Type: OPER  
 Hydro: Mark Elliott (current)  
 Project Manager: David Knight (former), Heidi Bauman (current), Mark Elliott (current)  
 Latitude: 46.83841654000  
 Longitude: -92.20496307000  
 Coord Collection Method: Interpolation Other  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/192224>  
 Leak Discovered: Not reported  
 Leak Reported: Not reported  
 Application / Notification Received: 10/30/1984  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Site Closed: Not reported  
 Owner: Not reported  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported  
 Acreage: 4.20000000  
 BPET: Not reported  
 BVIC: Not reported  
 SEMS: Not reported  
 UNP Dump: Not reported  
 IC: Not reported  
 HRS Score: 0  
 Score Year: Not reported

**Actual:**  
**1410 ft.**

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH AIR FORCE BASE SITE 32 - MANG AOC C (Continued)**

**S119123755**

Activity ID: SIW20090001  
 Act Desc: Superfund Investigation/Cleanup  
 Status: Active / Existing

VAPOR:

Name: DULUTH AIR FORCE BASE SITE 32 - MANG AOC C  
 Address: SEE LOCATION DESCRIPTION  
 City,State,Zip: DULUTH, MN  
 Site ID: SR0000368  
 Delta Site ID: 192224  
 WIMN Link: <https://webapp.pca.state.mn.us/wimn/site/192224>  
 AI Name: Duluth Air Force Base  
 Vapor Concern at Site: Other sites where vapor exceeded standards  
 Vapor Reassessment: No  
 Item ID: 192224-AREA0000000026  
 Site Type: Superfund sub-area  
 Method Desc: Interpolation Other  
 Latitude: 46.83841654  
 Longitude: -92.20496307

51  
 NNW  
 1/4-1/2  
 0.324 mi.  
 1709 ft.

**DULUTH INTL AIRPORT RADAR TOWER**  
**SEE LOCATION DESCRIPTION**  
**DULUTH, MN 55811**

**MN LUST** S110817550  
**MN SRS** N/A  
**MN Financial Assurance**  
**MN WIMN**

**Relative:**  
**Lower**  
**Actual:**  
**1410 ft.**

LUST:

Name: DULUTH INTL AIRPORT RADAR TOWER  
 Address: SEE LOCATION DESCRIPTION  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 188827-AREA0000000001  
 MNPCA ID: 222056  
 AI ID: 188827  
 AI Name: Duluth Intl Airport Radar Tower  
 Site Type: Leak Site  
 Hydro: Not reported  
 Project Manager: Gary Zarling (former)  
 Latitude: 46.84387973  
 Longitude: -92.19742024  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/188827>  
 Leak Discovered: 06/20/1996  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Not reported  
 Site Closed: 01/28/1999  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported  
 SI Type: Not reported  
 Leak Reported: 07/31/1996

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

DULUTH INTL AIRPORT RADAR TOWER (Continued)

S110817550

0816:

Program IN: 222056  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 9527  
Township Name: Not reported  
Addr ID: 24026  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 01/27/1999 00:00:00  
Interest End Date: 03/10/2011 14:05:08  
Source: CORE  
Site ID: 59556326  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: 06/18/1996  
Cubic Yards Excavated: 30  
Cond Closure Date: Not reported  
Complete Site Closure Date: 01/28/1999 00:00:00  
Contaminated Soils Remaining: S  
Enforcement Action Begin Date: 08/09/1996  
Last Trust Eligible: Y  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 06/20/1996  
Leak Reported Date: 07/31/1996  
Std Letter Response Date: 08/08/1996  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:50  
TMSP Last Update: 06/17/2014 14:28:23  
Staff ID Last Update: DBOETTC  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: FAA-ASR-8 Radar Tower

GW Info:

MN PCA ID: 222056  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTL AIRPORT RADAR TOWER (Continued)**

**S110817550**

Free Product Thickness: Not reported  
Ground Water Contam: N  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:33  
TMSP Last Update: 11/04/2003 12:57:08  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 222056  
Prod Released Sequence Id: 323416  
Leak Product: 8  
Tmsp Added: 12/04/1999 14:04:35  
Tmsp Last\_updt: 05/04/2002 09:32:29  
Staff Id Last Updt: TANKS

**SRS:**

Name: DULUTH INTL AIRPORT RADAR TOWER  
Address: SEE LOCATION DESCRIPTION  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0009527  
Item ID: 188827-AREA0000000001  
AI ID: 188827  
AI Name: Duluth Intl Airport Radar Tower  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Gary Zarling (former)  
Latitude: 46.84387973000  
Longitude: -92.19742024000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/188827>  
Leak Discovered: 06/20/1996  
Leak Reported: 07/31/1996  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 01/28/1999  
Owner: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTL AIRPORT RADAR TOWER (Continued)**

**S110817550**

Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19960001  
Act Desc: Leak Site Investigation  
Status: Closed

**MN Financial Assurance 1:**

PROGRAM ID: 222056  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 24026  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 9527  
Interest Start Date: 01/27/1999  
Interest End Date: 03/10/2011  
Activity Flag: N  
TMSP Added: 10/16/2007  
TMSP Last Update: 11/10/2014 08:17:06  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 59556326  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: FAA-ASR-8 Radar Tower

**Latitude Longitude:**

Program Id: 222056  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 44.560914  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 56.806002  
Collection Date: 11/03/2005 00:00:00  
Lat/Long Description: Site Center  
TMSP Added: 11/14/2005 09:18:13  
TMSP Last Update: 11/14/2005 09:18:13  
Staff ID Last Update: RSUCHAN  
Coord Source Type: 2  
Org Name Source: Rebecca Gorney  
Coord Coll Meth: I2  
Map Scale Code: B

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTL AIRPORT RADAR TOWER (Continued)**

**S110817550**

Source: TALES  
Site ID: 59556326  
Spatial ID: 53792781  
  
Program Id: 222056  
Lat/Long ID: 193876  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 37.96  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 50.71  
Collection Date: 04/28/2011 09:36:23  
Lat/Long Description: Not reported  
TMSP Added: 03/10/2011 14:03:09  
TMSP Last Update: 04/28/2011 09:36:23  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 59556326  
Spatial ID: 53792781

Staff Name:  
Program Id: 222056  
Staff Sequence ID: 5984  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:02  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 4114

Program Id: 222056  
Staff Sequence ID: 21242  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:18  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3451

**WIMN:**

Name:  
Address:

DULUTH INTL AIRPORT RADAR TOWER  
SEE LOCATION DESCRIPTION



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTL AIRPORT RADAR TOWER (Continued)**

**S110817550**

Address Description:	See location description
City,State,Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.843879700000002
Longitude:	-92.197420199999996
Item ID:	188827-AISI0000188827
AI ID:	188827
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	188827
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Investigation and Cleanup
Program List:	SR
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010202
USGS 8-digits Name:	Cloquet River
USGS 10-digits:	0401020205
USGS 12-digits:	040102020501
USGS 12-digits Name:	Wild Rice Lake Reservoir
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/25/2016
Timestamp of Creation:	10/16/2007
User Name of Creator:	DELTA_M_R2
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	59556327
Activity:	Petroleum Remediation, Leak Site
Activity List:	Petroleum Remediation, Leak Site
MPCA ID:	LS0009527
MPCA List:	LS0009527
Program List:	Investigation and Cleanup
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/188827">https://webapp.pca.state.mn.us/wimn/site/188827</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DULUTH INTL AIRPORT RADAR TOWER (Continued)**

**S110817550**

Latitude: 46.84387972  
 Longitude: -92.19742024  
 Activity: Leak Site  
 MPCA ID: 9527  
 Major Watershed: Cloquet River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Inactive

**52**  
**West**  
**1/4-1/2**  
**0.379 mi.**  
**2000 ft.**

**STATE HQ 1ST BN 94TH ARMOR**  
**5015 AIR PARK BLVD**  
**DULUTH, MN 55811**

**MN WIMN S110233675**  
**N/A**

**Relative:**  
**Lower**

WIMN:

**Actual:**  
**1414 ft.**

Name: STATE HQ 1ST BN 94TH ARMOR  
 Address: 5015 AIR PARK BLVD  
 Address Description: 5015 Air Park Blvd  
 City,State,Zip: DULUTH, MN 55811  
 Status: N  
 Latitude: 46.837257970000003  
 Longitude: -92.206490310000007  
 Item ID: 26386-AISI0000026386  
 AI ID: 26386  
 Document ID: 0  
 Subject Item Type Code: CON  
 Subject Item Category Code: AISI  
 Subject Item ID: 26386  
 Subject Item Category Description: Agency Interest  
 Subject Item Type Description: Conventional Site  
 Description: Not reported  
 Subject Item Designation: Not reported  
 MPCA Program: Hazardous Waste  
 Program List: HW  
 City, Township or Unorganized code: 239456  
 City, Township or Unorganized Name: Duluth  
 Congressional District Code: 8  
 House District: 3B  
 Senate District: 3  
 USGS 8-digits: 04010201  
 USGS 8-digits Name: St. Louis River  
 USGS 10-digits: 0401020116  
 USGS 12-digits: 040102011604  
 USGS 12-digits Name: Saint Louis River  
 MDH Drinking Water Management Code: Not reported  
 MDH Drinking Water Management Name: Not reported  
 Location Description: Not reported  
 Township, Range, Direction, Section QQ: Not reported  
 PLS Township: Not reported  
 Range: Not reported  
 Range Direction: Not reported  
 Section: Not reported  
 Quarters: Not reported  
 Collection Method Code: A1  
 Method Description: Address Matching House Number  
 Ref Code: GEN  
 Ref Description: General Location

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**STATE HQ 1ST BN 94TH ARMOR (Continued)**

**S110233675**

Location Verified Flag:	N
Collection Date:	09/28/2015
Timestamp of Creation:	07/26/1999
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	07/27/1999
The Delta Spatial ID:	18191
Activity:	Hazardous Waste
Activity List:	Hazardous Waste
MPCA ID:	707760716
MPCA List:	707760716
Program List:	Hazardous Waste
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/26386">https://webapp.pca.state.mn.us/wimn/site/26386</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.83725738
Longitude:	-92.20648955
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	707760716
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive

**J53**  
**West**  
**1/4-1/2**  
**0.389 mi.**  
**2054 ft.**

**SITE 4 REMEDIAL ACTION - 148TH FW MN ANG**  
**AIRPORT RD**  
**DULUTH, MN 55811**  
**Site 1 of 4 in cluster J**

**MN WIMN S116689510**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1412 ft.**

WIMN:	
Name:	SITE 4 REMEDIAL ACTION - 148TH FW MN ANG
Address:	AIRPORT RD
Address Description:	Airport rd
City,State,Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.838510999999997
Longitude:	-92.206677999999997
Item ID:	144465-AISI0000144465
AI ID:	144465
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	144465
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Stormwater
Program List:	ST
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SITE 4 REMEDIAL ACTION - 148TH FW MN ANG (Continued)**

**S116689510**

USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	G8
Method Description:	GPS - Other
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	05/21/2014
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	68765572
Activity:	Construction Stormwater
Activity List:	Construction Stormwater
MPCA ID:	C00038142
MPCA List:	C00038142
Program List:	Stormwater
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/144465">https://webapp.pca.state.mn.us/wimn/site/144465</a>

WIMN Detail as of Aug 2016:	
Legislative District:	03B
Latitude:	46.83851099
Longitude:	-92.20667799
Activity:	Construction Stormwater Permit
MPCA ID:	C00038142
Major Watershed:	St. Louis River
Coordinate Collection Method:	GPS - Other
Status:	Active

**54**  
 North  
 1/4-1/2  
 0.389 mi.  
 2055 ft.

**NORTH BUSINESS DEVELOPMENT AREA**  
**ADDRESS UNKNOWN**  
**DULUTH, MN 55811**

**MN WIMN S110437579**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1419 ft.**

WIMN:  
 Name: NORTH BUSINESS DEVELOPMENT AREA  
 Address: ADDRESS UNKNOWN  
 Address Description: Address Unknown  
 City,State,Zip: DULUTH, MN 55811  
 Status: N  
 Latitude: 46.844999999999999

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NORTH BUSINESS DEVELOPMENT AREA (Continued)**

**S110437579**

Longitude: -92.19299999999998  
Item ID: 129823-AISI0000129823  
AI ID: 129823  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 129823  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Stormwater  
Program List: ST  
City, Township or Unorganized code: 239456  
City, Township or Unorganized Name: Duluth  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010202  
USGS 8-digits Name: Cloquet River  
USGS 10-digits: 0401020205  
USGS 12-digits: 040102020501  
USGS 12-digits Name: Wild Rice Lake Reservoir  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DW  
Method Description: Digitized - Web Map Google / Yahoo / Microsoft  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 09/27/2015  
Timestamp of Creation: 11/17/2009  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 04/26/2016  
User Name of Last Update: spatial\_  
Status Date: 11/23/2011  
The Delta Spatial ID: 57214815  
Activity: Construction Stormwater  
Activity List: Construction Stormwater  
MPCA ID: C00029017  
MPCA List: C00029017  
Program List: Stormwater  
Classification: Not reported  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/129823>

WIMN Detail as of Aug 2016:  
Legislative District: 3B  
Latitude: 46.84499999  
Longitude: -92.19299999  
Activity: Construction Stormwater Permit  
MPCA ID: C00029017

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NORTH BUSINESS DEVELOPMENT AREA (Continued)**

**S110437579**

Major Watershed: Cloquet River  
 Coordinate Collection Method: Digitized - Web Map Google / Yahoo / Microsoft  
 Status: Inactive

**J55**  
**West**  
**1/4-1/2**  
**0.408 mi.**  
**2156 ft.**

**IRP SITE 4**  
**FORMER 148TH FW ANG POL, AIRPORT ROAD**  
**DULUTH, MN 55811**

**MN WIMN S120198701**  
**N/A**

**Site 2 of 4 in cluster J**

**Relative:**  
**Lower**  
**Actual:**  
**1412 ft.**

WIMN:  
 Name: IRP SITE 4  
 Address: FORMER 148TH FW ANG POL, AIRPORT ROAD  
 Address Description: Former 148th FW ANG POL, Airport Road  
 City, State, Zip: DULUTH, MN 55811  
 Status: Y  
 Latitude: 46.8384  
 Longitude: -92.20709999999997  
 Item ID: 216265-AISI0000216265  
 AI ID: 216265  
 Document ID: 0  
 Subject Item Type Code: CON  
 Subject Item Category Code: AISI  
 Subject Item ID: 216265  
 Subject Item Category Description: Agency Interest  
 Subject Item Type Description: Conventional Site  
 Description: Not reported  
 Subject Item Designation: Not reported  
 MPCA Program: Stormwater  
 Program List: ST  
 City, Township or Unorganized code: 239456  
 City, Township or Unorganized Name: Duluth  
 Congressional District Code: 8  
 House District: 3B  
 Senate District: 3  
 USGS 8-digits: 04010201  
 USGS 8-digits Name: St. Louis River  
 USGS 10-digits: 0401020116  
 USGS 12-digits: 040102011604  
 USGS 12-digits Name: Saint Louis River  
 MDH Drinking Water Management Code: Not reported  
 MDH Drinking Water Management Name: Not reported  
 Location Description: Former 148th Fighter Wing POL  
 Township, Range, Direction, Section QQ: Not reported  
 PLS Township: Not reported  
 Range: Not reported  
 Range Direction: Not reported  
 Section: Not reported  
 Quarters: Not reported  
 Collection Method Code: DM  
 Method Description: Digitized - MPCA internal map  
 Ref Code: CEN  
 Ref Description: Center of Feature Represented  
 Location Verified Flag: N  
 Collection Date: 04/21/2017  
 Timestamp of Creation: 04/21/2017  
 User Name of Creator: RSP

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**IRP SITE 4 (Continued)**

**S120198701**

Timestamp of Last Update:	09/20/2018
User Name of Last Update:	ceidem
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Construction Stormwater
Activity List:	Construction Stormwater
MPCA ID:	C00045935
MPCA List:	C00045935
Program List:	Stormwater
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/216265">https://webapp.pca.state.mn.us/wimn/site/216265</a>

**K56**  
**WSW**  
 1/4-1/2  
 0.409 mi.  
 2160 ft.

**NORTHERN TOOL & EQUIPMENT - DULUTH**  
**4969 MILLER TRUNK HWY**  
**HERMANTOWN, MN 55811**

**MN ENF** **S121324202**  
**MN WIMN** **N/A**

**Site 1 of 2 in cluster K**

**Relative:**  
**Lower**

MN Enforcement Log :

**Actual:**  
**1413 ft.**

Name:	NORTHERN TOOL & EQUIPMENT - DULUTH
Address:	4969 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN
Facility ID:	MNR000070664
Violation:	Not reported
Determined Date:	Not reported
Determined By:	Not reported
Responsible Agency:	Not reported
RTC Date:	Not reported
Enforcement Sequence:	Not reported
Effective End Date:	07/10/2019
Enforcement Type:	Notice of Violation
Lead Agency:	Not reported
Sequence:	Not reported
AI ID:	36893
Activity ID:	NON20190001
Public Flag:	Y
Latitude:	46.8327792
Longitude:	-92.20389717
Coord Collect Meth Desc:	Address Matching House Number
Mailing Address1:	2800 Southcross Dr W
Mailing City Name:	Burnsville
Mailing State Code:	MN
Mailing Zip Code:	55306
Responsible Party:	Northern Tool & Equipment (Burnsville, MN)
Zero Date:	03/15/2019
Case Closed:	7/10/2019
Case Lead:	Jason Hawksford
Attorney Assigned:	Not reported
Lead Program:	Hazardous Waste
Multimedia:	N
Multimedia Desc:	N
SEP Amount:	\$0
Calculated:	Not reported
Citation:	Not reported
Civil:	Not reported
Forgivable:	Not reported
Incurred - Administrative:	Not reported
Incurred - Civil:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NORTHERN TOOL & EQUIPMENT - DULUTH (Continued)**

**S121324202**

Interest:	Not reported
Nonforgivable:	Not reported
Not Abated:	Not reported
SEP Abandonment:	Not reported
Grand Total:	Not reported

WIMN:

Name:	NORTHERN TOOL & EQUIPMENT - DULUTH
Address:	4969 MILLER TRUNK HWY
Address Description:	4969 Miller Trunk Hwy
City,State,Zip:	HERMANTOWN, MN 55811-1491
Status:	Y
Latitude:	46.832779199999997
Longitude:	-92.203897170000005
Item ID:	36893-AISI0000036893
AI ID:	36893
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	36893
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	01/31/2020
Timestamp of Creation:	01/13/2000
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	03/30/2020
User Name of Last Update:	swright1
Status Date:	Not reported
The Delta Spatial ID:	50112



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NORTHERN TOOL & EQUIPMENT - DULUTH (Continued)**

**S121324202**

Activity:	Hazardous Waste, Very small quantity generator
Activity List:	Hazardous Waste, Very small quantity generator
MPCA ID:	MNR000070664
MPCA List:	MNR000070664
Program List:	Hazardous Waste
Classification:	Other Commercial Equipment Merchant Wholesalers
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/36893">https://webapp.pca.state.mn.us/wimn/site/36893</a>

**L57**  
**WSW**  
**1/4-1/2**  
**0.409 mi.**  
**2162 ft.**

**CURTIS OIL**  
**4985 MILLER TRUNK HIGHWAY**  
**HERMANTOWN, MN 55811**

**MN TIER 2** **S110594551**  
**MN WIMN** **N/A**

**Site 1 of 5 in cluster L**

**Relative:**  
**Lower**  
**Actual:**  
**1414 ft.**

<b>TIER 2:</b>	
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Year:	2011
Facility Status:	ACTIVE
Facility Phone:	Not reported
Facility Email:	Not reported
Facility Web:	Not reported
Facility MNCP:	Not reported
SIC:	59,845,983
NAICS:	424710
Dunn Brad Num:	Not reported
Contact Type:	Not reported
Time Created:	Not reported
Signed By:	Not reported
Title:	Not reported
Signed Date:	Not reported
Attach Site Plan:	Not reported
Attach Coord Abbr:	Not reported
Attach Safeguard Info:	Not reported
Attach ERP:	Not reported
Hardcopy Attachments:	Not reported
Extension Site Plan:	Not reported
Extension Coord Abbr:	Not reported
Extension Safeguard Info:	Not reported
Extension ERP:	Not reported
Last Updated ERP:	Not reported
Last Tested ERP:	Not reported
Last Reviewed ERP:	Not reported
VZone Primary:	Not reported
VZone Secondary:	Not reported
Modified Date:	Not reported
FIPS County:	Not reported
Latitude/Longitude:	/
User Name:	Not reported
TRIFID:	Not reported
CMFCL Record ID:	Not reported
SEPC Approved Date ERP:	Not reported
Client System ID:	692300017
Own Country:	Not reported
Site Plan:	Not reported
Confidential Location:	Not reported
Status 302:	UNKNOWN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Status 312:	UNKNOWN
Emergency Contact Name1:	Jim Curtis
Emergency Contact Name2:	Jeff Downs
Emergency Contact Name3:	Not reported
Emergency Contact Name4:	Not reported
Emergency Contact 24hr Phone1:	2187298241
Emergency Contact 24hr Phone2:	2187298241
Emergency Contact 24hr Phone3:	Not reported
Emergency Contact 24hr Phone4:	Not reported
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HWY
City,State,Zip:	HERMANTOWN, MN 55811
Facility Id:	14823
CAS Number:	74986
Chemical Id:	39665
Chemical Name:	PROPANE
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	No
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	5
Avg Daily Amt Code:	5
Storage Container Type:	A
Storage Pressure Class:	2
Storage Temperature Class:	6
Storage Location:	4985 MILLER TRUNK HWY HERMANTOWN MN
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 14823  
CAS Number: 68476302  
Chemical Id: 39666  
Chemical Name: FUEL OIL, [NO. 2]  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 5  
Avg Daily Amt Code: 5  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: 4985 MILLER TRUNK HWY HERMANTOWN MN  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 14823  
CAS Number: 8008206  
Chemical Id: 39667  
Chemical Name: FUEL OIL, [NO. 1]  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: 4985 MILLER TRUNK HWY HERMANTOWN MN  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 14823  
CAS Number: 8006619  
Chemical Id: 39668  
Chemical Name: GASOLINE  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: 4995 MILLER TRUNK HWY HERMANTOWN MN  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Facility Id: 14823  
CAS Number: N/A  
Chemical Id: 39669  
Chemical Name: DIESEL FUEL  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 4  
Avg Daily Amt Code: 4  
Storage Container Type: A  
Storage Pressure Class: 1  
Storage Temperature Class: 4  
Storage Location: 4985 MILLER TRUNK HWY HERMANTOWN MN  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 14823  
CAS Number: 68476302  
Chemical Id: Not reported  
Chemical Name: FUEL OIL, [NO. 2]  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Max Daily Amt Code:	10
Avg Daily Amt Code:	10
Storage Container Type:	Above ground tank
Storage Pressure Class:	Ambient pressure
Storage Temperature Class:	Ambient temperature
Storage Location:	Not reported
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported
Facility Id:	14823
CAS Number:	74986
Chemical Id:	Not reported
Chemical Name:	PROPANE
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	No
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	10
Avg Daily Amt Code:	10
Storage Container Type:	Above ground tank
Storage Pressure Class:	Greater than ambient pressure
Storage Temperature Class:	Less than ambient temperature but not cryogenic
Storage Location:	Not reported
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 14823  
CAS Number: 8006619  
Chemical Id: Not reported  
Chemical Name: GASOLINE  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 9  
Avg Daily Amt Code: 7  
Storage Container Type: Above ground tank  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 14823  
CAS Number: 8008206  
Chemical Id: Not reported  
Chemical Name: FUEL OIL, [NO. 1]  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: No  
Is Containing EHS: No  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 9  
Avg Daily Amt Code: 7  
Storage Container Type: Above ground tank  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported

Facility Id:	14823
CAS Number:	N/A
Chemical Id:	Not reported
Chemical Name:	DIESEL FUEL
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	No
Is Containing EHS:	No
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	9
Avg Daily Amt Code:	7
Storage Container Type:	Above ground tank
Storage Pressure Class:	Ambient pressure
Storage Temperature Class:	Ambient temperature
Storage Location:	Not reported
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

Is Specific target organ toxicity: Not reported

[Click this hyperlink](#) while viewing on your computer to access 38 additional MN\_TIER2: record(s) in the EDR Site Report.

WIMN:

Name:	CURTIS OIL
Address:	4985 MILLER TRUNK HIGHWAY
Address Description:	4985 Miller Trunk Highway
City,State,Zip:	HERMANTOWN, MN 55811
Status:	N
Latitude:	46.832568700000003
Longitude:	-92.203558799999996
Item ID:	136596-AISI0000136596
AI ID:	136596
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	136596
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	08/03/2010
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	05/31/2014

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CURTIS OIL (Continued)**

**S110594551**

The Delta Spatial ID: 58347662  
 Activity: Hazardous Waste  
 Activity List: Hazardous Waste  
 MPCA ID: MNS000159103  
 MPCA List: MNS000159103  
 Program List: Hazardous Waste  
 Classification: Fuel Dealers  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/136596>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
 Latitude: 46.83256875  
 Longitude: -92.20355886  
 Activity: Hazardous Waste, Small to Minimal QG  
 MPCA ID: MNS000159103  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Address Matching House Number  
 Status: Inactive

**L58**  
**WSW**  
**1/4-1/2**  
**0.411 mi.**  
**2169 ft.**

**CURTIS CONVENIENCE STORE**  
**4991 MILLER TRUNK HIGHWAY**  
**HERMANTOWN, MN 55811**

Site 2 of 5 in cluster L

**MN LUST** **U000275693**  
**MN UST** **N/A**  
**MN SRS**  
**MN ENF**  
**MN Financial Assurance**  
**MN VAPOR**  
**MN WIMN**

**Relative:**  
**Lower**

**Actual:**  
**1415 ft.**

LUST:

Name: CURTIS CONVENIENCE STORE  
 Address: 4991 MILLER TRUNK HIGHWAY  
 City,State,Zip: HERMANTOWN, MN 55811  
 Item ID: 110983-AREA0000000002  
 MNPCA ID: Not reported  
 AI ID: 110983  
 AI Name: Curtis Convenience Store  
 Site Type: Leak Site  
 Hydro: Victor Henao (former)  
 Project Manager: Roberta Wirth-Feeney (former), Ryan Lundgren (former)  
 Latitude: 46.83451277  
 Longitude: -92.20604863  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/110983>  
 Leak Discovered: 08/08/2017  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Curtis Oil Inc  
 Site Closed: 06/20/2019  
 Owner Address: 4985 Miller Trunk Highway  
 Owner City: Duluth  
 Owner State: MN  
 Owner ZIP: 55811  
 SI Type: Underground Storage Tank System  
 Leak Reported: 08/09/2017

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Name: MILLER TRUNK FOOD N FUEL  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Item ID: 110983-AREA0000000001  
MNPCA ID: 223736  
AI ID: 110983  
AI Name: Curtis Convenience Store  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83444633  
Longitude: -92.20596039  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/110983>  
Leak Discovered: 05/25/1998  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: Curtis Oil Inc  
Site Closed: 09/14/1998  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55811  
SI Type: Underground Storage Tank System  
Leak Reported: 05/25/1998

0816:  
Program IN: 223736  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 11321  
Township Name: Whiteface Reservoir  
Addr ID: 193909  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 09/01/1999 15:19:53  
Interest End Date: 11/30/2006 07:11:45  
Source: CORE  
Site ID: 217956  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: Not reported  
Cubic Yards Excavated: Not reported  
Cond Closure Date: Not reported  
Complete Site Closure Date: 09/14/1998 00:00:00  
Contaminated Soils Remaining: U  
Enforcement Action Begin Date: 06/04/1998  
Last Trust Eligible: Y  
Offsite Contamination: U

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Reimbursement Awarded: N  
Release Discovered Date: 05/25/1998  
Leak Reported Date: 05/25/1998  
Std Letter Response Date: 06/25/1998  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:51  
TMSP Last Update: 04/07/2014 14:07:25  
Staff ID Last Update: LKANIA  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

**GW Info:**

MN PCA ID: 223736  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: Not reported  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:35  
TMSP Last Update: 11/04/2003 12:57:08  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 223736  
Prod Released Sequence Id: 35828  
Leak Product: 15  
Tmsp Added: 03/31/2003 15:46:56  
Tmsp Last\_updt: 03/31/2003 15:46:56

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Staff Id Last Updt: AMUSCH

UST:

Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000001-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000001  
SI Type: Underground Storage Tank System  
SI Design: 11  
SI Description: 2,000 gal/Gasoline/Removed  
Compartment Number: 1  
Substance: Gasoline  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1986-11-15 00:00:00  
Material: STI-P3  
Status Change Date: 1999-07-14 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 2000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000002-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000002  
SI Type: Underground Storage Tank System  
SI Design: 7  
SI Description: 8,000 gal/Gas/Removed  
Compartment Number: 1  
Substance: E-10 - 10% ethanol & 90% gas  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1986-09-22 00:00:00  
Material: STI-P3  
Status Change Date: 2017-08-08 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 8000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000003-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000003  
SI Type: Underground Storage Tank System  
SI Design: 6  
SI Description: 2,000 gal/Fuel Oil/Removed  
Compartment Number: 1  
Substance: Fuel Oil  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1900-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1900-01-01 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 2000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000004-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000004  
SI Type: Underground Storage Tank System  
SI Design: 4  
SI Description: 10,000 gal/Diesel/Removed  
Compartment Number: 1  
Substance: Diesel  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1982-10-01 00:00:00  
Material: STI-P3  
Status Change Date: 1999-07-14 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 10000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000005-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000005  
SI Type: Underground Storage Tank System  
SI Design: 12  
SI Description: 1,000 gal/Kerosene/Removed  
Compartment Number: 1  
Substance: Kerosene  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1986-11-15 00:00:00  
Material: STI-P3  
Status Change Date: 1999-07-14 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 1000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000006-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000006  
SI Type: Underground Storage Tank System  
SI Design: 3  
SI Description: 4,000 gal/Gasoline/Removed  
Compartment Number: 1  
Substance: Gasoline  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1900-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1900-01-01 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 4000  
Longitude: -92.20541711  
Latitude: 46.83483993

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000007-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000007  
SI Type: Underground Storage Tank System  
SI Design: 5  
SI Description: 4,000 gal/Diesel/Removed  
Compartment Number: 1  
Substance: Diesel  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1900-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1900-01-01 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 4000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000008-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000008  
SI Type: Underground Storage Tank System  
SI Design: 1  
SI Description: 4,000 gal/Gasoline/Removed  
Compartment Number: 1  
Substance: Gasoline  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1900-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1900-01-01 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 4000  
Longitude: -92.20541711

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI000000009-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI000000009  
SI Type: Underground Storage Tank System  
SI Design: 8  
SI Description: 8,000 gal/Gas/Removed  
Compartment Number: 1  
Substance: E-10 - 10% ethanol & 90% gas  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1986-09-22 00:00:00  
Material: STI-P3  
Status Change Date: 2017-08-08 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 8000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI000000010-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI000000010  
SI Type: Underground Storage Tank System  
SI Design: 9  
SI Description: 4,000 gal/Gas/Removed  
Compartment Number: 1  
Substance: E-10 - 10% ethanol & 90% gas  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1986-11-15 00:00:00  
Material: STI-P3  
Status Change Date: 2017-08-08 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 4000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000011-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000011  
SI Type: Underground Storage Tank System  
SI Design: 2  
SI Description: 4,000 gal/Gasoline/Removed  
Compartment Number: 1  
Substance: Gasoline  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1900-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1900-01-01 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 4000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000012-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000012  
SI Type: Underground Storage Tank System  
SI Design: 10  
SI Description: 4,000 gal/Diesel/Removed  
Compartment Number: 1  
Substance: Diesel  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1986-11-15 00:00:00  
Material: STI-P3  
Status Change Date: 2017-08-08 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Capacity Gallons: 4000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000013-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000013  
SI Type: Underground Storage Tank System  
SI Design: 13  
SI Description: 12,000 gal/Diesel/Removed  
Compartment Number: 1  
Substance: Diesel  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1999-07-15 00:00:00  
Material: STI-P3  
Status Change Date: 2017-08-08 00:00:00  
Tank Status: Removed  
Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 12000  
Longitude: Not reported  
Latitude: Not reported  
Coord Collection Method: Not reported  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>  
Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Item Compartment ID: 110983-EQUI0000000014-1  
AI ID: 110983  
Tank Site ID: TS0005743  
Item ID: 110983-EQUI0000000014  
SI Type: Underground Storage Tank System  
SI Design: 14  
SI Description: 2,000 gal/Diesel/Removed  
Compartment Number: 1  
Substance: Diesel  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1999-07-15 00:00:00  
Material: STI-P3  
Status Change Date: 2017-08-08 00:00:00  
Tank Status: Removed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Tanks Contractor: Twin Ports Environmental/Construction  
Capacity Gallons: 2000  
Longitude: -92.20541711  
Latitude: 46.83483993  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Inc  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55811  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0005743>

**SRS:**

Name: MILLER TRUNK FOOD N FUEL  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: LS0011321  
Item ID: 110983-AREA0000000001  
AI ID: 110983  
AI Name: Curtis Convenience Store  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83444633000  
Longitude: -92.20596039000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/110983>  
Leak Discovered: 05/25/1998  
Leak Reported: 05/25/1998  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 09/14/1998  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19980001  
Act Desc: Leak Site Investigation  
Status: Closed

Name: HERMANTOWN SUPER AMERICA  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN  
Facility ID: SA0000632

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Item ID: 110983-AREA0000000003  
AI ID: 110983  
AI Name: Curtis Convenience Store  
Facility Type: SITE  
Hydro: Not reported  
Project Manager: Site Assessment Coordinator (current)  
Latitude: 46.83451644000  
Longitude: -92.20604863000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/110983>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: 02/04/2019  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: Not reported  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20200001  
Act Desc: Site Assessment Investigation  
Status: Active / Existing

Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: LS0020519  
Item ID: 110983-AREA0000000002  
AI ID: 110983  
AI Name: Curtis Convenience Store  
Facility Type: LEAK  
Hydro: Victor Henao (former)  
Project Manager: Roberta Wirth-Feeney (former), Ryan Lundgren (former)  
Latitude: 46.83451277000  
Longitude: -92.20604863000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/110983>  
Leak Discovered: 08/08/2017  
Leak Reported: 08/09/2017  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Site Deleted from NPL: Not reported  
Site Closed: 06/20/2019  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20170001  
Act Desc: Leak Site Investigation  
Status: Closed

**MN Enforcement Log :**

Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN  
Facility ID: TS0005743  
Violation: Not reported  
Determined Date: Not reported  
Determined By: Not reported  
Responsible Agency: Not reported  
RTC Date: Not reported  
Enforcement Sequence: Not reported  
Effective End Date: 03/30/2009  
Enforcement Type: Citation Warning  
Lead Agency: Not reported  
Sequence: Not reported  
AI ID: 110983  
Activity ID: NON20090001  
Public Flag: Y  
Latitude: 46.83451644  
Longitude: -92.20604863  
Coord Collect Meth Desc: Digitized - MPCA internal map  
Mailing Address1: 4991 Miller Trunk Highway  
Mailing City Name: Hermantown  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Not reported  
Zero Date: 03/30/2009  
Case Closed: Not reported  
Case Lead: Nathan Blasing  
Attorney Assigned: Not reported  
Lead Program: Underground Tanks  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN  
Facility ID: TS0005743  
Violation: Not reported  
Determined Date: Not reported  
Determined By: Not reported  
Responsible Agency: Not reported  
RTC Date: Not reported  
Enforcement Sequence: Not reported  
Effective End Date: 10/27/2014  
Enforcement Type: Citation Warning  
Lead Agency: Not reported  
Sequence: Not reported  
AI ID: 110983  
Activity ID: NON20140001  
Public Flag: Y  
Latitude: 46.83451644  
Longitude: -92.20604863  
Coord Collect Meth Desc: Digitized - MPCA internal map  
Mailing Address1: 4991 Miller Trunk Highway  
Mailing City Name: Hermantown  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: Curtis Oil (Duluth, MN); Russ Ward (Hermantown, MN)  
Zero Date: 10/10/2014  
Case Closed: 8/17/2015  
Case Lead: Jeffery Brandon  
Attorney Assigned: Not reported  
Lead Program: Underground Tanks  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

MN Financial Assurance 1:  
PROGRAM ID: 195114  
Township Name: Whiteface Reservoir  
Region: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Interest Type: Tank site  
ADDR ID: 193909  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 5743  
Interest Start Date: 07/23/1992  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 08/30/2006  
TMSP Last Update: 09/28/2006 07:30:52  
Staff ID Last Update: JHENRY  
Source: CORE  
Source ID: 217956  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: UST AUDIT RECEIVED ON 2/6/96.\n\nUST AUDIT RECEIVED ON 9/8/98.

PROGRAM ID: 223736  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 193909  
Interest Telephone: Not reported  
Preferred ID: 11321  
Interest Start Date: 09/01/1999  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/30/2006 07:11:45  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 223736  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 193909  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 11321  
Interest Start Date: 09/01/1999  
Interest End Date: 11/30/2006  
Activity Flag: N  
TMSP Added: 11/30/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 217956  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 195114  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 04/25/2010 15:39:30  
TMSP Last Update: 04/25/2010 15:39:30  
Staff ID Last Update: JBRANDO  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 217956  
Spatial ID: 51379886

Program Id: 195114  
Lat/Long ID: 139915  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 3.98  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 21.43  
Collection Date: 06/03/2008 10:12:42  
Lat/Long Description: Not reported  
TMSP Added: 06/03/2008 10:12:07  
TMSP Last Update: 06/03/2008 10:12:42  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 217956  
Spatial ID: 51379886

Tab Site:  
Program Id: 195114  
Facility Code: 34  
Above or Under Code: 2  
Indian Reservation: N  
Ust Registration Date: 04/24/1986 00:00:00  
Ast Registration Date: Not reported  
TMSP Added: 07/23/1992 19:11:05  
TMSP Last Update: 10/17/2011 14:16:38  
Staff ID Last Update: JBRANDO

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Max Monthly Gallons: Not reported  
Vapor Recovery Installed: N  
Vapor Notif Required: U

Latitude Longitude:

Program Id: 223736  
Lat/Long ID: 9486  
Latitude Degrees: 46  
Latitude Minutes: 49  
Latitude Seconds: 44.7279  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 52.7792  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:12  
TMSP Last Update: 06/03/2008 10:11:20  
Staff ID Last Update: SCHILD  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 217956  
Spatial ID: 51833907

Program Id: 223736  
Lat/Long ID: 139915  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 3.98  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 21.43  
Collection Date: 06/03/2008 10:12:42  
Lat/Long Description: Not reported  
TMSP Added: 06/03/2008 10:12:07  
TMSP Last Update: 06/03/2008 10:12:42  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 217956  
Spatial ID: 51833907

Staff Name:

Program Id: 223736  
Staff Sequence ID: 12452  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:09  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: SPS  
Staff ID Number: 3297

Program Id: 223736  
Staff Sequence ID: 22836  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:19  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

Program Id: 223736  
Staff Sequence ID: 7541  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:04  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3433

**VAPOR:**

Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN  
Site ID: LS0020519  
Delta Site ID: 110983  
WIMN Link: <https://webapp.pca.state.mn.us/wimn/site/110983>  
AI Name: Curtis Convenience Store  
Vapor Concern at Site: Other sites where vapor exceeded standards  
Vapor Reassessment: No  
Item ID: 110983-AREA0000000002  
Site Type: Leak Site  
Method Desc: Digitized - MPCA internal map  
Latitude: 46.83451277  
Longitude: -92.20604863

**WIMN:**

Name: CURTIS CONVENIENCE STORE  
Address: 4991 MILLER TRUNK HIGHWAY  
Address Description: 4991 Miller Trunk Highway  
City,State,Zip: HERMANTOWN, MN 55811-1491  
Status: Y  
Latitude: 46.834516440000002

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS CONVENIENCE STORE (Continued)**

**U000275693**

Longitude:	-92.206048629999998
Item ID:	110983-AISI0000110983
AI ID:	110983
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	110983
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Multiple Programs
Program List:	SR; TL
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	05015203bb
PLS Township:	050
Range:	15
Range Direction:	W
Section:	03
Quarters:	bb
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	CEN
Ref Description:	Center of Feature Represented
Location Verified Flag:	Y
Collection Date:	03/06/2020
Timestamp of Creation:	08/30/2006
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	03/06/2020
User Name of Last Update:	vsetter
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Multiple Activities
Activity List:	Petroleum Remediation, Leak Site; Site Assessment; Underground Tanks
MPCA ID:	Multiple IDs
MPCA List:	LS0011321; LS0020519; SA0000632; TS0005743
Program List:	Investigation and Cleanup; Tanks
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/110983">https://webapp.pca.state.mn.us/wimn/site/110983</a>

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**L59**            **CURTIS OIL & TIRE**  
**WSW**         **4995 MILLER TRUNK HIGHWAY**  
**1/4-1/2**       **DULUTH, MN 55811**  
**0.412 mi.**  
**2178 ft.**       **Site 3 of 5 in cluster L**

**MN LAST**    **1000413744**  
**MN LUST**     **N/A**  
**MN UST**  
**MN SRS**  
**FINDS**  
**ECHO**  
**MN Financial Assurance**  
**MN WIMN**

**Relative:**  
**Lower**

**Actual:**  
**1415 ft.**

LAST:  
 Name: CURTIS OIL BULK FACILITY  
 Address: 4995 MILLER TRUNK HIGHWAY  
 City,State,Zip: HERMANTOWN, MN 55811  
 Item ID: 95144-AREA0000000005  
 AI ID: 95144  
 MN PCA ID: 221222  
 AI Name: Curtis Oil & Tire and Propane Co  
 Site Type: Leak Site  
 Hydro: Jim Pennino (former)  
 Project Manager: Gary Zarling (former)  
 Latitude: 46.83541275  
 Longitude: -92.20598652  
 Corrd Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/95144>  
 Leak Discovered: 08/16/1994  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Site Closed: 04/11/2011  
 Owner: Curtis Oil Company  
 Owner Address: 4985 Miller Trunk Highway  
 Owner City: Hermantown  
 Owner State: MN  
 Owner ZIP: 558110000  
 SI Type: Aboveground Storage Tank  
 Leak Reported: 08/07/1995

0816:  
 Program IN: 221222  
 Facility Address 2: Not reported  
 State Code: MN  
 Country Code: USA  
 Foreign State: Not reported  
 Foreign Zone: Not reported  
 Leak ID: 8660  
 Township Name: Not reported  
 Addr Id: 273298  
 Active Flag: N  
 Interest Type: LS  
 Interest Phone: NO CORE PI PH.  
 Interest Start Date: 11/13/1998 00:00:00  
 Interest End Date: 11/28/2006 07:33:39  
 Source: CORE  
 Site ID: 148802  
 Leak Site: 1  
 File Archive Box: Not reported  
 File Archive Lot: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Soil Digout Date:	Not reported
Cubic Yards Excavated:	Not reported
Cond Closure Date:	Not reported
Complete Site Closure Date:	04/11/2011 00:00:00
Contaminated Soils Remaining:	Y
Enforcement Action Begin Dt:	08/25/1995
Last Trust Eligible:	Y
Offsite Contamination:	N
Reimbursement Awarded:	N
Release Discovered Date:	08/16/1994
Leak Reported Date:	08/07/1995
Std Letter Response Date:	08/07/1995
Surface Water Impact:	N
Utility Project Flag:	N
TMSP Added:	12/04/1999 14:03:49
TMSP Last Update:	12/06/2012 14:28:35
Staff Id Last Update:	AVANCLE
Release From LAST:	Y
Release From LUST:	N
Tank Registration Status Code:	F
VPIC Application Date:	Not reported
VPIC Acres:	Not reported
Vapor Intrusion Checked Flag:	N
Soil Gas Data Collected Flag:	N
Soil Gas Action Level Flag:	Not reported
Sub Slab Sample Collected Flag:	Not reported
Indoor Air Collected Flag:	Not reported
Vapor Intrusion Action Flag:	Not reported
Vapor Intrusion Comments:	The area within 100 feet of the contaminant plume consists of bulk oil facilities and other petroleum activities.
Soil Gas Data Comments:	Not reported
Comments:	Not reported

Cleanact:

Leak Action Seq Id:	47021
Leak Action Code:	36
Product Recovered Gallons:	Not reported
Product Removed Gallons:	Not reported
Treated Water Gallons:	Not reported
Corrective Reason Code:	5
MN PCA ID:	221222
Leak Action Approval Date:	08/07/1995 00:00:00
Leak Action Begin Date:	09/20/1995 00:00:00
Leak Action End Date:	09/21/1995 00:00:00
TMSP Added:	10/15/2004 13:41:02
TMSP Last Update:	02/25/2009 09:40:48
Staff Id Last Update:	GZARLIN
Leak Action Seq Id:	47022
Leak Action Code:	36
Product Recovered Gallons:	Not reported
Product Removed Gallons:	Not reported
Treated Water Gallons:	Not reported
Corrective Reason Code:	4
MN PCA ID:	221222
Leak Action Approval Date:	04/09/1999 00:00:00
Leak Action Begin Date:	08/10/1999 00:00:00



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Leak Action End Date: 09/01/1999 00:00:00  
TMSP Added: 10/15/2004 13:41:02  
TMSP Last Update: 10/15/2004 13:41:02  
Staff Id Last Update: JPENNIN

GW Info:

MN PCA ID: 221222  
Dw Supply Contam: Not reported  
Free Product Observed: Y  
Free Product Thickness: 5  
Ground Water Contam: Y  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:33  
TMSP Last Update: 04/11/2011 15:08:35  
Staff Id Last Update: GZARLIN  
Mtbe Present Now: N  
Mtbe Present Historically: N  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: N  
Staff Id Ass: 3371  
PWS Well: N  
Prot Flag: N  
Sens Flag: N

Prodrel:

MN PCA ID: 221222  
Prod Released Sequence Id: 101617  
Leak Product: 5  
Tmsp Added: 06/27/2006 11:57:01  
Tmsp Last\_updt: 06/27/2006 11:57:01  
Staff Id Last Updt: JPENNIN

LUST:

Name: CURTIS OIL BULK FACILITY  
Address: 4995 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Item ID: 95144-AREA0000000005  
MNPCA ID: Not reported  
AI ID: 95144  
AI Name: Curtis Oil & Tire and Propane Co  
Site Type: Leak Site  
Hydro: Jim Pennino (former)  
Project Manager: Gary Zarling (former)  
Latitude: 46.83541275  
Longitude: -92.20598652  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/95144>

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

1000413744

Leak Discovered: 08/16/1994  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: Curtis Oil Company  
Site Closed: 04/11/2011  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Hermantown  
Owner State: MN  
Owner ZIP: 558110000  
SI Type: Underground Storage Tank System  
Leak Reported: 08/07/1995

UST:

Name: CURTIS OIL & TIRE AND PROPANE CO  
Address: 4995 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Item Compartment ID: 95144-EQUI0000000007-1  
AI ID: 95144  
Tank Site ID: TS0019949  
Item ID: 95144-EQUI0000000007  
SI Type: Underground Storage Tank System  
SI Design: 2  
SI Description: 2,000 gal/Used or waste oil/Removed  
Compartment Number: 1  
Substance: Used or waste oil  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1981-08-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 2013-08-06 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 2000  
Longitude: -92.20602237  
Latitude: 46.83523899  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Company  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Hermantown  
Owner State: MN  
Owner Zip: 558110000  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0019949>  
Name: CURTIS OIL & TIRE AND PROPANE CO  
Address: 4995 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Item Compartment ID: 95144-EQUI0000000008-1  
AI ID: 95144  
Tank Site ID: TS0019949  
Item ID: 95144-EQUI0000000008  
SI Type: Underground Storage Tank System  
SI Design: 1  
SI Description: 500 gal/Used or waste oil/Removed  
Compartment Number: 1  
Substance: Used or waste oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

1000413744

Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1987-06-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1998-06-01 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 500  
Longitude: -92.20602237  
Latitude: 46.83523899  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Company  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Hermantown  
Owner State: MN  
Owner Zip: 558110000  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0019949>  
Name: CURTIS OIL & TIRE AND PROPANE CO  
Address: 4995 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Item Compartment ID: 95144-EQUI0000000009-1  
AI ID: 95144  
Tank Site ID: TS0019949  
Item ID: 95144-EQUI0000000009  
SI Type: Underground Storage Tank System  
SI Design: 3  
SI Description: 1,000 gal/Gasoline/Removed  
Compartment Number: 1  
Substance: Gasoline  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1999-07-08 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1999-07-08 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 1000  
Longitude: -92.20602237  
Latitude: 46.83523899  
Coord Collection Method: GPS - Unknown  
Owner: Curtis Oil Company  
Owner Address: 4985 Miller Trunk Highway  
Owner City: Hermantown  
Owner State: MN  
Owner Zip: 558110000  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0019949>

**SRS:**

Name: CURTIS OIL BULK FACILITY  
Address: 4995 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: LS0008660  
Item ID: 95144-AREA0000000005  
AI ID: 95144  
AI Name: Curtis Oil & Tire and Propane Co  
Facility Type: LEAK  
Hydro: Jim Pennino (former)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Project Manager: Gary Zarling (former)  
Latitude: 46.83541275000  
Longitude: -92.20598652000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/95144>  
Leak Discovered: 08/16/1994  
Leak Reported: 08/07/1995  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 04/11/2011  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19950001  
Act Desc: Leak Site Investigation  
Status: Closed

**FINDS:**

Registry ID: 110003754036

[Click Here for FRS Facility Detail Report:](#)

**Environmental Interest/Information System:**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.  
STATE MASTER

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**ECHO:**

Envid: 1000413744  
Registry ID: 110003754036  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003754036>  
Name: CURTIS OIL & TIRE  
Address: 4995 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811

MN Financial Assurance 1:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

1000413744

PROGRAM ID: 206973  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site  
ADDR ID: 273298  
Interest Telephone: 2187298241  
Preferred ID: 19949  
Interest Start Date: 02/06/1997  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 02/06/1997  
TMSP Last Update: 09/13/2006 12:13:00  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 206973  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 273298  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 19949  
Interest Start Date: 02/06/1997  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 09/13/2006  
TMSP Last Update: 08/20/2015 17:08:02  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 148802  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 211916  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 273298  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 55873  
Interest Start Date: 07/02/1999  
Interest End Date: 09/14/2006  
Activity Flag: N  
TMSP Added: 09/14/2006  
TMSP Last Update: 08/20/2015 17:10:51  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 148802

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Tanks have been moved to \n\nsite 19949

PROGRAM ID: 221222  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 273298  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 8660  
Interest Start Date: 11/13/1998  
Interest End Date: 11/28/2006  
Activity Flag: N  
TMSP Added: 11/28/2006  
TMSP Last Update: 08/20/2015 17:08:24  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 148802  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 227397  
Township Name: Not reported  
Region: 1  
Interest Type: Composting Facility  
ADDR ID: 273298  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 10800  
Interest Start Date: 04/09/1999  
Interest End Date: 04/08/2011  
Activity Flag: N  
TMSP Added: 05/26/2015  
TMSP Last Update: 03/25/2016 16:20:56  
Staff ID Last Update: SFRYE  
Source: CORE  
Source ID: 148802  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 221222  
Lat/Long ID: 7244  
Latitude Degrees: 46  
Latitude Minutes: 49  
Latitude Seconds: 45.0359  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 53.2715

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:10  
TMSP Last Update: 03/17/2009 13:33:32  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 148802  
Spatial ID: 51827604

Program Id: 221222  
Lat/Long ID: 144600  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 4.26  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 21.06  
Collection Date: 03/14/2011 08:11:16  
Lat/Long Description: Not reported  
TMSP Added: 03/17/2009 11:54:34  
TMSP Last Update: 03/14/2011 08:11:16  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 148802  
Spatial ID: 51827604

Staff Name:  
Program Id: 221222  
Staff Sequence ID: 28562  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 04/23/2002 10:09:00  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: HYD  
Staff ID Number: 3371

Program Id: 221222  
Staff Sequence ID: 30133  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 07/31/2002 07:17:05  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3451

Latitude Longitude:  
Program Id: 206973  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Main Site Building  
TMSP Added: 04/25/2010 15:39:05  
TMSP Last Update: 03/14/2011 08:06:37  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 148802  
Spatial ID: 51427388

Program Id: 206973  
Lat/Long ID: 144600  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 4.26  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 21.06  
Collection Date: 03/14/2011 08:11:16  
Lat/Long Description: Not reported  
TMSP Added: 03/17/2009 11:54:34  
TMSP Last Update: 03/14/2011 08:11:16  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 148802  
Spatial ID: 51427388

Tab Site:  
Program Id: 206973  
Facility Code: 52  
Above or Under Code: 1  
Indian Reservation: N  
Ust Registration Date: 12/10/1996 00:00:00  
Ast Registration Date: 04/16/1997 00:00:00  
TMSP Added: 02/06/1997 07:36:32



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

TMSP Last Update: 09/06/2013 16:35:46  
Staff ID Last Update: JBRANDO  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

Latitude Longitude:  
Program Id: 211916  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 09/02/2010 15:38:32  
TMSP Last Update: 03/14/2011 08:21:42  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 148802  
Spatial ID: 51435508

Program Id: 211916  
Lat/Long ID: 144600  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 4.26  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 21.06  
Collection Date: 03/14/2011 08:11:16  
Lat/Long Description: Not reported  
TMSP Added: 03/17/2009 11:54:34  
TMSP Last Update: 03/14/2011 08:11:16  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 148802  
Spatial ID: 51435508

Tab Site:  
Program Id: 211916  
Facility Code: 34  
Above or Under Code: 1  
Indian Reservation: N  
Ust Registration Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Ast Registration Date: 04/16/1997 00:00:00  
TMSP Added: 07/02/1999 13:49:07  
TMSP Last Update: 05/23/2003 09:21:05  
Staff ID Last Update: SYS  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

Latitude Longitude:  
Program Id: 227397  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Main Site Building  
TMSP Added: 05/26/2015 14:29:43  
TMSP Last Update: 05/26/2015 14:29:43  
Staff ID Last Update: SFRYE  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 148802  
Spatial ID: 74185067

Program Id: 227397  
Lat/Long ID: 144600  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 4.26  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 21.06  
Collection Date: 03/14/2011 08:11:16  
Lat/Long Description: Not reported  
TMSP Added: 03/17/2009 11:54:34  
TMSP Last Update: 03/14/2011 08:11:16  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 148802  
Spatial ID: 74185067

**WIMN:**

Name: CURTIS OIL & TIRE AND PROPANE CO  
Address: 4995 MILLER TRUNK HIGHWAY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Address Description:	4995 Miller Trunk Highway
City,State,Zip:	HERMANTOWN, MN 55811
Status:	Y
Latitude:	46.8345178
Longitude:	-92.205850799999993
Item ID:	95144-AISI0000095144
AI ID:	95144
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	95144
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Multiple Programs
Program List:	SR; ST; TL
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	05015211b
PLS Township:	050
Range:	15
Range Direction:	W
Section:	11
Quarters:	b
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	08/25/2017
Timestamp of Creation:	10/28/2004
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	08/25/2017
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	97915
Activity:	Multiple Activities
Activity List:	Aboveground Tanks; Industrial Stormwater; Petroleum Remediation, Contaminated Soil Treatment Facility; Petroleum Remediation, Leak Site; Underground Tanks
MPCA ID:	Multiple IDs
MPCA List:	A00013762; CS0010800; LS0008660; TS0019949; TS0055873
Program List:	Investigation and Cleanup; Stormwater; Tanks
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/95144">https://webapp.pca.state.mn.us/wimn/site/95144</a>

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

WIMN Detail as of Aug 2016:

Legislative District: 3B  
Latitude: 46.83445977  
Longitude: -92.20595147  
Activity: Tank Site  
MPCA ID: 19949  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Active

Name: PRO TIRE  
Address: 4995 MILLER TRUNK HIGHWAY  
Address Description: 4995 Miller Trunk Highway  
City,State,Zip: HERMANTOWN, MN 55811  
Status: Y  
Latitude: 46.8345232  
Longitude: -92.20585069999999  
Item ID: 27945-AISI0000027945  
AI ID: 27945  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 27945  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Hazardous Waste  
Program List: HW  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DM  
Method Description: Digitized - MPCA internal map  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 04/07/2016  
Timestamp of Creation: 07/26/1999  
User Name of Creator: DELTA\_M\_R1

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CURTIS OIL & TIRE (Continued)**

**1000413744**

Timestamp of Last Update: 04/26/2016  
 User Name of Last Update: spatial\_  
 Status Date: Not reported  
 The Delta Spatial ID: 20096  
 Activity: Hazardous Waste  
 Activity List: Hazardous Waste  
 MPCA ID: MND022763486  
 MPCA List: MND022763486  
 Program List: Hazardous Waste  
 Classification: General Automotive Repair  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/27945>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
 Latitude: 46.83445977  
 Longitude: -92.20595147  
 Activity: Tank Site  
 MPCA ID: 19949  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Active

**L60**  
**WSW**  
**1/4-1/2**  
**0.413 mi.**  
**2181 ft.**

**FOOD N FUEL**  
**4997 MILLER TRUNK HIGHWAY**  
**DULUTH, MN 55811**  
**Site 4 of 5 in cluster L**

**MN LUST** **S106550016**  
**MN SRS** **N/A**  
**MN Financial Assurance**  
**MN WIMN**

**Relative:**  
**Lower**  
**Actual:**  
**1415 ft.**

**LUST:**  
 Name: FOOD N FUEL  
 Address: 4997 MILLER TRUNK HIGHWAY  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 190406-AREA0000000001  
 MNPCA ID: 221296  
 AI ID: 190406  
 AI Name: Food N Fuel  
 Site Type: Leak Site  
 Hydro: Jonathan Smith (no longer at MPCA)  
 Project Manager: Gary Zarling (former)  
 Latitude: 46.83450723  
 Longitude: -92.20585102  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/190406>  
 Leak Discovered: 08/30/1995  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Not reported  
 Site Closed: 02/07/2000  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported  
 SI Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD N FUEL (Continued)**

**S106550016**

Leak Reported: 08/30/1995  
0816:  
Program IN: 221296  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: None  
Leak ID: 8737  
Township Name: Stuntz  
Addr ID: 279809  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 11/15/1999 00:00:00  
Interest End Date: 03/29/2010 16:34:16  
Source: CORE  
Site ID: 57679832  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: Not reported  
Cubic Yards Excavated: 0  
Cond Closure Date: Not reported  
Complete Site Closure Date: 02/07/2000 00:00:00  
Contaminated Soils Remaining: Y  
Enforcement Action Begin Date: Not reported  
Last Trust Eligible: Y  
Offsite Contamination: N  
Reimbursement Awarded: N  
Release Discovered Date: 08/30/1995  
Leak Reported Date: 08/30/1995  
Std Letter Response Date: Not reported  
Surface Water Impact: N  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:49  
TMSP Last Update: 06/26/2014 07:39:15  
Staff ID Last Update: DBOETTC  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported  
  
GW Info:  
MN PCA ID: 221296  
Dw Supply Contam: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD N FUEL (Continued)**

**S106550016**

Free Product Observed: N  
Free Product Thickness: Not reported  
Ground Water Contam: S  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: 3  
TMSP Added: 12/04/1999 14:07:33  
TMSP Last Update: 11/04/2003 12:57:08  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 221296  
Prod Released Sequence Id: 322973  
Leak Product: 1  
Tmsp Added: 12/04/1999 14:04:34  
Tmsp Last\_updt: 05/04/2002 09:29:45  
Staff Id Last Updt: TANKS

MN PCA ID: 221296  
Prod Released Sequence Id: 325036  
Leak Product: 5  
Tmsp Added: 12/04/1999 14:04:37  
Tmsp Last\_updt: 05/04/2002 09:29:45  
Staff Id Last Updt: TANKS

**SRS:**

Name: FOOD N FUEL  
Address: 4997 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0008737  
Item ID: 190406-AREA0000000001  
AI ID: 190406  
AI Name: Food N Fuel  
Facility Type: LEAK  
Hydro: Jonathan Smith (no longer at MPCA)  
Project Manager: Gary Zarling (former)  
Latitude: 46.83450723000  
Longitude: -92.20585102000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/190406>  
Leak Discovered: 08/30/1995

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD N FUEL (Continued)**

**S106550016**

Leak Reported: 08/30/1995  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 02/07/2000  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19950001  
Act Desc: Leak Site Investigation  
Status: Closed

**MN Financial Assurance 1:**

PROGRAM ID: 221296  
Township Name: Stuntz  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 279809  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 8737  
Interest Start Date: 11/15/1999  
Interest End Date: 03/29/2010  
Activity Flag: N  
TMSP Added: 03/29/2010  
TMSP Last Update: 11/10/2014 08:17:06  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 57679832  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 221296  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 279809  
Interest Telephone: Not reported  
Preferred ID: 8737  
Interest Start Date: 11/15/1999  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD N FUEL (Continued)**

**S106550016**

TMSP Last Update: 03/29/2010 16:34:16  
Staff ID Last Update: CMCLAIN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 221296  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 06/26/2014 07:38:23  
TMSP Last Update: 06/26/2014 07:38:23  
Staff ID Last Update: DBOETTC  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 57679832  
Spatial ID: 57679834

Program Id: 221296  
Lat/Long ID: 161521  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 4.26  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 21.06  
Collection Date: 03/14/2011 08:13:47  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 16:34:17  
TMSP Last Update: 03/14/2011 08:13:47  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 57679832  
Spatial ID: 57679834

Staff Name:  
Program Id: 221296  
Staff Sequence ID: 5281

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD N FUEL (Continued)**

**S106550016**

Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:02  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3176

Program Id: 221296  
Staff Sequence ID: 29118  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:26  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: HYD  
Staff ID Number: 3407

Program Id: 221296  
Staff Sequence ID: 20519  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:17  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3451

**WIMN:**

Name: FOOD N FUEL  
Address: 4997 MILLER TRUNK HIGHWAY  
Address Description: 4997 Miller Trunk Highway  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.8345178  
Longitude: -92.205850799999993  
Item ID: 190406-AISI0000190406  
AI ID: 190406  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 190406  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Investigation and Cleanup

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD N FUEL (Continued)**

**S106550016**

Program List:	SR
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/25/2016
Timestamp of Creation:	03/29/2010
User Name of Creator:	DELTA_M_R2
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	57679833
Activity:	Petroleum Remediation, Leak Site
Activity List:	Petroleum Remediation, Leak Site
MPCA ID:	LS0008737
MPCA List:	LS0008737
Program List:	Investigation and Cleanup
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/190406">https://webapp.pca.state.mn.us/wimn/site/190406</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.83451788
Longitude:	-92.20585085
Activity:	Leak Site
MPCA ID:	8737
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**L61**      **FOOD AND FUEL**  
**WSW**      **4997 MILLER TRUNK HIGHWAY**  
**1/4-1/2**      **HERMANTOWN, MN 55811**  
**0.413 mi.**  
**2181 ft.**      **Site 5 of 5 in cluster L**

**MN LUST**      **S106552273**  
**MN SRS**      **N/A**  
**MN Financial Assurance**  
**MN WIMN**

**Relative:**  
**Lower**  
**Actual:**  
**1415 ft.**

**LUST:**  
 Name: FOOD AND FUEL  
 Address: 4997 MILLER TRUNK HIGHWAY  
 City,State,Zip: HERMANTOWN, MN 55811  
 Item ID: 189272-AREA0000000001  
 MNPCA ID: 223397  
 AI ID: 189272  
 AI Name: Food And Fuel  
 Site Type: Leak Site  
 Hydro: Not reported  
 Project Manager: Elizabeth Clysdale (no longer at MPCA)  
 Latitude: 46.83443957  
 Longitude: -92.20595072  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/189272>  
 Leak Discovered: 11/18/1997  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Not reported  
 Site Closed: 08/06/1998  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported  
 SI Type: Not reported  
 Leak Reported: 11/19/1997

**0816:**  
 Program IN: 223397  
 Facility Address 2: Not reported  
 State Code: MN  
 Country Code: USA  
 Foreign State: Not reported  
 Foreign Zone: Not reported  
 Leak ID: 10973  
 Township Name: Whiteface Reservoir  
 Addr ID: 270391  
 Active Flag: N  
 Interest Type: LS  
 Interest Phone: NO CORE PI PH.  
 Interest Start Date: 08/20/1999 00:00:00  
 Interest End Date: 11/30/2006 06:52:06  
 Source: CORE  
 Site ID: 246480  
 Leak Site: 1  
 File Archive Box: 12  
 File Archive Lot: 01/124  
 Soil Digout Date: Not reported  
 Cubic Yards Excavated: Not reported  
 Cond Closure Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD AND FUEL (Continued)**

**S106552273**

Complete Site Closure Date: 08/06/1998 00:00:00  
Contaminated Soils Remaining: U  
Enforcement Action Begin Date: 12/01/1997  
Last Trust Eligible: Y  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 11/18/1997  
Leak Reported Date: 11/19/1997  
Std Letter Response Date: 01/08/1998  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:51  
TMSP Last Update: 04/08/2008 09:25:00  
Staff ID Last Update: SCHILD  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

**GW Info:**

MN PCA ID: 223397  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: Not reported  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:34  
TMSP Last Update: 11/04/2003 12:57:08  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

Prodrel:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD AND FUEL (Continued)**

**S106552273**

MN PCA ID: 223397  
Prod Released Sequence Id: 34264  
Leak Product: 13  
Tmsp Added: 03/11/2003 14:26:00  
Tmsp Last\_updt: 03/11/2003 14:26:00  
Staff Id Last Updt: AMUSCH

**SRS:**

Name: FOOD AND FUEL  
Address: 4997 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: LS0010973  
Item ID: 189272-AREA0000000001  
AI ID: 189272  
AI Name: Food And Fuel  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Elizabeth Clysdale (no longer at MPCA)  
Latitude: 46.83443957000  
Longitude: -92.20595072000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/189272>  
Leak Discovered: 11/18/1997  
Leak Reported: 11/19/1997  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 08/06/1998  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19970001  
Act Desc: Leak Site Investigation  
Status: Closed

**MN Financial Assurance 1:**

PROGRAM ID: 223397  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 270391  
Interest Telephone: NO CORE PI PH.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD AND FUEL (Continued)**

**S106552273**

Preferred ID: 10973  
Interest Start Date: 08/20/1999  
Interest End Date: 11/30/2006  
Activity Flag: N  
TMSP Added: 11/30/2006  
TMSP Last Update: 11/10/2014 08:17:06  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 246480  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 223397  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 270391  
Interest Telephone: Not reported  
Preferred ID: 10973  
Interest Start Date: 08/20/1999  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/30/2006 06:52:06  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 223397  
Lat/Long ID: 9191  
Latitude Degrees: 46  
Latitude Minutes: 49  
Latitude Seconds: 45.1675  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 53.4817  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:12  
TMSP Last Update: 06/03/2008 10:11:43  
Staff ID Last Update: SCHILD  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 246480  
Spatial ID: 51833363

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD AND FUEL (Continued)**

**S106552273**

Program Id: 223397  
Lat/Long ID: 132977  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 4.05  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 21.45  
Collection Date: 06/03/2008 10:10:42  
Lat/Long Description: Not reported  
TMSP Added: 11/30/2006 06:52:14  
TMSP Last Update: 06/03/2008 10:10:41  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 246480  
Spatial ID: 51833363

Staff Name:  
Program Id: 223397  
Staff Sequence ID: 7229  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:03  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 4129

Program Id: 223397  
Staff Sequence ID: 22514  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:19  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3218

WIMN:  
Name: FOOD AND FUEL  
Address: 4997 MILLER TRUNK HIGHWAY  
Address Description: 4997 Miller Trunk Highway  
City,State,Zip: HERMANTOWN, MN 55811  
Status: Y  
Latitude: 46.834459699999996



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOOD AND FUEL (Continued)**

**S106552273**

Longitude: -92.20596009999999  
Item ID: 189272-AISI0000189272  
AI ID: 189272  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 189272  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Investigation and Cleanup  
Program List: SR  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DM  
Method Description: Digitized - MPCA internal map  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 04/25/2016  
Timestamp of Creation: 11/30/2006  
User Name of Creator: DELTA\_M\_R2  
Timestamp of Last Update: 04/26/2016  
User Name of Last Update: spatial\_  
Status Date: Not reported  
The Delta Spatial ID: 51833362  
Activity: Petroleum Remediation, Leak Site  
Activity List: Petroleum Remediation, Leak Site  
MPCA ID: LS0010973  
MPCA List: LS0010973  
Program List: Investigation and Cleanup  
Classification: Not reported  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/189272>

WIMN Detail as of Aug 2016:  
Legislative District: 3B  
Latitude: 46.83445972  
Longitude: -92.20596018  
Activity: Leak Site  
MPCA ID: 10973

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FOOD AND FUEL (Continued)**

**S106552273**

Major Watershed: St. Louis River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Inactive

**J62**  
**West**  
**1/4-1/2**  
**0.419 mi.**  
**2210 ft.**

**MN ARMY NATIONAL GUARD**  
**SEE LOCATION DESCRIPTION**  
**DULUTH, MN 55811**

**MN WIMN S110817898**  
**N/A**

**Site 3 of 4 in cluster J**

**Relative:**  
**Lower**

**Actual:**  
**1411 ft.**

WIMN:  
 Name: MN ARMY NATIONAL GUARD  
 Address: SEE LOCATION DESCRIPTION  
 Address Description: See location description  
 City, State, Zip: DULUTH, MN 55811  
 Status: Y  
 Latitude: 46.838658600000002  
 Longitude: -92.207288599999998  
 Item ID: 191334-AISI0000191334  
 AI ID: 191334  
 Document ID: 0  
 Subject Item Type Code: CON  
 Subject Item Category Code: AISI  
 Subject Item ID: 191334  
 Subject Item Category Description: Agency Interest  
 Subject Item Type Description: Conventional Site  
 Description: Not reported  
 Subject Item Designation: Not reported  
 MPCA Program: Investigation and Cleanup  
 Program List: SR  
 City, Township or Unorganized code: 239456  
 City, Township or Unorganized Name: Duluth  
 Congressional District Code: 8  
 House District: 3B  
 Senate District: 3  
 USGS 8-digits: 04010201  
 USGS 8-digits Name: St. Louis River  
 USGS 10-digits: 0401020116  
 USGS 12-digits: 040102011604  
 USGS 12-digits Name: Saint Louis River  
 MDH Drinking Water Management Code: Not reported  
 MDH Drinking Water Management Name: Not reported  
 Location Description: Not reported  
 Township, Range, Direction, Section QQ: Not reported  
 PLS Township: Not reported  
 Range: Not reported  
 Range Direction: Not reported  
 Section: Not reported  
 Quarters: Not reported  
 Collection Method Code: DM  
 Method Description: Digitized - MPCA internal map  
 Ref Code: GEN  
 Ref Description: General Location  
 Location Verified Flag: N  
 Collection Date: 04/25/2016  
 Timestamp of Creation: 03/11/2003  
 User Name of Creator: DELTA\_M\_R2

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MN ARMY NATIONAL GUARD (Continued)**

**S110817898**

Timestamp of Last Update: 04/26/2016  
 User Name of Last Update: spatial\_  
 Status Date: Not reported  
 The Delta Spatial ID: 89165  
 Activity: Integrated Remediation  
 Activity List: Integrated Remediation  
 MPCA ID: LS0013038  
 MPCA List: LS0013038  
 Program List: Investigation and Cleanup  
 Classification: Not reported  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/191334>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
 Latitude: 46.83865867  
 Longitude: -92.20728862  
 Activity: Leak Site  
 MPCA ID: 13038  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Inactive

**J63**  
**West**  
**1/4-1/2**  
**0.419 mi.**  
**2212 ft.**

**MN AIR NATIONAL GUARD**  
**SEE LOCATION DESCRIPTION**  
**DULUTH, MN 55811**

**MN SRS**  
**MN Financial Assurance**

**S110995892**  
**N/A**

**Site 4 of 4 in cluster J**

**Relative:**  
**Lower**  
**Actual:**  
**1411 ft.**

SRS:  
 Name: MN AIR NATIONAL GUARD  
 Address: SEE LOCATION DESCRIPTION  
 City,State,Zip: DULUTH, MN 55811  
 Facility ID: LS0013038  
 Item ID: 191334-AREA0000000001  
 AI ID: 191334  
 AI Name: MN Army National Guard  
 Facility Type: INRM  
 Hydro: Mark Toso (former)  
 Project Manager: Laura Hysjulien (no longer at MPCA)  
 Latitude: 46.83865383000  
 Longitude: -92.20729583000  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Y  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/191334>  
 Leak Discovered: Not reported  
 Leak Reported: Not reported  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Site Closed: 05/15/2000  
 Owner: Minnesota Air National Guard - Duluth  
 Owner Address: 4680 Viper St  
 Owner City: Duluth  
 Owner State: MN  
 Owner ZIP: 558116015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MN AIR NATIONAL GUARD (Continued)**

**S110995892**

Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19990001  
Act Desc: Site Investigation  
Status: Closed

**MN Financial Assurance 1:**

PROGRAM ID: 225412  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 24026  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 13038  
Interest Start Date: 10/20/1999  
Interest End Date: 04/14/2011  
Activity Flag: N  
TMSP Added: 03/24/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 122474  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: CERCLA Site, Mike Bares contact.\n\nSite Closed in Large AST Remediation\n\ncontinue as CERCLA site. Site is located on the south side of the runway towards the western portion. Site is located within the western portion of the building complex. Site is between Airport Rd, just off of the bend, and between the service road.

**Latitude Longitude:**

Program Id: 225412  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 39.480377  
Longitude Degrees: -92  
Longitude Minutes: 10  
Longitude Seconds: 27.08723  
Collection Date: 03/24/2006 00:00:00  
Lat/Long Description: Site Center  
TMSP Added: 04/04/2006 11:48:40  
TMSP Last Update: 03/31/2011 10:38:12  
Staff ID Last Update: GZARLIN  
Coord Source Type: 2  
Org Name Source: Rebecca Gorney  
Coord Coll Meth: I2  
Map Scale Code: B

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MN AIR NATIONAL GUARD (Continued)**

**S110995892**

Source: TALES  
Site ID: 122474  
Spatial ID: 51071259  
  
Program Id: 225412  
Lat/Long ID: 109750  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 19.17  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 26.23  
Collection Date: 04/14/2011 14:13:04  
Lat/Long Description: Not reported  
TMSP Added: 10/12/2005 14:27:17  
TMSP Last Update: 04/14/2011 14:13:03  
Staff ID Last Update: MAPTOOL  
Coord Source Type: 2  
Org Name Source: Beth Brown  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 122474  
Spatial ID: 51071259

Staff Name:  
Program Id: 225412  
Staff Sequence ID: 24427  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:21  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3284

Program Id: 225412  
Staff Sequence ID: 30354  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:27  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: HYD  
Staff ID Number: 3426

Program Id: 225412  
Staff Sequence ID: 9124  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:05

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MN AIR NATIONAL GUARD (Continued)**

**S110995892**

TMSP Last Update: 01/20/2012 10:39:35  
 Staff ID Last Update: RSUCHAN  
 Last Name: Not reported  
 First Name: Not reported  
 Middle Initial: Not reported  
 Functional Area Code: RRS  
 Staff ID Number: 3433

**64**  
**West**  
**1/4-1/2**  
**0.423 mi.**  
**2232 ft.**

**NRRI/UNIVERSITY OF MN-DULUTH**  
**3153 MILLER TRUNK HIGHWAY**  
**DULUTH, MN 55811**

**MN LUST**  
**MN SRS**  
**MN Financial Assurance**  
**MN WIMN**

**S106547432**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1417 ft.**

**LUST:**  
 Name: NRRI/UNIVERSITY OF MN-DULUTH  
 Address: 3153 MILLER TRUNK HIGHWAY  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 197530-AREA0000000001  
 MNPCA ID: 215383  
 AI ID: 197530  
 AI Name: Nrrri/university Of Mn-duluth  
 Site Type: Leak Site  
 Hydro: Mike Bares (former)  
 Project Manager: Steve Leppala (no longer at MPCA)  
 Latitude: 46.83596039  
 Longitude: -92.20716858  
 Coord Collection Method: Digitized-DOQ  
 Migrated: Not reported  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/197530>  
 Leak Discovered: Not reported  
 Application / Notification Received: Not reported  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Owner: Not reported  
 Site Closed: 04/11/2000  
 Owner Address: Not reported  
 Owner City: Not reported  
 Owner State: Not reported  
 Owner ZIP: Not reported  
 SI Type: Not reported  
 Leak Reported: 05/22/1990

**0816:**  
 Program IN: 215383  
 Facility Address 2: Not reported  
 State Code: MN  
 Country Code: USA  
 Foreign State: Not reported  
 Foreign Zone: Not reported  
 Leak ID: 2584  
 Township Name: Whiteface Reservoir  
 Addr ID: 262456  
 Active Flag: N  
 Interest Type: LS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI/UNIVERSITY OF MN-DULUTH (Continued)**

**S106547432**

Interest Phone: NO CORE PI PH.  
Interest Start Date: 12/09/1998 07:18:47  
Interest End Date: 04/11/2000 00:00:00  
Source: CORE  
Site ID: 241206  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: 11/07/1993  
Cubic Yards Excavated: 690  
Cond Closure Date: Not reported  
Complete Site Closure Date: 04/11/2000 00:00:00  
Contaminated Soils Remaining: Y  
Enforcement Action Begin Date: 06/18/1990  
Last Trust Eligible: N  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: Not reported  
Leak Reported Date: 05/22/1990  
Std Letter Response Date: Not reported  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 12/04/1999 14:03:44  
TMSP Last Update: 05/19/2014 09:56:39  
Staff ID Last Update: DBOETTC  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: U  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

**GW Info:**

MN PCA ID: 215383  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: Y  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:28  
TMSP Last Update: 11/04/2003 12:57:06  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI/UNIVERSITY OF MN-DULUTH (Continued)**

**S106547432**

Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 215383  
Prod Released Sequence Id: 402262  
Leak Product: 8  
Tmsp Added: 12/27/1999 12:59:08  
Tmsp Last\_updt: 05/04/2002 09:08:08  
Staff Id Last Updt: TANKS

**SRS:**

Name: NRRI/UNIVERSITY OF MN-DULUTH  
Address: 3153 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0002584  
Item ID: 197530-AREA0000000001  
AI ID: 197530  
AI Name: Nnri/university Of Mn-duluth  
Facility Type: LEAK  
Hydro: Mike Bares (former)  
Project Manager: Steve Leppala (no longer at MPCA)  
Latitude: 46.83596039000  
Longitude: -92.20716858000  
Coord Collection Method: Digitized-DOQ  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/197530>  
Leak Discovered: Not reported  
Leak Reported: 05/22/1990  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 04/11/2000  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19900001



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI/UNIVERSITY OF MN-DULUTH (Continued)**

**S106547432**

Act Desc: Leak Site Investigation  
Status: Closed

MN Financial Assurance 1:

PROGRAM ID: 215383  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 262456  
Interest Telephone: 2187267139  
Preferred ID: 2584  
Interest Start Date: 12/09/1998  
Interest End Date: 04/11/2000  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/13/2006 08:36:13  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 215383  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 262456  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 2584  
Interest Start Date: 12/09/1998  
Interest End Date: 04/11/2000  
Activity Flag: N  
TMSP Added: 11/13/2006  
TMSP Last Update: 03/19/2013 13:26:55  
Staff ID Last Update: RSUCHAN  
Source: CORE  
Source ID: 241206  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:

Program Id: 215383  
Lat/Long ID: 1  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 9.462382  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 25.809258  
Collection Date: 11/03/2005 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI/UNIVERSITY OF MN-DULUTH (Continued)**

**S106547432**

Lat/Long Description: Main Site Building  
TMSP Added: 11/14/2005 09:18:17  
TMSP Last Update: 05/03/2007 08:50:56  
Staff ID Last Update: RSUCHAN  
Coord Source Type: 2  
Org Name Source: Rebecca Gorney  
Coord Coll Meth: I2  
Map Scale Code: B  
Source: TALES  
Site ID: 241206  
Spatial ID: 51737312

Program Id: 215383  
Lat/Long ID: 129814  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 9.46  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 25.81  
Collection Date: 11/03/2005 00:00:00  
Lat/Long Description: Not reported  
TMSP Added: 11/13/2006 08:36:17  
TMSP Last Update: 11/13/2006 22:03:40  
Staff ID Last Update: COREUSER  
Coord Source Type: 2  
Org Name Source: Rebecca Gorney  
Coord Coll Meth: I2  
Map Scale Code: B  
Source: CORE  
Site ID: 241206  
Spatial ID: 51737312

Staff Name:  
Program Id: 215383  
Staff Sequence ID: 14932  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:12  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3094

Program Id: 215383  
Staff Sequence ID: 26811  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:23  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI/UNIVERSITY OF MN-DULUTH (Continued)**

**S106547432**

Functional Area Code: HYD  
Staff ID Number: 3188  
  
Program Id: 215383  
Staff Sequence ID: 11099  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:08  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: SPS  
Staff ID Number: 4116

**WIMN:**

Name: NRRI/UNIVERSITY OF MN-DULUTH  
Address: 3153 MILLER TRUNK HIGHWAY  
Address Description: 3153 Miller Trunk Highway  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.835963560000003  
Longitude: -92.207170140000002  
Item ID: 197530-AISI0000197530  
AI ID: 197530  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 197530  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Investigation and Cleanup  
Program List: SR  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: I2

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NRRI/UNIVERSITY OF MN-DULUTH (Continued)**

**S106547432**

Method Description:	Digitized-DOQ
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/26/2016
Timestamp of Creation:	11/13/2006
User Name of Creator:	DELTA_M_R2
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	51737311
Activity:	Petroleum Remediation, Leak Site
Activity List:	Petroleum Remediation, Leak Site
MPCA ID:	LS0002584
MPCA List:	LS0002584
Program List:	Investigation and Cleanup
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/197530">https://webapp.pca.state.mn.us/wimn/site/197530</a>

WIMN Detail as of Aug 2016:

Legislative District:	3B
Latitude:	46.83596419
Longitude:	-92.20716858
Activity:	Leak Site
MPCA ID:	2584
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized-DOQ
Status:	Inactive

**K65**  
**WSW**  
**1/4-1/2**  
**0.428 mi.**  
**2262 ft.**

**SUGAR MAPLE CROSSING**  
**4960 MILLER TRUNK HIGHWAY**  
**HERMANTOWN, MN 55811**

**MN NPDES S113905681**  
**MN WIMN N/A**

**Site 2 of 2 in cluster K**

**Relative:**  
**Lower**

<b>Actual:</b>	<b>1412 ft.</b>	
Relative:	NPDES:	
Lower	Name:	SUGAR MAPLE CROSSING
Actual:	Address:	4960 MILLER TRUNK HIGHWAY
1412 ft.	City,State,Zip:	HERMANTOWN, MN 55811
	Active:	Y
	Activity ID:	C00036575
	Preferred ID:	Not reported
	Activity Sys ID:	14385136575
	Activity Type:	Construction Stormwater Permit
	Activity Type Code:	45
	Effective Start Date:	08/12/2013
	End Date:	12/01/2013
	Alternative Method:	Not reported
	Coverage Date:	08/15/2013
	Latitude Degree:	46.832339
	Longitude Degree:	-92.206392
	Location Description:	Not reported
	New Imp Area:	1.58
	Old Imp Area:	0
	Online Submittal:	Not reported
	Other Project Type Description:	Not reported
	Owner Name:	PPT, LLC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SUGAR MAPLE CROSSING (Continued)**

**S113905681**

Owner Organization Type: Private (Non-Government)  
Permit Sys ID: 122748  
Project Name: Sugar Maple Crossing  
Project Size: 2.93  
Termination Date: Not reported  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: PPT, LLC

**WIMN:**

Name: SUGAR MAPLE CROSSING  
Address: 4960 MILLER TRUNK HIGHWAY  
Address Description: 4960 Miller Trunk Highway  
City,State,Zip: HERMANTOWN, MN 55811  
Status: Y  
Latitude: 46.832338999999997  
Longitude: -92.206391999999994  
Item ID: 143851-AISI0000143851  
AI ID: 143851  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 143851  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Stormwater  
Program List: ST  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**SUGAR MAPLE CROSSING (Continued)**

**S113905681**

MDH Drinking Water Management Code: Not reported  
 MDH Drinking Water Management Name: Not reported  
 Location Description: Not reported  
 Township, Range, Direction, Section QQ: Not reported  
 PLS Township: Not reported  
 Range: Not reported  
 Range Direction: Not reported  
 Section: Not reported  
 Quarters: Not reported  
 Collection Method Code: G8  
 Method Description: GPS - Other  
 Ref Code: GEN  
 Ref Description: General Location  
 Location Verified Flag: N  
 Collection Date: 09/27/2015  
 Timestamp of Creation: 08/09/2013  
 User Name of Creator: DELTA\_M\_R1  
 Timestamp of Last Update: 04/26/2016  
 User Name of Last Update: spatial\_  
 Status Date: Not reported  
 The Delta Spatial ID: 66697169  
 Activity: Construction Stormwater  
 Activity List: Construction Stormwater  
 MPCA ID: C00036575  
 MPCA List: C00036575  
 Program List: Stormwater  
 Classification: Not reported  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/143851>

WIMN Detail as of Aug 2016:

Legislative District: 03B  
 Latitude: 46.83233899  
 Longitude: -92.20639199  
 Activity: Construction Stormwater Permit  
 MPCA ID: C00036575  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: GPS - Other  
 Status: Active

**66**  
**SW**  
**1/4-1/2**  
**0.434 mi.**  
**2290 ft.**

**BULLYAN TRAILER SALES INC**  
**4956 MILLER TRUNK HIGHWAY**  
**DULUTH, MN 55811**

**MN AST** **U004116942**  
**MN ENF** **N/A**  
**MN Financial Assurance**  
**MN NPDES**  
**MN WIMN**

**Relative:**  
**Lower**  
**Actual:**  
**1411 ft.**

AST:  
 Name: BULLYAN TRAILER SALES INC  
 Address: 4956 MILLER TRUNK HIGHWAY  
 City, State, Zip: DULUTH, MN 55811  
 AI ID: 102549  
 Tank Site ID: TS0124741  
 Item ID: 102549-EQUI0000000001  
 SI Type: Aboveground Storage Tank  
 SI Design: 1  
 SI Description: Not reported  
 Substance: Used Oil  
 Compartment Number: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN TRAILER SALES INC (Continued)**

**U004116942**

Wall Type:	Not reported
Overfill Prevention System:	AST None
Install Date:	Not reported
Status Change Date:	2007-11-05 00:00:00
Material:	Carbon steel
Tank Status:	Active
Tanks Contractor:	Not reported
Capacity Gallon:	265
Longitude:	-92.20405245
Latitude:	46.8320387
Coord Collection Method:	GPS - Unknown
Owner Name:	Bullyan Trailer Sales Inc
Owner Address:	4956 Miller Trunk Highway
Owner City:	Duluth
Owner State:	MN
Owner Zip:	55811
Tanks URL:	<a href="https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0124741">https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0124741</a>
AST Prior to 08/2016:	
Program Interest ID:	53831774
Facility Addr 2:	Not reported
Address ID:	53831769
MPCA Tank Number:	'1
Above/Under Ground:	1
Piping Cathodic Protection:	Not reported
Tank Cathodic Protection:	Not reported
Substance:	24
Client Tank Number:	001
AST Base Material:	Not reported
Piping Material:	Not reported
Piping Material Desc:	Not reported
Secondary Containment Tank:	Not reported
Secondary Containment Pipe:	Not reported
Tank Material:	1
Tank Dispenser Code:	Not reported
Tank Status Code:	3
Tank Capacity:	265
Tank Registration Date:	11/05/2007 00:00:00
Unregulated Tank Registration Date:	Not reported
Compartmental Tank Flag:	Not reported
Heating Product Flag:	Not reported
HazWaste Generator Id:	Not reported
Product Replaced Date:	Not reported
Sludge Disposal Facility:	Not reported
Comments:	Not reported
Date Added:	10/13/2010 13:47:59
Date Last Updated:	10/13/2010 13:48:11
Staff Id Who Did The Last Update:	JHENRY
In Compliance:	N
Serial Number:	Not reported
Tank Dual Use:	N
Preferred ID:	124741
Lat/Long:	
Latitude Degree:	Not reported
Latitude Minute:	Not reported
Latitude Second:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN TRAILER SALES INC (Continued)**

**U004116942**

Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: JBRANDO  
Program Id: 53831774  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Not reported  
TMSP Added: 04/25/2010 16:57:12  
Date Last Updated: 04/25/2010 16:57:12  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 49  
Latitude Second: 53.11  
Longitude Degree: -92  
Longitude Minute: 12  
Longitude Second: 8.08  
Staff Id Who Did The Last Update: MAPT\_NC  
Program Id: 53831774  
Latlong ID: 155976  
Collection Date: 03/22/2010 17:46:55  
LatLong Description: Not reported  
TMSP Added: 03/22/2010 18:26:00  
Date Last Updated: 03/22/2010 18:26:00  
Coord Source Type: Not reported  
Org Name Source: Not reported

**Tab site:**

Facility Code: 2  
Staff Id Who Did The Last Update: JHENRY  
Program Interest Id: 53831774  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: Not reported  
AST Registration Date: 11/05/2007 00:00:00  
Date Added: 11/27/2007 13:15:42  
Date Last Updated: 10/13/2010 13:38:37  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

**Tank C:**

MPCA Tank Number: '1  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 24  
Tank Stored Product Desc: Not reported  
Compartment Cap: 265  
Heating: 1  
Other Desc: Not reported  
Date Added: 11/27/2007 13:16:16  
Date Last Updated: 11/27/2007 13:16:16



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN TRAILER SALES INC (Continued)**

**U004116942**

MN Enforcement Log :

Name: BULLYAN TRAILER SALES INC  
Address: 4956 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Facility ID: C00017138  
Violation: Not reported  
Determined Date: Not reported  
Determined By: Not reported  
Responsible Agency: Not reported  
RTC Date: Not reported  
Enforcement Sequence: Not reported  
Effective End Date: 06/26/2006  
Enforcement Type: Letter of Warning  
Lead Agency: Not reported  
Sequence: Not reported  
AI ID: 102549  
Activity ID: NON20060001  
Public Flag: Y  
Latitude: 46.8320387  
Longitude: -92.20405245  
Coord Collect Meth Desc: GPS - Unknown  
Mailing Address1: 4956 Miller Trunk Highway  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: 55811  
Responsible Party: Bullyan Trailer Sales Inc (Duluth, MN)  
Zero Date: 06/26/2006  
Case Closed: Not reported  
Case Lead: Keith Cherryholmes  
Attorney Assigned: Not reported  
Lead Program: Const Stormwater  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

Name: BULLYAN TRAILER SALES INC  
Address: 4956 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Facility ID: C00017138  
Violation: Not reported  
Determined Date: Not reported  
Determined By: Not reported  
Responsible Agency: Not reported  
RTC Date: Not reported  
Enforcement Sequence: Not reported  
Effective End Date: 07/03/2007

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN TRAILER SALES INC (Continued)**

**U004116942**

Enforcement Type: Letter of Warning  
Lead Agency: Not reported  
Sequence: Not reported  
AI ID: 102549  
Activity ID: NON20070001  
Public Flag: Y  
Latitude: 46.8320387  
Longitude: -92.20405245  
Coord Collect Meth Desc: GPS - Unknown  
Mailing Address1: 4956 Miller Trunk Highway  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: 55811  
Responsible Party: Bullyan Trailer Sales Inc (Duluth, MN)  
Zero Date: 07/03/2007  
Case Closed: Not reported  
Case Lead: Keith Cherryholmes  
Attorney Assigned: Not reported  
Lead Program: Const Stormwater  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

**MN Financial Assurance 1:**

PROGRAM ID: 53831774  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 53831769  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 124741  
Interest Start Date: 11/16/2007  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 11/16/2007  
TMSP Last Update: 04/01/2008 12:44:23  
Staff ID Last Update: BOLSON1  
Source: CORE  
Source ID: 174312  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN TRAILER SALES INC (Continued)**

**U004116942**

Latitude Longitude:  
Program Id: 53831774  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 04/25/2010 16:57:12  
TMSP Last Update: 04/25/2010 16:57:12  
Staff ID Last Update: JBRANDO  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 174312  
Spatial ID: 53831775

Program Id: 53831774  
Lat/Long ID: 155976  
Latitude Degrees: 46  
Latitude Minutes: 49  
Latitude Seconds: 53.11  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 8.08  
Collection Date: 03/22/2010 17:46:55  
Lat/Long Description: Not reported  
TMSP Added: 03/22/2010 18:26:00  
TMSP Last Update: 03/22/2010 18:26:00  
Staff ID Last Update: MAPT\_NC  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 174312  
Spatial ID: 53831775

Tab Site:  
Program Id: 53831774  
Facility Code: 2  
Above or Under Code: 1  
Indian Reservation: Not reported  
Ust Registration Date: Not reported  
Ast Registration Date: 11/05/2007 00:00:00  
TMSP Added: 11/27/2007 13:15:42  
TMSP Last Update: 10/13/2010 13:38:37  
Staff ID Last Update: JHENRY  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: Not reported  
Vapor Notif Required: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN TRAILER SALES INC (Continued)**

**U004116942**

NPDES:

Name: BULLYAN TRAILER SALES INC  
Address: 4956 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Active: N  
Activity ID: C00017138  
Preferred ID: Not reported  
Activity Sys ID: 10254917138  
Activity Type: Coverage Termination  
Activity Type Code: 56  
Effective Start Date: 10/15/2005  
End Date: 10/30/2006  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.8320387  
Longitude Degree: -92.2040524  
Location Description: Not reported  
New Imp Area: 2  
Old Imp Area: 0.8  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Bullyan Trailer Sales Inc  
Owner Organization Type: Private (Non-Government)  
Permit Sys ID: 62245  
Project Name: Bullyan Trailer Sales Inc  
Project Size: 12  
Termination Date: 07/27/2007  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Bullyan RV Center

WIMN:

Name: BULLYAN TRAILER SALES INC  
Address: 4956 MILLER TRUNK HIGHWAY  
Address Description: 4956 Miller Trunk Highway  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.832038699999998

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BULLYAN TRAILER SALES INC (Continued)**

**U004116942**

Longitude:	-92.204052450000006
Item ID:	102549-AISI0000102549
AI ID:	102549
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	102549
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Multiple Programs
Program List:	HW; ST; TL
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	G9
Method Description:	GPS - Unknown
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	03/30/2018
Timestamp of Creation:	11/23/2005
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	03/30/2018
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	50648215
Activity:	Multiple Activities
Activity List:	Aboveground Tanks; Construction Stormwater; Hazardous Waste, Minimal quantity generator
MPCA ID:	Multiple IDs
MPCA List:	C00017138; MNS000134395; TS0124741
Program List:	Hazardous Waste; Stormwater; Tanks
Classification:	Used Car Dealers ; Recreational Vehicle Dealers ; General Automotive Repair
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/102549">https://webapp.pca.state.mn.us/wimn/site/102549</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.83142035
Longitude:	-92.20224684

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BULLYAN TRAILER SALES INC (Continued)**

**U004116942**

Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active

**M67**  
**SW**  
 1/4-1/2  
 0.449 mi.  
 2371 ft.

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT**  
**4950 MILLER TRUNK HWY**  
**HERMANTOWN, MN 55811**

**MN WIMN S117983053**  
**N/A**

**Site 1 of 2 in cluster M**

**Relative:**  
**Lower**  
**Actual:**  
**1409 ft.**

<b>WIMN:</b>	
Name:	CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT
Address:	4950 MILLER TRUNK HWY
Address Description:	4950 Miller Trunk Hwy
City,State,Zip:	HERMANTOWN, MN 55811-1409
Status:	Y
Latitude:	46.829513970000001
Longitude:	-92.203186070000001
Item ID:	150075-AISI0000150075
AI ID:	150075
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	150075
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Stormwater
Program List:	ST
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	03/11/2020

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT (Continued)**

**S117983053**

Timestamp of Creation: 05/07/2015  
 User Name of Creator: DELTA\_M\_R1  
 Timestamp of Last Update: 03/11/2020  
 User Name of Last Update: geo\_nc  
 Status Date: Not reported  
 The Delta Spatial ID: 73814678  
 Activity: Industrial Stormwater  
 Activity List: Industrial Stormwater  
 MPCA ID: MNRNE3CRR  
 MPCA List: MNRNE3CRR  
 Program List: Stormwater  
 Classification: Not reported  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/150075>

WIMN Detail as of Aug 2016:

Legislative District: 03B  
 Latitude: 46.83246599  
 Longitude: -92.20383499  
 Activity: Industrial Stormwater Permit  
 MPCA ID: MNRNE3CRR  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: GPS - Other  
 Status: Active

**M68**  
**SW**  
 1/4-1/2  
 0.449 mi.  
 2371 ft.

**CIRRUS DESIGN CORP/CIRRUS AIRCRAFT - FACILITY 5**  
**4950 MILLER TRUNK HWY**  
**HERMANTOWN, MN 55811**  
 Site 2 of 2 in cluster M

**MN NPDES S117723024**  
**MN WIMN N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1409 ft.**

NPDES:  
 Name: CIRRUS DESIGN CORP AKA CIRRUS AIRCRAFT  
 Address: 4950 MILLER TRUNK HWY  
 City,State,Zip: HERMANTOWN, MN 558111409  
 Active: Active  
 Activity ID: MNRNE3CRR  
 Preferred ID: Not reported  
 Activity Sys ID: 150075  
 Activity Type: Not reported  
 Activity Type Code: Not reported  
 Effective Start Date: 04/01/2020  
 End Date: Not reported  
 Alternative Method: Not reported  
 Coverage Date: Not reported  
 Latitude Degree: 46.830981  
 Longitude Degree: -92.201522  
 Location Description: Not reported  
 New Imp Area: Not reported  
 Old Imp Area: Not reported  
 Online Submittal: Not reported  
 Other Project Type Description: Not reported  
 Owner Name: Cirrus Design  
 Owner Organization Type: Not reported  
 Permit Sys ID: 3971900  
 Project Name: Not reported  
 Project Size: Not reported  
 Termination Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CIRRUS DESIGN CORP/CIRRUS AIRCRAFT - FACILITY 5 (Continued)**

**S117723024**

Acres: 0  
Activity Description: Raw material receiving, cutting, machining and welding of steel and aluminum components, soldering, aircraft assembly, shipping, minor aircraft maintenance and sanding and cutting.  
No Exposure: Yes  
One Mile: Not reported  
Permit Type: No Exposure Exclusion  
Sector List: AB, S  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

**WIMN:**

Name: CIRRUS DESIGN CORP/CIRRUS AIRCRAFT - FACILITY 5  
Address: 4950 MILLER TRUNK HWY  
Address Description: 4950 Miller Trunk Hwy  
City, State, Zip: HERMANTOWN, MN 55811-1409  
Status: Y  
Latitude: 46.830981700000002  
Longitude: -92.201522400000002  
Item ID: 151236-AISI0000151236  
AI ID: 151236  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 151236  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Hazardous Waste  
Program List: HW  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**CIRRUS DESIGN CORP/CIRRUS AIRCRAFT - FACILITY 5 (Continued)**

**S117723024**

Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	Not reported
Timestamp of Creation:	04/09/2015
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	08/07/2017
User Name of Last Update:	RSP
Status Date:	Not reported
The Delta Spatial ID:	73428751
Activity:	Hazardous Waste, Minimal quantity generator
Activity List:	Hazardous Waste, Minimal quantity generator
MPCA ID:	MNS000221200
MPCA List:	MNS000221200
Program List:	Hazardous Waste
Classification:	Aircraft Manufacturing
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/151236">https://webapp.pca.state.mn.us/wimn/site/151236</a>

WIMN Detail as of Aug 2016:

Legislative District:	03B
Latitude:	46.83098176
Longitude:	-92.20152244
Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	MNS000221200
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active

**69**  
**SSE**  
 1/4-1/2  
 0.452 mi.  
 2388 ft.

**EVERSMILES PEDIATRIC DENTISTRY PLLC**  
**4419 AIR BASE RD**  
**HERMANTOWN, MN 55811**

**MN WIMN S125157642**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1406 ft.**

WIMN:	
Name:	EVERSMILES PEDIATRIC DENTISTRY PLLC
Address:	4419 AIR BASE RD
Address Description:	4419 Air Base Rd
City,State,Zip:	HERMANTOWN, MN 55811-1847
Status:	Y
Latitude:	46.838373740000002
Longitude:	-92.219653460000004
Item ID:	129802-AISI0000129802
AI ID:	129802
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	129802
Subject Item Category Description:	Agency Interest

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**EVERSMILES PEDIATRIC DENTISTRY PLLC (Continued)**

**S125157642**

Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	Q2
Method Description:	Public Land Survey-Two Quarter
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	06/30/2016
Timestamp of Creation:	10/13/2011
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	06/30/2016
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	61067133
Activity:	Hazardous Waste, Very small quantity generator
Activity List:	Hazardous Waste, Very small quantity generator
MPCA ID:	MNS000172999
MPCA List:	MNS000172999
Program List:	Hazardous Waste
Classification:	Offices of Dentists
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/129802">https://webapp.pca.state.mn.us/wimn/site/129802</a>

**N70**  
**NNW**  
 1/4-1/2  
 0.464 mi.  
 2451 ft.

**DULUTH INTERNATIONAL AIRPORT**  
**SEE LOCATION DESCRIPTION**  
**DULUTH, MN 55811**

**MN LUST** **S110430378**  
**MN SRS** **N/A**  
**MN Financial Assurance**

**Site 1 of 2 in cluster N**

**Relative:**  
**Lower**  
**Actual:**  
 1417 ft.

**LUST:**  
 Name: DULUTH INTERNATIONAL AIRPORT  
 Address: SEE LOCATION DESCRIPTION  
 City,State,Zip: DULUTH, MN 55811  
 Item ID: 194375-AREA0000000001  
 MNPCA ID: 218826  
 AI ID: 194375  
 AI Name: Duluth International Airport

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT (Continued)**

**S110430378**

Site Type:	Leak Site
Hydro:	Not reported
Project Manager:	Sandy Kushman (no longer at MPCA)
Latitude:	46.84569228
Longitude:	-92.19881414
Coord Collection Method:	Digitized - MPCA internal map
Migrated:	Not reported
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/194375">https://webapp.pca.state.mn.us/wimn/site/194375</a>
Leak Discovered:	03/25/1993
Application / Notification Received:	Not reported
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Owner:	Not reported
Site Closed:	03/03/1994
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
SI Type:	Not reported
Leak Reported:	03/26/1993
0816:	
Program IN:	218826
Facility Address 2:	Not reported
State Code:	MN
Country Code:	USA
Foreign State:	Not reported
Foreign Zone:	Not reported
Leak ID:	6182
Township Name:	Whiteface Reservoir
Addr ID:	24026
Active Flag:	N
Interest Type:	LS
Interest Phone:	NO CORE PI PH.
Interest Start Date:	06/20/1996 00:00:00
Interest End Date:	04/14/2011 13:35:44
Source:	CORE
Site ID:	243274
Leak Site:	1
File Archive Box:	08
File Archive Lot:	96/307
Soil Digout Date:	03/26/1993
Cubic Yards Excavated:	45
Cond Closure Date:	Not reported
Complete Site Closure Date:	03/03/1994 00:00:00
Contaminated Soils Remaining:	N
Enforcement Action Begin Date:	04/08/1993
Last Trust Eligible:	N
Offsite Contamination:	U
Reimbursement Awarded:	N
Release Discovered Date:	03/25/1993
Leak Reported Date:	03/26/1993
Std Letter Response Date:	Not reported
Surface Water Impact:	U
Utility Project Flag:	N
TMSP Added:	12/04/1999 14:03:47

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT (Continued)**

**S110430378**

TMSP Last Update: 04/26/2011 10:18:12  
Staff ID Last Update: GZARLIN  
Release From LAST: N  
Release From LUST: N  
Tank Registration Status Code: U  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Site is located towards the western portion of the runway on the north side off of a service road

**GW Info:**

MN PCA ID: 218826  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: N  
GW Cleanup Goal: 0  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 12/04/1999 14:07:31  
TMSP Last Update: 11/04/2003 12:57:07  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: Not reported  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

**Prodrel:**

MN PCA ID: 218826  
Prod Released Sequence Id: 403883  
Leak Product: 8  
Tmsp Added: 12/27/1999 12:59:09  
Tmsp Last\_updt: 05/04/2002 09:20:42  
Staff Id Last Updt: TANKS

**SRS:**

Name: DULUTH INTERNATIONAL AIRPORT  
Address: SEE LOCATION DESCRIPTION  
City,State,Zip: DULUTH, MN 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT (Continued)**

**S110430378**

Facility ID: LS0006182  
Item ID: 194375-AREA0000000001  
AI ID: 194375  
AI Name: Duluth International Airport  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Sandy Kushman (no longer at MPCA)  
Latitude: 46.84569228000  
Longitude: -92.19881414000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/194375>  
Leak Discovered: 03/25/1993  
Leak Reported: 03/26/1993  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 03/03/1994  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW19930001  
Act Desc: Leak Site Investigation  
Status: Closed

**MN Financial Assurance 1:**

PROGRAM ID: 218826  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 24026  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 6182  
Interest Start Date: 06/20/1996  
Interest End Date: 04/14/2011  
Activity Flag: N  
TMSP Added: 11/17/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 243274  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT (Continued)**

**S110430378**

Comments: Site is located towards the western portion of the runway on the north side off of a service road going to the runway that heads east by the bend in the service road. Site is known as the "RAPCON" facility at the Duluth International Airport.

PROGRAM ID: 218826  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 265862  
Interest Telephone: Not reported  
Preferred ID: 6182  
Interest Start Date: 06/20/1996  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 12/04/1999  
TMSP Last Update: 11/17/2006 07:20:14  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 218826  
Lat/Long ID: 5111  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 56.9598  
Longitude Degrees: -92  
Longitude Minutes: 13  
Longitude Seconds: 5.0973  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:08  
TMSP Last Update: 03/14/2011 10:42:27  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: IU  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 243274  
Spatial ID: 51753702

Program Id: 218826  
Lat/Long ID: 130956  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 44.49  
Longitude Degrees: -92  
Longitude Minutes: 11  
Longitude Seconds: 55.73  
Collection Date: 04/28/2011 10:21:26

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT (Continued)**

**S110430378**

Lat/Long Description: Not reported  
TMSP Added: 11/17/2006 07:20:19  
TMSP Last Update: 04/28/2011 10:21:26  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 243274  
Spatial ID: 51753702

Staff Name:  
Program Id: 218826  
Staff Sequence ID: 2979  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:00  
TMSP Last Update: 01/20/2012 10:39:35  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: RRS  
Staff ID Number: 3346

Program Id: 218826  
Staff Sequence ID: 18177  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 12/04/1999 14:04:15  
TMSP Last Update: 01/20/2012 10:39:36  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3346

**N71**  
**NNW**  
**1/4-1/2**  
**0.464 mi.**  
**2451 ft.**

**DULUTH INTERNATIONAL AIRPORT**  
**SEE LOCATION DESCRIPTION**  
**DULUTH, MN 55811**

**MN WIMN S117726942**  
**N/A**

**Site 2 of 2 in cluster N**

**Relative:**  
**Lower**  
**Actual:**  
**1417 ft.**

WIMN:  
Name: DULUTH INTERNATIONAL AIRPORT  
Address: SEE LOCATION DESCRIPTION  
Address Description: See location description  
City,State,Zip: DULUTH, MN 55811  
Status: Y  
Latitude: 46.845692200000002  
Longitude: -92.198814100000007  
Item ID: 194375-AISI0000194375  
AI ID: 194375  
Document ID: 0

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DULUTH INTERNATIONAL AIRPORT (Continued)**

**S117726942**

Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	194375
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Investigation and Cleanup
Program List:	SR
City, Township or Unorganized code:	239456
City, Township or Unorganized Name:	Duluth
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010202
USGS 8-digits Name:	Cloquet River
USGS 10-digits:	0401020205
USGS 12-digits:	040102020501
USGS 12-digits Name:	Wild Rice Lake Reservoir
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	04/25/2016
Timestamp of Creation:	11/17/2006
User Name of Creator:	DELTA_M_R2
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	51753701
Activity:	Petroleum Remediation, Leak Site
Activity List:	Petroleum Remediation, Leak Site
MPCA ID:	LS0006182
MPCA List:	LS0006182
Program List:	Investigation and Cleanup
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/194375">https://webapp.pca.state.mn.us/wimn/site/194375</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.84569228
Longitude:	-92.19881413
Activity:	Leak Site
MPCA ID:	6182
Major Watershed:	Cloquet River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**O72**  
**West**  
**1/4-1/2**  
**0.468 mi.**  
**2471 ft.**  
  
**Relative:**  
**Lower**  
  
**Actual:**  
**1420 ft.**

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH**  
**5013 MILLER TRUNK HIGHWAY**  
**DULUTH, MN 55811**  
  
**Site 1 of 5 in cluster O**

**MN LAST** U000888908  
**MN LUST** N/A  
**MN UST**  
**MN AST**  
**MN SRS**  
**MN ASBESTOS**  
**MN ENF**  
**MN Financial Assurance**  
**MN WIMN**

LAST:

Name: UNIVERSITY OF MN DULUTH SAGE BUILDING  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item ID: 116768-AREA0000000001  
AI ID: 116768  
MN PCA ID: Not reported  
AI Name: NRRI- Sage Building- University of Duluth  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Lauralin Kania (former)  
Latitude: 46.83599568  
Longitude: -92.20701741  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/116768>  
Leak Discovered: 07/08/2011  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 11/22/2011  
Owner: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55812  
SI Type: Aboveground Storage Tank  
Leak Reported: 07/08/2011

LUST:

Name: UNIVERSITY OF MN DULUTH SAGE BUILDING  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item ID: 116768-AREA0000000001  
MN PCA ID: 60552293  
AI ID: 116768  
AI Name: NRRI- Sage Building- University of Duluth  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Lauralin Kania (former)  
Latitude: 46.83599568  
Longitude: -92.20701741  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/116768>  
Leak Discovered: 07/08/2011  
Application / Notification Received: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: University Of Minnesota Duluth  
Site Closed: 11/22/2011  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55812  
SI Type: Underground Storage Tank System  
Leak Reported: 07/08/2011

0816:  
Program IN: 60552293  
Facility Address 2: 3151 Miller Trunk Hwy  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 18454  
Township Name: Whiteface Reservoir  
Addr ID: 197387  
Active Flag: N  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 07/22/2011 00:00:00  
Interest End Date: 07/02/2014 13:33:07  
Source: CORE  
Site ID: 220770  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: Not reported  
Cubic Yards Excavated: Not reported  
Cond Closure Date: Not reported  
Complete Site Closure Date: 11/22/2011 00:00:00  
Contaminated Soils Remaining: Y  
Enforcement Action Begin Date: 07/27/2011  
Last Trust Eligible: N  
Offsite Contamination: N  
Reimbursement Awarded: N  
Release Discovered Date: 07/08/2011  
Leak Reported Date: 07/08/2011  
Std Letter Response Date: 08/18/2011  
Surface Water Impact: N  
Utility Project Flag: N  
TMSP Added: 07/22/2011 09:08:48  
TMSP Last Update: 12/12/2011 16:05:19  
Staff ID Last Update: LKANIA  
Release From LAST: N  
Release From LUST: Y  
Tank Registration Status Code: N  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: N  
Soil Gas Data Collected Flag: N  
Soil Gas Action Level Flag: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

**GW Info:**

MN PCA ID: 60552293  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: N  
GW Cleanup Goal: Not reported  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 11/18/2011 16:09:41  
TMSP Last Update: 11/18/2011 16:09:45  
Staff Id Last Update: LKANIA  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: N  
Staff Id Ass: 3301  
PWS Well: N  
Prot Flag: N  
Sens Flag: N

**Prodrel:**

MN PCA ID: 60552293  
Prod Released Sequence Id: 142900  
Leak Product: 8  
Tmsp Added: 07/22/2011 09:08:48  
Tmsp Last\_updt: 07/22/2011 09:08:48  
Staff Id Last Updt: KLEWISO

**UST:**

Name: NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item Compant ID: 116768-EQUI0000000001-1  
AI ID: 116768  
Tank Site ID: TS0009459  
Item ID: 116768-EQUI0000000001  
SI Type: Underground Storage Tank System  
SI Design: 55  
SI Description: 30,000 gal/Fuel Oil/Removed  
Compartment Number: 1  
Substance: Fuel Oil  
Wall Type: Single

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Overfill Prevention System: UST Not needed  
Install Date: 1956-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1992-10-07 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 30000  
Longitude: -92.20785182  
Latitude: 46.8352115  
Coord Collection Method: Address Matching House Number  
Owner: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55812  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0009459>  
Name: NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item Compartment ID: 116768-EQUI0000000002-1  
AI ID: 116768  
Tank Site ID: TS0009459  
Item ID: 116768-EQUI0000000002  
SI Type: Underground Storage Tank System  
SI Design: 53  
SI Description: 30,000 gal/Fuel Oil/Removed  
Compartment Number: 1  
Substance: Fuel Oil  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1956-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1992-10-07 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 30000  
Longitude: -92.20785182  
Latitude: 46.8352115  
Coord Collection Method: Address Matching House Number  
Owner: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55812  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0009459>  
Name: NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item Compartment ID: 116768-EQUI0000000003-1  
AI ID: 116768  
Tank Site ID: TS0009459  
Item ID: 116768-EQUI0000000003  
SI Type: Underground Storage Tank System  
SI Design: 52  
SI Description: 15,000 gal/Fuel Oil/Removed  
Compartment Number: 1  
Substance: Fuel Oil

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1956-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1992-10-07 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 15000  
Longitude: -92.20785182  
Latitude: 46.8352115  
Coord Collection Method: Address Matching House Number  
Owner: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55812  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0009459>  
Name: NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item Compart ID: 116768-EQUI0000000004-1  
AI ID: 116768  
Tank Site ID: TS0009459  
Item ID: 116768-EQUI0000000004  
SI Type: Underground Storage Tank System  
SI Design: 54  
SI Description: 30,000 gal/Fuel Oil/Removed  
Compartment Number: 1  
Substance: Fuel Oil  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1956-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1992-10-07 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 30000  
Longitude: -92.20785182  
Latitude: 46.8352115  
Coord Collection Method: Address Matching House Number  
Owner: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55812  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0009459>  
Name: NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item Compart ID: 116768-EQUI0000000005-1  
AI ID: 116768  
Tank Site ID: TS0009459  
Item ID: 116768-EQUI0000000005  
SI Type: Underground Storage Tank System  
SI Design: 51  
SI Description: 1,000 gal/Diesel/Removed  
Compartment Number: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Substance: Diesel  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1956-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 2009-07-02 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 1000  
Longitude: -92.20785182  
Latitude: 46.8352115  
Coord Collection Method: Address Matching House Number  
Owner: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55812  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0009459>  
Name: NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item Compartment ID: 116768-EQUI0000000006-1  
AI ID: 116768  
Tank Site ID: TS0009459  
Item ID: 116768-EQUI0000000006  
SI Type: Underground Storage Tank System  
SI Design: 57  
SI Description: 560 gal/Fuel Oil/Removed  
Compartment Number: 1  
Substance: Fuel Oil  
Wall Type: Single  
Overfill Prevention System: UST Automatic shutoff  
Install Date: 1997-11-30 00:00:00  
Material: STI-P3  
Status Change Date: 2011-07-08 00:00:00  
Tank Status: Removed  
Tanks Contractor: Not reported  
Capacity Gallons: 560  
Longitude: -92.20785182  
Latitude: 46.8352115  
Coord Collection Method: Address Matching House Number  
Owner: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55812  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0009459>  
Name: NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Item Compartment ID: 116768-EQUI0000000007-1  
AI ID: 116768  
Tank Site ID: TS0009459  
Item ID: 116768-EQUI0000000007  
SI Type: Underground Storage Tank System  
SI Design: 56  
SI Description: 2,000 gal/Used or waste oil/Closed In-Place

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Compartment Number: 1  
Substance: Used or waste oil  
Wall Type: Single  
Overfill Prevention System: UST Not needed  
Install Date: 1955-01-01 00:00:00  
Material: Bare/Paint/Asph Coat Steel  
Status Change Date: 1955-01-01 00:00:00  
Tank Status: Closed In-Place  
Tanks Contractor: Not reported  
Capacity Gallons: 2000  
Longitude: -92.20785182  
Latitude: 46.8352115  
Coord Collection Method: Address Matching House Number  
Owner: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55812  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0009459>

UST Prior to 08/2016:

Envid: U000888908  
Program Interest Id: 198669  
Facility Address 2: 3151 Miller Trunk Hwy  
Address Id: 197387  
MPCA Tank Number: 051  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 1  
Substance: 10  
Client Tank Number: 051  
AST Base Material: Not reported  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: 2  
Tank Status Code: 5  
Tank Capacity: 1000  
Tank Registration Date: 05/12/1987 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: U  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:19  
Date Last Updated: 01/23/2013 22:40:48  
Staff Id Who Did The Last Update: JBRANDO  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 9459

Envid: U000888908  
Program Interest Id: 198669  
Facility Address 2: 3151 Miller Trunk Hwy

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Address Id: 197387  
MPCA Tank Number: 054  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 5  
Substance: 13  
Client Tank Number: 054  
AST Base Material: Not reported  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: 2  
Tank Status Code: 5  
Tank Capacity: 30000  
Tank Registration Date: 05/12/1987 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Y  
HazWaste Generator Id: MND175344886  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:11  
Date Last Updated: 01/07/2013 10:49:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 9459

Envid: U000888908  
Program Interest Id: 198669  
Facility Address 2: 3151 Miller Trunk Hwy  
Address Id: 197387  
MPCA Tank Number: 055  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 1  
Substance: 13  
Client Tank Number: 055  
AST Base Material: Not reported  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: 2  
Tank Status Code: 5  
Tank Capacity: 30000  
Tank Registration Date: 05/12/1987 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Y  
HazWaste Generator Id: MND175344886  
Product Replaced Date: Not reported  
Comments: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Date Added: 10/10/1999 10:56:27  
Date Last Updated: 01/07/2013 10:49:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 9459

Envid: U000888908  
Program Interest Id: 198669  
Facility Address 2: 3151 Miller Trunk Hwy  
Address Id: 197387  
MPCA Tank Number: 052  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 5  
Substance: 13  
Client Tank Number: 052  
AST Base Material: Not reported  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: 2  
Tank Status Code: 5  
Tank Capacity: 15000  
Tank Registration Date: 05/12/1987 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Y  
HazWaste Generator Id: MND175344886  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:57:04  
Date Last Updated: 01/07/2013 10:49:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 9459

Envid: U000888908  
Program Interest Id: 198669  
Facility Address 2: 3151 Miller Trunk Hwy  
Address Id: 197387  
MPCA Tank Number: 053  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 5  
Substance: 13  
Client Tank Number: 053  
AST Base Material: Not reported  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Tank Material: 1  
Tank Dispenser Code: 2  
Tank Status Code: 5  
Tank Capacity: 30000  
Tank Registration Date: 05/12/1987 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Y  
HazWaste Generator Id: MND175344886  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 10/10/1999 10:56:57  
Date Last Updated: 01/07/2013 10:49:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 9459

Envid: U000888908  
Program Interest Id: 198669  
Facility Address 2: 3151 Miller Trunk Hwy  
Address Id: 197387  
MPCA Tank Number: '1  
Above/Under Ground: 2  
Piping Cathodic Protection: 4  
Tank Cathodic Protection: 1  
Substance: 13  
Client Tank Number: 057  
AST Base Material: Not reported  
Piping Material: 14  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: 1  
Tank Material: 6  
Tank Dispenser Code: 2  
Tank Status Code: 5  
Tank Capacity: 560  
Tank Registration Date: 10/12/1998 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 08/26/2009 12:02:10  
Date Last Updated: 01/07/2013 10:49:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 9459

Envid: U000888908  
Program Interest Id: 198669  
Facility Address 2: 3151 Miller Trunk Hwy  
Address Id: 197387

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

MPCA Tank Number: '2  
Above/Under Ground: 2  
Piping Cathodic Protection: 3  
Tank Cathodic Protection: 5  
Substance: 24  
Client Tank Number: 056  
AST Base Material: Not reported  
Piping Material: 1  
Piping Material Desc: Not reported  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 1  
Tank Dispenser Code: Not reported  
Tank Status Code: 6  
Tank Capacity: 2000  
Tank Registration Date: 03/17/1989 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Comments: Not reported  
Date Added: 08/26/2009 12:04:22  
Date Last Updated: 01/07/2013 10:49:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: Y  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 9459

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: GZARLIN  
Program Id: 198669  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Main Site Building  
TMSP Added: 04/29/2010 18:59:07  
Date Last Updated: 05/02/2011 07:56:42  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 9.56  
Longitude Degree: -92  
Longitude Minute: 12  
Longitude Second: 25.26  
Staff Id Who Did The Last Update: MAPTOOL  
Program Id: 198669  
Latlong ID: 163168  
Collection Date: 12/06/2011 08:06:44

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

LatLong Description: Not reported  
TMSP Added: 03/29/2010 18:43:04  
Date Last Updated: 12/06/2011 08:06:45  
Coord Source Type: Not reported  
Org Name Source: Not reported

Insrem:

Piping Material: Not reported  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: JHENRY

Piping Material: 1  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Piping Material: 9  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Tab site:

Facility Code: 10  
Staff Id Who Did The Last Update: SYS  
Program Interest Id: 198669  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: 05/12/1987 00:00:00  
AST Registration Date: 02/12/1996 00:00:00  
Date Added: 07/23/1992 19:11:05  
Date Last Updated: 05/23/2003 09:21:02  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

Tank A:

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 051  
Above Or Underground: 1  
Tank Action ID: 326026  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 052  
Above Or Underground: 1  
Tank Action ID: 264639  
Contractor Number: 227  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 10/07/1992 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 052  
Above Or Underground: 1  
Tank Action ID: 312883  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 053  
Above Or Underground: 1  
Tank Action ID: 260785  
Contractor Number: 227  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 10/07/1992 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 053  
Above Or Underground: 1  
Tank Action ID: 306325  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 054  
Above Or Underground: 1  
Tank Action ID: 268550  
Contractor Number: 227  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 10/07/1992 00:00:00  
Action Date Unknown: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 054  
Above Or Underground: 1  
Tank Action ID: 319440  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 055  
Above Or Underground: 1  
Tank Action ID: 245121  
Contractor Number: 277  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 10/07/1992 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 055  
Above Or Underground: 1  
Tank Action ID: 279907  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: NBLASIN  
MPCA Tank Number: 051  
Above Or Underground: 1  
Tank Action ID: 954537  
Contractor Number: 233  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 07/02/2009 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Lab Flag: Not reported  
Date Added: 07/10/2009 09:03:12  
Date Last Updated: 07/10/2009 09:03:12

Staff Id Who Did The Last Update: JBRANDO  
MPCA Tank Number: 051  
Above Or Underground: 1  
Tank Action ID: 1007309  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: Not reported  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 01/23/2013 22:40:59  
Date Last Updated: 01/23/2013 22:40:59

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: '1  
Above Or Underground: 1  
Tank Action ID: 986311  
Contractor Number: 695  
Supervisor Number: 3444  
Tank Action: 1  
Action Date: 07/08/2011 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 08/03/2011 13:45:43  
Date Last Updated: 08/03/2011 13:45:43

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: '1  
Above Or Underground: 1  
Tank Action ID: 956930  
Contractor Number: 17  
Supervisor Number: 6444  
Tank Action: 1  
Action Date: 11/30/1997 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 08/26/2009 12:03:05  
Date Last Updated: 08/26/2009 12:03:05

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: '2  
Above Or Underground: 1  
Tank Action ID: 956931  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1955 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Date Added: 08/26/2009 12:14:28  
Date Last Updated: 08/26/2009 12:14:28

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: '2  
Above Or Underground: 1  
Tank Action ID: 956932  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: Not reported  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 08/26/2009 12:14:48  
Date Last Updated: 08/26/2009 12:14:48

Tank C:

MPCA Tank Number: 055  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 30000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:57:56  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 054  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 30000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:37  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 052  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 15000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:30  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 051  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 10  
Tank Stored Product Desc: DIESEL  
Compartment Cap: 1000



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:44  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 053  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 30000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:23  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 1056  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL 1-2  
Compartment Cap: 612  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:59:04  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: '1  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: #2 LIGHT  
Compartment Cap: 560  
Heating: 1  
Other Desc: Not reported  
Date Added: 08/26/2009 12:02:10  
Date Last Updated: 08/03/2011 13:46:03

MPCA Tank Number: '2  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 24  
Tank Stored Product Desc: Not reported  
Compartment Cap: 2000  
Heating: 1  
Other Desc: Not reported  
Date Added: 08/26/2009 12:04:22  
Date Last Updated: 08/26/2009 12:04:22

**AST:**

Name: NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
AI ID: 116768  
Tank Site ID: TS0009459  
Item ID: 116768-EQUI0000000008

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

SI Type: Aboveground Storage Tank  
SI Design: 1056  
SI Description: 612 gal/Fuel Oil #1/Active  
Substance: Fuel Oil #1  
Compartment Number: 1  
Wall Type: Not reported  
Overfill Prevention System: AST None  
Install Date: Not reported  
Status Change Date: 1996-02-12 00:00:00  
Material: Carbon steel  
Tank Status: Active  
Tanks Contractor: Not reported  
Capacity Gallon: 612  
Longitude: -92.20785182  
Latitude: 46.8352115  
Coord Collection Method: Address Matching House Number  
Owner Name: University Of Minnesota Duluth  
Owner Address: 10 University Dr  
Owner City: Duluth  
Owner State: MN  
Owner Zip: 55812  
Tanks URL: <https://webapp.pca.state.mn.us/tank-leak/sites/TS/TS0009459>

AST Prior to 08/2016:  
Program Interest ID: 198669  
Facility Addr 2: 3151 Miller Trunk Hwy  
Address ID: 197387  
MPCA Tank Number: 1056  
Above/Under Ground: 1  
Piping Cathodic Protection: Not reported  
Tank Cathodic Protection: Not reported  
Substance: 13  
Client Tank Number: 1056  
AST Base Material: 6  
Piping Material: 1  
Piping Material Desc: STEEL/IRON  
Secondary Containment Tank: Not reported  
Secondary Containment Pipe: Not reported  
Tank Material: 9  
Tank Dispenser Code: Not reported  
Tank Status Code: 3  
Tank Capacity: 612  
Tank Registration Date: 02/12/1996 00:00:00  
Unregulated Tank Registration Date: Not reported  
Compartmental Tank Flag: Not reported  
Heating Product Flag: Not reported  
HazWaste Generator Id: Not reported  
Product Replaced Date: Not reported  
Sludge Disposal Facility: Not reported  
Comments: Not reported  
Date Added: 06/20/2008 08:57:16  
Date Last Updated: 01/07/2013 10:49:04  
Staff Id Who Did The Last Update: RSUCHAN  
In Compliance: N  
Serial Number: Not reported  
Tank Dual Use: N  
Preferred ID: 9459

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Lat/Long:

Latitude Degree: Not reported  
Latitude Minute: Not reported  
Latitude Second: Not reported  
Longitude Degree: Not reported  
Longitude Minute: Not reported  
Longitude Second: Not reported  
Staff Id Who Did The Last Update: GZARLIN  
Program Id: 198669  
Latlong ID: 0  
Collection Date: Not reported  
LatLong Description: Main Site Building  
TMSP Added: 04/29/2010 18:59:07  
Date Last Updated: 05/02/2011 07:56:42  
Coord Source Type: Not reported  
Org Name Source: Not reported

Latitude Degree: 46  
Latitude Minute: 50  
Latitude Second: 9.56  
Longitude Degree: -92  
Longitude Minute: 12  
Longitude Second: 25.26  
Staff Id Who Did The Last Update: MAPTOOL  
Program Id: 198669  
Latlong ID: 163168  
Collection Date: 12/06/2011 08:06:44  
LatLong Description: Not reported  
TMSP Added: 03/29/2010 18:43:04  
Date Last Updated: 12/06/2011 08:06:45  
Coord Source Type: Not reported  
Org Name Source: Not reported

Insrem:

Piping Material: Not reported  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: JHENRY

Piping Material: 1  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Piping Material: 9  
Action Completed Date: Not reported  
Staff Id Who Did The Last Update: TANKS

Tabsite:

Facility Code: 10  
Staff Id Who Did The Last Update: SYS  
Program Interest Id: 198669  
Above Or Underground: 1  
Indian Reservation: 1  
UST Registration Date: 05/12/1987 00:00:00  
AST Registration Date: 02/12/1996 00:00:00  
Date Added: 07/23/1992 19:11:05  
Date Last Updated: 05/23/2003 09:21:02

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Max Monthly Gallons: Not reported  
Vapor Recovery Installed: 1  
Vapor Notify Required: 1

Tank A:

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 051  
Above Or Underground: 1  
Tank Action ID: 326026  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 052  
Above Or Underground: 1  
Tank Action ID: 264639  
Contractor Number: 227  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 10/07/1992 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 052  
Above Or Underground: 1  
Tank Action ID: 312883  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 053  
Above Or Underground: 1  
Tank Action ID: 260785  
Contractor Number: 227  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 10/07/1992 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Lab Flag: N  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 053  
Above Or Underground: 1  
Tank Action ID: 306325  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 054  
Above Or Underground: 1  
Tank Action ID: 268550  
Contractor Number: 227  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 10/07/1992 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 054  
Above Or Underground: 1  
Tank Action ID: 319440  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 055  
Above Or Underground: 1  
Tank Action ID: 245121  
Contractor Number: 277  
Supervisor Number: 2042  
Tank Action: 1  
Action Date: 10/07/1992 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: TANKS  
MPCA Tank Number: 055  
Above Or Underground: 1  
Tank Action ID: 279907  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1956 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 05/05/2000 08:31:19  
Date Last Updated: 05/04/2002 08:11:22

Staff Id Who Did The Last Update: NBLASIN  
MPCA Tank Number: 051  
Above Or Underground: 1  
Tank Action ID: 954537  
Contractor Number: 233  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 07/02/2009 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 07/10/2009 09:03:12  
Date Last Updated: 07/10/2009 09:03:12

Staff Id Who Did The Last Update: JBRANDO  
MPCA Tank Number: 051  
Above Or Underground: 1  
Tank Action ID: 1007309  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: Not reported  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 01/23/2013 22:40:59  
Date Last Updated: 01/23/2013 22:40:59

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: '1  
Above Or Underground: 1  
Tank Action ID: 986311  
Contractor Number: 695  
Supervisor Number: 3444  
Tank Action: 1  
Action Date: 07/08/2011 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 08/03/2011 13:45:43

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Date Last Updated: 08/03/2011 13:45:43  
  
Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: '1  
Above Or Underground: 1  
Tank Action ID: 956930  
Contractor Number: 17  
Supervisor Number: 6444  
Tank Action: 1  
Action Date: 11/30/1997 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 08/26/2009 12:03:05  
Date Last Updated: 08/26/2009 12:03:05

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: '2  
Above Or Underground: 1  
Tank Action ID: 956931  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: 01/01/1955 00:00:00  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 08/26/2009 12:14:28  
Date Last Updated: 08/26/2009 12:14:28

Staff Id Who Did The Last Update: JHENRY  
MPCA Tank Number: '2  
Above Or Underground: 1  
Tank Action ID: 956932  
Contractor Number: Not reported  
Supervisor Number: Not reported  
Tank Action: 1  
Action Date: Not reported  
Action Date Unknown: 1  
Corrosion Expert Name: Not reported  
Lab Flag: Not reported  
Date Added: 08/26/2009 12:14:48  
Date Last Updated: 08/26/2009 12:14:48

Tank C:  
MPCA Tank Number: 055  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 30000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:57:56  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 054

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 30000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:37  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 052  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 15000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:30  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 051  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 10  
Tank Stored Product Desc: DIESEL  
Compartment Cap: 1000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:44  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 053  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL  
Compartment Cap: 30000  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:58:23  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: 1056  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 13  
Tank Stored Product Desc: FUEL OIL 1-2  
Compartment Cap: 612  
Heating: 1  
Other Desc: Not reported  
Date Added: 10/10/1999 10:59:04  
Date Last Updated: 05/04/2002 08:11:22

MPCA Tank Number: '1  
Above Or Underground: 1  
Compartment Number: 1



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Tank Stored Product Code: 13  
Tank Stored Product Desc: #2 LIGHT  
Compartment Cap: 560  
Heating: 1  
Other Desc: Not reported  
Date Added: 08/26/2009 12:02:10  
Date Last Updated: 08/03/2011 13:46:03

MPCA Tank Number: '2  
Above Or Underground: 1  
Compartment Number: 1  
Tank Stored Product Code: 24  
Tank Stored Product Desc: Not reported  
Compartment Cap: 2000  
Heating: 1  
Other Desc: Not reported  
Date Added: 08/26/2009 12:04:22  
Date Last Updated: 08/26/2009 12:04:22

**SRS:**

Name: UNIVERSITY OF MN DULUTH SAGE BUILDING  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0018454  
Item ID: 116768-AREA0000000001  
AI ID: 116768  
AI Name: NRRI- Sage Building- University of Duluth  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Lauralin Kania (former)  
Latitude: 46.83599568000  
Longitude: -92.20701741000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/116768>  
Leak Discovered: 07/08/2011  
Leak Reported: 07/08/2011  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 11/22/2011  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Activity ID: SIW20110001  
Act Desc: Leak Site Investigation  
Status: Closed

**ASBESTOS:**

Name: NATURAL RESOURCES RESEARCH INSTITUTE  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55812  
Permit Number: 31917  
Contractor: Mavo Systems, Inc.  
Contractor Issue Number: AC200  
Received Date: 01/16/2007  
Begin Date: 12/04/2006  
End Date: 12/06/2006  
On Site Date: Not reported  
Address Code: LCTN  
Permit Type: Commercial  
Work Shift Description: Mon-Fri 0700-1530  
Square Feet: 0  
Cubic Feet: 0  
Linear Feet: 0  
Air Monitoring: Twin Ports Testing, Inc.  
Air Monitoring Cost: N  
Project Cost: 1932  
On Site: Y  
Project Duration: Data not available

Name: NATURAL RESOURCES RESEARCH INSTITUTE  
Address: 5013 MILLER TRUNK HIGHWAY  
City,State,Zip: DULUTH, MN 55812  
Permit Number: 31917  
Contractor: Mavo Systems, Inc.  
Contractor Issue Number: AC200  
Received Date: 11/17/2006  
Begin Date: 12/04/2006  
End Date: 12/06/2006  
On Site Date: Not reported  
Address Code: LCTN  
Permit Type: Commercial  
Work Shift Description: Mon-Fri 0700-1530  
Square Feet: 0  
Cubic Feet: 0  
Linear Feet: 0  
Air Monitoring: Twin Ports Testing, Inc.  
Air Monitoring Cost: N  
Project Cost: 10  
On Site: Y  
Project Duration: Data not available

**MN Enforcement Log :**

Name: U OF M - NRRI  
Address: 5013 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN  
Facility ID: MND175344886  
Violation: 262.A - Generators - General  
Determined Date: 08/24/2000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Determined By: State  
Responsible Agency: Not reported  
RTC Date: 12/20/2000  
Enforcement Sequence: 001  
Effective End Date: 08/25/2000  
Enforcement Type: Letter of Warning  
Lead Agency: State  
Sequence: 5  
AI ID: 38587  
Activity ID: NON20000001  
Public Flag: Y  
Latitude: 46.8359865  
Longitude: -92.2070109  
Coord Collect Meth Desc: Digitized - MPCA internal map  
Mailing Address1: 501 23rd Ave SE  
Mailing City Name: Minneapolis  
Mailing State Code: MN  
Mailing Zip Code: Not reported  
Responsible Party: University of Minnesota Board of Regents (Minneapolis, MN)  
Zero Date: 08/24/2000  
Case Closed: Not reported  
Case Lead: Jennifer Jensen  
Attorney Assigned: Not reported  
Lead Program: Hazardous Waste  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: Not reported  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: Not reported  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: Not reported

**MN Financial Assurance 1:**

PROGRAM ID: 179729  
Township Name: Not reported  
Region: 1  
Interest Type: Spill site  
Facility Addr 2: 3151 Miller Trunk Hwy  
ADDR ID: 197387  
Interest Telephone: Not reported  
Preferred ID: 22002  
Interest Start Date: 03/21/1996  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 03/21/1996  
TMSP Last Update: 04/13/2005 17:26:55  
Staff ID Last Update: CMCLAIN  
Source: TALES  
Source ID: 0  
Country Code: USA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: \*NO FILE\*

PROGRAM ID: 198669  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Tank site  
Facility Addr 2: 3151 Miller Trunk Hwy  
ADDR ID: 197387  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 9459  
Interest Start Date: 07/23/1992  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 08/31/2006  
TMSP Last Update: 08/03/2011 13:35:53  
Staff ID Last Update: JHENRY  
Source: CORE  
Source ID: 220770  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 198669  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site  
Facility Addr 2: 3151 Miller Trunk Hwy  
ADDR ID: 197387  
Interest Telephone: 2187204205  
Preferred ID: 9459  
Interest Start Date: 07/23/1992  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 07/23/1992  
TMSP Last Update: 08/31/2006 11:19:27  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 201438  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Deleted Tank Site  
Facility Addr 2: 3151 Miller Trunk Hwy  
ADDR ID: 197387  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 12613

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Interest Start Date: 07/23/1992  
Interest End Date: 08/26/2009  
Activity Flag: N  
TMSP Added: 08/31/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 220770  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 201438  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site  
Facility Addr 2: 3151 Miller Trunk Hwy  
ADDR ID: 197387  
Interest Telephone: 2187268286  
Preferred ID: 12613  
Interest Start Date: 07/23/1992  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 07/23/1992  
TMSP Last Update: 08/31/2006 14:27:44  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 60552293  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
Facility Addr 2: 3151 Miller Trunk Hwy  
ADDR ID: 197387  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 18454  
Interest Start Date: 07/22/2011  
Interest End Date: 07/02/2014  
Activity Flag: N  
TMSP Added: 07/22/2011  
TMSP Last Update: 11/10/2014 08:17:06  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 220770  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Latitude Longitude:  
Program Id: 60552293  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Main Site Building  
TMSP Added: 07/26/2011 11:14:10  
TMSP Last Update: 12/06/2011 08:07:46  
Staff ID Last Update: ASEKELY  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 220770  
Spatial ID: 60552294

Program Id: 60552293  
Lat/Long ID: 163168  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 9.56  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 25.26  
Collection Date: 12/06/2011 08:06:44  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 18:43:04  
TMSP Last Update: 12/06/2011 08:06:45  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 220770  
Spatial ID: 60552294

Staff Name:  
Program Id: 60552293  
Staff Sequence ID: 142901  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 07/22/2011 09:08:48  
TMSP Last Update: 01/20/2012 10:39:38  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3301

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Latitude Longitude:  
Program Id: 198669  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Main Site Building  
TMSP Added: 04/29/2010 18:59:07  
TMSP Last Update: 05/02/2011 07:56:42  
Staff ID Last Update: GZARLIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 220770  
Spatial ID: 51386120

Program Id: 198669  
Lat/Long ID: 163168  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 9.56  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 25.26  
Collection Date: 12/06/2011 08:06:44  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 18:43:04  
TMSP Last Update: 12/06/2011 08:06:45  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 220770  
Spatial ID: 51386120

Tab Site:  
Program Id: 198669  
Facility Code: 10  
Above or Under Code: 3  
Indian Reservation: N  
Ust Registration Date: 05/12/1987 00:00:00  
Ast Registration Date: 02/12/1996 00:00:00  
TMSP Added: 07/23/1992 19:11:05  
TMSP Last Update: 05/23/2003 09:21:02  
Staff ID Last Update: SYS  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Latitude Longitude:  
Program Id: 201438  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 07/21/2011 12:42:51  
TMSP Last Update: 07/21/2011 12:42:51  
Staff ID Last Update: KLEWISO  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 220770  
Spatial ID: 51388436

Program Id: 201438  
Lat/Long ID: 163168  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 9.56  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 25.26  
Collection Date: 12/06/2011 08:06:44  
Lat/Long Description: Not reported  
TMSP Added: 03/29/2010 18:43:04  
TMSP Last Update: 12/06/2011 08:06:45  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 220770  
Spatial ID: 51388436

Tab Site:  
Program Id: 201438  
Facility Code: 10  
Above or Under Code: 3  
Indian Reservation: N  
Ust Registration Date: 03/17/1989 00:00:00  
Ast Registration Date: Not reported  
TMSP Added: 07/23/1992 19:11:05  
TMSP Last Update: 05/23/2003 09:21:02  
Staff ID Last Update: SYS  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

WIMN:

Name:	NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH
Address:	5013 MILLER TRUNK HIGHWAY 3151 MILLER TRUNK HWY
Address Description:	5013 Miller Trunk Highway 3151 Miller Trunk Hwy
City, State, Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.835991100000001
Longitude:	-92.207017399999998
Item ID:	116768-AISI0000116768
AI ID:	116768
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	116768
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Multiple Programs
Program List:	SR; TL
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	08/31/2006
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	51386119
Activity:	Multiple Activities
Activity List:	Aboveground Tanks; Petroleum Remediation, Leak Site; Underground Tanks
MPCA ID:	Multiple IDs
MPCA List:	LS0018454; TS0009459
Program List:	Investigation and Cleanup; Tanks
Classification:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Site URL: <https://webapp.pca.state.mn.us/wimn/site/116768>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
Latitude: 46.83598650  
Longitude: -92.2070109  
Activity: Hazardous Waste, Small to Minimal QG  
MPCA ID: MND175344886  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Active

Legislative District: 3B  
Latitude: 46.83599112  
Longitude: -92.20701748  
Activity: Multiple Activities  
MPCA ID: Multiple Activities  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Active

Name: U OF M - NRRI  
Address: 5013 MILLER TRUNK HWY  
Address Description: 5013 Miller Trunk Hwy  
City,State,Zip: HERMANTOWN, MN 55811-1442  
Status: Y  
Latitude: 46.835986499999997  
Longitude: -92.2070109  
Item ID: 38587-AISI0000038587  
AI ID: 38587  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 38587  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Hazardous Waste  
Program List: HW  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**NRRI- SAGE BUILDING- UNIVERSITY OF DULUTH (Continued)**

**U000888908**

Section: Not reported  
 Quarters: Not reported  
 Collection Method Code: DM  
 Method Description: Digitized - MPCA internal map  
 Ref Code: GEN  
 Ref Description: General Location  
 Location Verified Flag: N  
 Collection Date: Not reported  
 Timestamp of Creation: 08/03/1999  
 User Name of Creator: DELTA\_M\_R1  
 Timestamp of Last Update: 04/13/2017  
 User Name of Last Update: RSP  
 Status Date: Not reported  
 The Delta Spatial ID: 46031  
 Activity: Hazardous Waste, Very small quantity generator  
 Activity List: Hazardous Waste, Very small quantity generator  
 MPCA ID: MND175344886  
 MPCA List: MND175344886  
 Program List: Hazardous Waste  
 Classification: Colleges, Universities, and Professional Schools  
 Site URL: <https://webapp.pca.state.mn.us/wimn/site/38587>

WIMN Detail as of Aug 2016:

Legislative District: 3B  
 Latitude: 46.83598650  
 Longitude: -92.2070109  
 Activity: Hazardous Waste, Small to Minimal QG  
 MPCA ID: MND175344886  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Active

Legislative District: 3B  
 Latitude: 46.83599112  
 Longitude: -92.20701748  
 Activity: Multiple Activities  
 MPCA ID: Multiple Activities  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Active

**O73**  
**WSW**  
**1/4-1/2**  
**0.470 mi.**  
**2482 ft.**

**BILLMAN HOME CENTER**  
**5010 MILLER TRUNK HWY**  
**DULUTH, MN 55811**

**MN MANIFEST S110182215**  
**MN WIMN N/A**

**Site 2 of 5 in cluster O**

**Relative:**  
**Lower**  
**Actual:**  
**1420 ft.**

**MANIFEST:**  
 Name: BILLMAN HOME CENTER  
 Address: 5010 MILLER TRUNK HWY  
 City,State,Zip: DULUTH, MN 55811  
 Manifest ID: 17989  
 Generator ID: MN0000948000  
 Generator AI ID: 37013  
 Transporter 1 ID: ILD984908202  
 Transporter 1 AI ID: 37702  
 Transporter 1 AI Name: Safety Kleen Corp

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN HOME CENTER (Continued)**

**S110182215**

Transporter 1 Address: 1000 N Randall Rd  
Transporter 1 City: Elgin  
Transporter 1 State: IL  
Transporter 1 ZIP: 60123-2318  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: ILD980613913  
TSD AI ID: 37858  
TSD AI Name: Safety Kleen Envirosystems Inc  
TSD Address: 633 E 138th St  
TSD City: Dolton  
TSD State: IL  
TSD Zip: 60419-1058  
Gen Copy Recd Date: 1/6/1995 0:00:00  
Fac Copy Recd Date: Not reported  
Gen Ship Date: 1993-12-13 00:00:00  
Trans 1 Recd Date: 1993-12-13 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: Not reported  
Comments: Not reported

Contact:

Generator AI ID: 37013  
Generator ID: MN0000948000  
Generator AI Name: Billman Home Center  
Generator Contact: Loring Danielson  
Contact Address: 5010 Miller Trunk Hwy  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: Not reported  
Contact Phone: 218-729-8232

Detail:

Manifest ID: 17989  
Manifest Row: 1  
Haz Material Name: PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: F005

WIMN:

Name: BILLMAN HOME CENTER  
Address: 5010 MILLER TRUNK HWY  
Address Description: 5010 Miller Trunk Hwy  
City,State,Zip: DULUTH, MN 55811

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN HOME CENTER (Continued)**

**S110182215**

Status:	N
Latitude:	46.8354231
Longitude:	-92.208442300000002
Item ID:	37013-AISI0000037013
AI ID:	37013
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	37013
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Hazardous Waste
Program List:	HW
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	09/27/2015
Timestamp of Creation:	07/29/1999
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	05/31/2014
The Delta Spatial ID:	45582
Activity:	Hazardous Waste
Activity List:	Hazardous Waste
MPCA ID:	MN0000948000
MPCA List:	MN0000948000
Program List:	Hazardous Waste
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/37013">https://webapp.pca.state.mn.us/wimn/site/37013</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.83508211
Longitude:	-92.20824279

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BILLMAN HOME CENTER (Continued)**

**S110182215**

Activity:	Hazardous Waste, Small to Minimal QG
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive

**O74**  
**WSW**  
 1/4-1/2  
 0.470 mi.  
 2482 ft.

**BILLMAN CONSTRUCTION, INC.**  
**5010 MILLER TRUNK HWY**  
**HERMANTOWN, MN 55811**

Site 3 of 5 in cluster O

**MN LUST** 1004272461  
**MN SRS** N/A  
**MN ENF**  
**MN Financial Assurance**  
**MN NPDES**  
**MN WIMN**

Relative:  
 Lower

Actual:  
 1420 ft.

**LUST:**

Name:	BILLMAN CONSTRUCTION COMPANY
Address:	5010 MILLER TRUNK HIGHWAY
City,State,Zip:	HERMANTOWN, MN 55811
Item ID:	202262-AREA0000000001
MNPCA ID:	232998
AI ID:	202262
AI Name:	Billman Construction Company
Site Type:	Leak Site
Hydro:	Not reported
Project Manager:	Jim McCann (former)
Latitude:	46.83376771
Longitude:	-92.20910969
Coord Collection Method:	Digitized - MPCA internal map
Migrated:	Not reported
WIMN:	<a href="https://webapp.pca.state.mn.us/wimn/site/202262">https://webapp.pca.state.mn.us/wimn/site/202262</a>
Leak Discovered:	09/02/1997
Application / Notification Received:	Not reported
Site Listed on PLP:	Not reported
Site Delisted from PLP:	Not reported
Site Listed on NPL:	Not reported
Site Deleted from NPL:	Not reported
Owner:	Not reported
Site Closed:	10/07/2002
Owner Address:	Not reported
Owner City:	Not reported
Owner State:	Not reported
Owner ZIP:	Not reported
SI Type:	Not reported
Leak Reported:	01/09/2002

**0816:**

Program IN:	232998
Facility Address 2:	Not reported
State Code:	MN
Country Code:	USA
Foreign State:	Not reported
Foreign Zone:	Not reported
Leak ID:	14598
Township Name:	Whiteface Reservoir
Addr ID:	296407
Active Flag:	N
Interest Type:	LS
Interest Phone:	NO CORE PI PH.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Interest Start Date: 01/10/2002 00:00:00  
Interest End Date: 12/04/2006 08:48:10  
Source: CORE  
Site ID: 248161  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: Not reported  
Cubic Yards Excavated: Not reported  
Cond Closure Date: Not reported  
Complete Site Closure Date: 10/07/2002 00:00:00  
Contaminated Soils Remaining: U  
Enforcement Action Begin Date: 01/15/2002  
Last Trust Eligible: Y  
Offsite Contamination: U  
Reimbursement Awarded: N  
Release Discovered Date: 09/02/1997  
Leak Reported Date: 01/09/2002  
Std Letter Response Date: 01/24/2002  
Surface Water Impact: U  
Utility Project Flag: N  
TMSP Added: 01/10/2002 16:35:24  
TMSP Last Update: 10/07/2002 15:15:01  
Staff ID Last Update: JMCCANN  
Release From LAST: N  
Release From LUST: Y  
Tank Registration Status Code: F  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: Not reported  
Soil Gas Data Collected Flag: Not reported  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

GW Info:

MN PCA ID: 232998  
Dw Supply Contam: N  
Free Product Observed: N  
Free Product Thickness: Not reported  
Ground Water Contam: Y  
GW Cleanup Goal: Not reported  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 01/10/2002 16:35:24  
TMSP Last Update: 11/04/2003 12:57:09  
Staff Id Last Update: RSUCHAN  
Mtbe Present Now: N  
Mtbe Present Historically: N  
Mtbe High Ug Per Liter Char: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: N  
Staff Id Ass: Not reported  
PWS Well: Not reported  
Prot Flag: Not reported  
Sens Flag: Not reported

Prodrel:

MN PCA ID: 232998  
Prod Released Sequence Id: 29771  
Leak Product: 1  
Tmsp Added: 07/03/2002 14:06:33  
Tmsp Last\_updt: 07/03/2002 14:06:33  
Staff Id Last Updt: JMCCANN

MN PCA ID: 232998  
Prod Released Sequence Id: 31569  
Leak Product: 5  
Tmsp Added: 10/31/2002 10:37:50  
Tmsp Last\_updt: 10/31/2002 10:37:50  
Staff Id Last Updt: JMCCANN

SRS:

Name: BILLMAN CONSTRUCTION COMPANY  
Address: 5010 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: LS0014598  
Item ID: 202262-AREA0000000001  
AI ID: 202262  
AI Name: Billman Construction Company  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Jim McCann (no longer at MPCA)  
Latitude: 46.83376771000  
Longitude: -92.20910969000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/202262>  
Leak Discovered: 09/02/1997  
Leak Reported: 01/09/2002  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 10/07/2002  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20020001  
Act Desc: Leak Site Investigation  
Status: Closed

MN Enforcement Log :

Name: BILLMAN CONSTRUCTION INC  
Address: 5010 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Facility ID: MNG490105  
Violation: Not reported  
Determined Date: Not reported  
Determined By: Not reported  
Responsible Agency: Not reported  
RTC Date: Not reported  
Enforcement Sequence: Not reported  
Effective End Date: 05/12/2014  
Enforcement Type: APO - Combination Forgivable & Nonforgivable  
Lead Agency: Not reported  
Sequence: Not reported  
AI ID: 6679  
Activity ID: PEN20140001  
Public Flag: Y  
Latitude: 46.8350821  
Longitude: -92.2082428  
Coord Collect Meth Desc: Address Matching House Number  
Mailing Address1: 5010 Miller Trunk Hwy  
Mailing City Name: Duluth  
Mailing State Code: MN  
Mailing Zip Code: 55811  
Responsible Party: Billman Construction Inc (Duluth, MN)  
Zero Date: 04/03/2014  
Case Closed: 9/22/2014  
Case Lead: Craig Weingart  
Attorney Assigned: Adonis Neblett  
Lead Program: Wastewater  
Multimedia: N  
Multimedia Desc: N  
SEP Amount: Not reported  
Calculated: Not reported  
Citation: Not reported  
Civil: Not reported  
Forgivable: 1,750  
Incurred - Administrative: Not reported  
Incurred - Civil: Not reported  
Interest: Not reported  
Nonforgivable: 1220  
Not Abated: Not reported  
SEP Abandonment: Not reported  
Grand Total: 2970

MN Financial Assurance 1:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

PROGRAM ID: 232998  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Leak Site  
ADDR ID: 296407  
Interest Telephone: Not reported  
Preferred ID: 14598  
Interest Start Date: 01/10/2002  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 01/10/2002  
TMSP Last Update: 12/04/2006 08:48:10  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 232998  
Township Name: Whiteface Reservoir  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 296407  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 14598  
Interest Start Date: 01/10/2002  
Interest End Date: 12/04/2006  
Activity Flag: N  
TMSP Added: 12/04/2006  
TMSP Last Update: 11/10/2014 08:17:05  
Staff ID Last Update: RGAGLE  
Source: CORE  
Source ID: 248161  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 57491179  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 296407  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 125270  
Interest Start Date: 01/28/2010  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 01/28/2010  
TMSP Last Update: 05/04/2011 15:35:23  
Staff ID Last Update: JHENRY  
Source: CORE  
Source ID: 57491176

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 232998  
Lat/Long ID: 12267  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 7.3564  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 32.1916  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 08/03/2004 12:34:15  
TMSP Last Update: 06/03/2008 10:24:20  
Staff ID Last Update: SCHILD  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: IU  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 248161  
Spatial ID: 51858951

Program Id: 232998  
Lat/Long ID: 134543  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 1.58  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 32.79  
Collection Date: 06/03/2008 10:23:51  
Lat/Long Description: Not reported  
TMSP Added: 12/04/2006 08:48:31  
TMSP Last Update: 06/03/2008 10:23:52  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 248161  
Spatial ID: 51858951

Staff Name:  
Program Id: 232998  
Staff Sequence ID: 25666  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 01/10/2002 16:35:40  
TMSP Last Update: 01/20/2012 10:39:37

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 81

Latitude Longitude:  
Program Id: 57491179  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 04/09/2011 16:25:25  
TMSP Last Update: 04/09/2011 16:25:25  
Staff ID Last Update: JBRANDO  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 57491176  
Spatial ID: 57491180

Program Id: 57491179  
Lat/Long ID: 185324  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 6.29  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 29.67  
Collection Date: 05/06/2011 12:03:47  
Lat/Long Description: Not reported  
TMSP Added: 04/01/2010 13:35:50  
TMSP Last Update: 05/06/2011 12:42:33  
Staff ID Last Update: MAPT\_NC  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: A1  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 57491176  
Spatial ID: 57491180

Tab Site:  
Program Id: 57491179  
Facility Code: 19  
Above or Under Code: 1  
Indian Reservation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Ust Registration Date: Not reported  
Ast Registration Date: 12/28/2009 00:00:00  
TMSP Added: 01/28/2010 15:59:25  
TMSP Last Update: 01/28/2010 15:59:25  
Staff ID Last Update: JHENRY  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: Not reported  
Vapor Notif Required: Not reported

**NPDES:**

Name: Not reported  
Address: 5010 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Active: Not reported  
Activity ID: Not reported  
Preferred ID: MNG490105  
Activity Sys ID: Not reported  
Activity Type: Not reported  
Activity Type Code: Not reported  
Effective Start Date: 02/28/2014  
End Date: Not reported  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.8347047  
Longitude Degree: -92.2076145  
Location Description: Not reported  
New Imp Area: Not reported  
Old Imp Area: Not reported  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Not reported  
Owner Organization Type: Not reported  
Permit Sys ID: Not reported  
Project Name: Not reported  
Project Size: Not reported  
Termination Date: Not reported  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: St. Louis River  
HUC: 04010201  
Expiration Date: Not reported  
Effective Permit: N  
NPDES Flag: NPDES/SDS  
Major Minor: EPA Minor  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Data Manager  
Permit Writer: Theresa Haugen  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Address Matching House Number

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Contractor Name: Not reported

Name: BILLMAN CONSTRUCTION INC  
Address: 5010 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Active: Inactive  
Activity ID: MNR0537XZ  
Preferred ID: Not reported  
Activity Sys ID: 6679  
Activity Type: Not reported  
Activity Type Code: Not reported  
Effective Start Date: 05/22/2014  
End Date: Not reported  
Alternative Method: Not reported  
Coverage Date: Not reported  
Latitude Degree: 46.8350821  
Longitude Degree: -92.2082428  
Location Description: Site along road used for address match  
New Imp Area: Not reported  
Old Imp Area: Not reported  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Billman Construction Inc  
Owner Organization Type: Not reported  
Permit Sys ID: 131958  
Project Name: Not reported  
Project Size: Not reported  
Termination Date: Not reported  
Acres: 56  
Activity Description: Sand and gravel mining. als reclaim and repurpose asphalt and concrete  
No Exposure: No  
One Mile: Not reported  
Permit Type: Industrial Stormwater Permit  
Sector List: J  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported  
Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Not reported

**WIMN:**

Name: BILLMAN CONSTRUCTION COMPANY  
Address: 5010 MILLER TRUNK HIGHWAY  
Address Description: 5010 Miller Trunk Highway  
City,State,Zip: HERMANTOWN, MN 55811  
Status: Y  
Latitude: 46.833773299999997

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Longitude: -92.209109600000005  
Item ID: 202262-AISI0000202262  
AI ID: 202262  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 202262  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Investigation and Cleanup  
Program List: SR  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DM  
Method Description: Digitized - MPCA internal map  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 04/26/2016  
Timestamp of Creation: 12/04/2006  
User Name of Creator: DELTA\_M\_R2  
Timestamp of Last Update: 04/26/2016  
User Name of Last Update: spatial\_  
Status Date: Not reported  
The Delta Spatial ID: 51858950  
Activity: Petroleum Remediation, Leak Site  
Activity List: Petroleum Remediation, Leak Site  
MPCA ID: LS0014598  
MPCA List: LS0014598  
Program List: Investigation and Cleanup  
Classification: Not reported  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/202262>

WIMN Detail as of Aug 2016:  
Legislative District: 03B  
Latitude: 46.83508210  
Longitude: -92.20824279  
Activity: Multiple Activities  
MPCA ID: Multiple Activities

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Major Watershed: St. Louis River  
 Coordinate Collection Method: Address Matching House Number  
 Status: Inactive

Legislative District: 3B  
 Latitude: 46.83377329  
 Longitude: -92.20910960  
 Activity: Leak Site  
 MPCA ID: 14598  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Digitized - Map Tool  
 Status: Inactive

Legislative District: 3B  
 Latitude: 46.83508211  
 Longitude: -92.20824279  
 Activity: Tank Site  
 MPCA ID: 125270  
 Major Watershed: St. Louis River  
 Coordinate Collection Method: Address Matching House Number  
 Status: Active

Name: BILLMANS CONSTRUCTION  
 Address: 5010 MILLER TRUNK HIGHWAY  
 Address Description: 5010 Miller Trunk Highway  
 City,State,Zip: HERMANTOWN, MN 55811  
 Status: Y  
 Latitude: 46.83508210000001  
 Longitude: -92.208242799999994  
 Item ID: 134993-AISI0000134993  
 AI ID: 134993  
 Document ID: 0  
 Subject Item Type Code: CON  
 Subject Item Category Code: AISI  
 Subject Item ID: 134993  
 Subject Item Category Description: Agency Interest  
 Subject Item Type Description: Conventional Site  
 Description: Not reported  
 Subject Item Designation: Not reported  
 MPCA Program: Tanks  
 Program List: TL  
 City, Township or Unorganized code: 239436  
 City, Township or Unorganized Name: Hermantown  
 Congressional District Code: 8  
 House District: 3B  
 Senate District: 3  
 USGS 8-digits: 04010201  
 USGS 8-digits Name: St. Louis River  
 USGS 10-digits: 0401020116  
 USGS 12-digits: 040102011604  
 USGS 12-digits Name: Saint Louis River  
 MDH Drinking Water Management Code: Not reported  
 MDH Drinking Water Management Name: Not reported  
 Location Description: Not reported  
 Township, Range, Direction, Section QQ: Not reported  
 PLS Township: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: A1  
Method Description: Address Matching House Number  
Ref Code: GEN  
Ref Description: General Location  
Location Verified Flag: N  
Collection Date: 09/27/2015  
Timestamp of Creation: 01/28/2010  
User Name of Creator: DELTA\_M\_R1  
Timestamp of Last Update: 04/26/2016  
User Name of Last Update: spatial\_  
Status Date: Not reported  
The Delta Spatial ID: 57491177  
Activity: Aboveground Tanks  
Activity List: Aboveground Tanks  
MPCA ID: TS0125270  
MPCA List: TS0125270  
Program List: Tanks  
Classification: Not reported  
Site URL: <https://webapp.pca.state.mn.us/wimn/site/134993>

WIMN Detail as of Aug 2016:

Legislative District: 03B  
Latitude: 46.83508210  
Longitude: -92.20824279  
Activity: Multiple Activities  
MPCA ID: Multiple Activities  
Major Watershed: St. Louis River  
Coordinate Collection Method: Address Matching House Number  
Status: Inactive

Legislative District: 3B  
Latitude: 46.83377329  
Longitude: -92.20910960  
Activity: Leak Site  
MPCA ID: 14598  
Major Watershed: St. Louis River  
Coordinate Collection Method: Digitized - Map Tool  
Status: Inactive

Legislative District: 3B  
Latitude: 46.83508211  
Longitude: -92.20824279  
Activity: Tank Site  
MPCA ID: 125270  
Major Watershed: St. Louis River  
Coordinate Collection Method: Address Matching House Number  
Status: Active

Name: BILLMAN CONSTRUCTION, INC.  
Address: 5010 MILLER TRUNK HWY  
Address Description: 5010 Miller Trunk Hwy  
City,State,Zip: HERMANTOWN, MN 55811  
Status: Y

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

Latitude:	46.83470475
Longitude:	-92.207614500000005
Item ID:	Not reported
AI ID:	197738
Document ID:	Not reported
Subject Item Type Code:	Not reported
Subject Item Category Code:	Not reported
Subject Item ID:	Not reported
Subject Item Category Description:	Not reported
Subject Item Type Description:	Not reported
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	SSTS
Program List:	SS
City, Township or Unorganized code:	Not reported
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	Not reported
USGS 12-digits:	Not reported
USGS 12-digits Name:	Not reported
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	Not reported
Ref Description:	Not reported
Location Verified Flag:	Not reported
Collection Date:	Not reported
Timestamp of Creation:	Not reported
User Name of Creator:	Not reported
Timestamp of Last Update:	Not reported
User Name of Last Update:	Not reported
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	SSTS, Licensed Organization
Activity List:	SSTS, Licensed Organization
MPCA ID:	L1328
MPCA List:	L1328
Program List:	SSTS
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/197738">https://webapp.pca.state.mn.us/wimn/site/197738</a>
WIMN Detail as of Aug 2016:	
Legislative District:	03B
Latitude:	46.83508210
Longitude:	-92.20824279
Activity:	Multiple Activities

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive
Legislative District:	3B
Latitude:	46.83377329
Longitude:	-92.20910960
Activity:	Leak Site
MPCA ID:	14598
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive
Legislative District:	3B
Latitude:	46.83508211
Longitude:	-92.20824279
Activity:	Tank Site
MPCA ID:	125270
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active
Name:	BILLMAN CONSTRUCTION INC
Address:	5010 MILLER TRUNK HWY
Address Description:	5010 Miller Trunk Hwy
City,State,Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.83508210000001
Longitude:	-92.208242799999994
Item ID:	Not reported
AI ID:	6679
Document ID:	Not reported
Subject Item Type Code:	Not reported
Subject Item Category Code:	Not reported
Subject Item ID:	Not reported
Subject Item Category Description:	Not reported
Subject Item Type Description:	Not reported
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Multiple Programs
Program List:	ST; WW
City, Township or Unorganized code:	Not reported
City, Township or Unorganized Name:	Not reported
Congressional District Code:	Not reported
House District:	Not reported
Senate District:	Not reported
USGS 8-digits:	Not reported
USGS 8-digits Name:	Not reported
USGS 10-digits:	Not reported
USGS 12-digits:	Not reported
USGS 12-digits Name:	Not reported
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**BILLMAN CONSTRUCTION, INC. (Continued)**

**1004272461**

PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number
Ref Code:	Not reported
Ref Description:	Not reported
Location Verified Flag:	Not reported
Collection Date:	Not reported
Timestamp of Creation:	Not reported
User Name of Creator:	Not reported
Timestamp of Last Update:	Not reported
User Name of Last Update:	Not reported
Status Date:	Not reported
The Delta Spatial ID:	Not reported
Activity:	Multiple Activities
Activity List:	Industrial Stormwater; Wastewater, Industrial NPDES/SDS Permit
MPCA ID:	Multiple IDs
MPCA List:	MNG490105; MNR0537XZ
Program List:	Stormwater; Water Quality
Classification:	Not reported
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/6679">https://webapp.pca.state.mn.us/wimn/site/6679</a>
 WIMN Detail as of Aug 2016:	
Legislative District:	03B
Latitude:	46.83508210
Longitude:	-92.20824279
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Inactive
Legislative District:	3B
Latitude:	46.83377329
Longitude:	-92.20910960
Activity:	Leak Site
MPCA ID:	14598
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Inactive
Legislative District:	3B
Latitude:	46.83508211
Longitude:	-92.20824279
Activity:	Tank Site
MPCA ID:	125270
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**75**  
**WSW**  
**1/4-1/2**  
**0.488 mi.**  
**2577 ft.**

**KWIK TRIP #220 CARWASH ADDITION**  
**4978 MILLER TRUNK HIGHWAY**  
**HERMANTOWN, MN 55811**

**MN VIC** S116502650  
**MN BROWNFIELDS** N/A  
**MN SRS**  
**MN SPILLS**  
**MN Financial Assurance**  
**MN NPDES**  
**MN WIMN**

**Relative:**  
**Lower**

**Actual:**  
**1417 ft.**

VIC:

Name: KWIK TRIP STORE 220  
 Address: 4978 MILLER TRUNK HIGHWAY  
 City,State,Zip: HERMANTOWN, MN 55811  
 Facility ID: VP31160  
 Facility Type: CON  
 Item ID: 186588-AREA0000000001  
 AI ID: 186588  
 AI Name: Kwik Trip Store 220  
 Hydro: Not reported  
 Project Manager: Andrew Nichols (former)  
 Latitude: 46.83344679000  
 Longitude: -92.20744149000  
 Coord Collection Method: Digitized - MPCA internal map  
 Migrated: Y  
 WIMN: <https://webapp.pca.state.mn.us/wimn/site/186588>  
 Leak Discovered: Not reported  
 Leak Reported: Not reported  
 Application / Notification Received: 04/08/2014  
 Site Listed on PLP: Not reported  
 Site Delisted from PLP: Not reported  
 Site Listed on NPL: Not reported  
 Site Deleted from NPL: Not reported  
 Site Closed: 02/02/2015  
 Owner: Kwik Trip Inc.  
 Owner Address: 1626 Oak St  
 Owner City: LaCrosse  
 Owner State: WI  
 Owner ZIP: 54601

Prior Aug 2016:

Facility ID: VP31160  
 Facility Address 2: Not reported  
 Core Program Interest ID: 68502896  
 Link ID: 7738  
 Site Type: Other  
 Active?: False  
 Pay Complete: False  
 MPCA Region: Metro  
 Site Size: 8.2799997  
 Score: Not reported  
 Enforcement Lead Agency: Not reported  
 Federal Deferral Pilot?: False  
 Site Classification A Emergency: False  
 Site Classification B O and m: False  
 Site Classification C Rd/ra: False  
 Site Classification D Ri/fs: False  
 Fund Financed: False  
 NPL: False  
 PLP: False  
 District: Not reported  
 Program Site Was Referred From: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Program Interest:	VIC
Physical Location:	Not reported
Natural Resource Damage:	False
Cleanup Cost:	Not reported
Notes:	PB4555
Indian Reservation Land?:	False
Reservation Name:	Not reported
MPCA-owned Wells At Site?:	False
Created By:	A. Nichols
Created Date:	04/08/2014
Last Update Date:	02/02/2015
Federal Facility?:	False
Primary Funding Source:	Not reported
EPA ID:	Not reported
MPCA ID:	Not reported
Alpha Sort:	Not reported
Legal District:	Not reported
Congressional District:	Not reported
Public Land Survey Method:	Not reported
Map Scale For PLS Locational Data:	Not reported
Township 2:	Not reported
Range:	Not reported
PLS Township Suffix:	Not reported
Section:	Not reported
PLS Qtr Section (160 Acres):	Not reported
PLS Qtr-Qtr Section (40 Acres):	Not reported
Pls Qtr-Qtr-Qtr Section (10 Acres):	Not reported
Pls Qtr-Qtr-Qtr-Qtr Secion (2.5 Acres):	Not reported
Quad:	Not reported
NAD Number:	Not reported
Desc Of UTM Coord Pt:	Not reported
UTM Coord Pt Data Source:	Not reported
Org Providing UTM Coord Point Data:	MPCA Delta database
mpcapgmac:	Not reported
Utm Coord Pt Data Collection Method:	Not reported
Date Of Utm Coord Pt Data Collection:	Not reported
COL Date Qual:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported
Utm Source:	Not reported
Utm Method:	Not reported
Utm Scale:	Not reported
Utm Accuracy:	Not reported
Utm East:	560498.196
Utm North:	5186978.733
Utm Zone:	Not reported
Basin Code:	Not reported
Major Watershed:	Not reported
Minor Watershed:	Not reported
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

PLS Qtr-Qtr Section (40 Acres) 2:	Not reported
PLS Qtr-Qtr Section (10 Acres) 2:	Not reported
PLS Qtr-Qtr Section (2.5 Acres) 2:	Not reported
Quad 2:	Not reported
File Location:	OnBase
VIC Application GIS:	False
Petroleum Brownfields Prog?:	True

Impact and Response Actions:

Facid:	VP31160
GW Receipts Prot by Rem Actn:	Not reported
Ecological receptors present:	1
Type of ecological receptors:	Not reported
Acres of contaminated soil:	Not reported
Volume of contaminated soil:	Not reported
Acres of surface water impacted:	Not reported
Acres of wetland impacted:	Not reported
Acres of sediment impacted:	Not reported
GW Plume Area Acres:	Not reported
Cleanup Conducted:	1
Acres of Contam Soil remediate:	Not reported
Volume of Soil Cleaned:	Not reported
# Municipal wells contamd:	Not reported
# Dom wells contam:	Not reported
# People Impct SW intake contam:	Not reported
# Drums Revolved from site:	Not reported
Yr Soil Remediated:	Not reported
Acres of Soil w/ Restrict Access:	Not reported
Yr IC remedy complete:	Not reported
Yr GW remedy completed:	Not reported
Year GWIC completed:	Not reported
Acres of wetland of sediment remediated:	Not reported
Public financing:	1
Assurance help:	1
Land use Classfn At Site:	Not reported
Land use Vicinity Of Site:	Not reported
Deed notif Present On Site:	1
Restrictive Covenant Present:	1
Restrictions:	Not reported
GW Pump and Treat Used at site:	1
Quaternary Perched:	1
Quaternary Water Table:	1
Quaternary Confined:	1
Cretaceous:	1
Plattville:	1
St. peter:	1
Prairie Duchien:	1
Jordan:	1
Ironton/Galesville:	1
Mt Simon Hinckley:	1
Precambrian Undifferentiated:	1
Other/Unknown Aquifier:	1
Date Info Last Updated:	2015-08-18 12:45:00
Inst Control Info Updated:	Not reported
Inst Control Filed Location:	Not reported
SW Classification (Primary):	Not reported
SW Classification (Secondary):	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Miscellaneous:	Not reported
SW Comments:	Not reported
Site Event Log:	
Date Started:	Not reported
Date End:	2015-02-02 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2015-02-02 00:00:00
Facid:	VP31160
Event:	1
Additional Information:	soil
Record Number:	40136
Date Started:	2014-04-08 00:00:00
Date End:	2015-02-02 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2014-04-17 00:00:00
Facid:	VP31160
Event:	1
Additional Information:	None Entered
Record Number:	38545
Date Started:	Not reported
Date End:	2014-05-21 00:00:00
Planned Start Date:	Not reported
Planned End Date:	Not reported
Last Update:	2014-12-31 00:00:00
Facid:	VP31160
Event:	1
Additional Information:	?
Record Number:	39998
Contacts:	
Contact Type:	1
Company Name:	Kwik Trip, Inc.
Contact Address:	1626 Oak St
Contact Address 2:	PO Box 2107
Contact Province:	Not reported
Contact Country:	Not reported
Contact Postal code:	Not reported
Contact Phone:	6087936283
Contact Phone Ext:	Not reported
Contact Fax:	Not reported
Contact E-mail:	tbatzel@kwiktrip.com
Contact Cell Phone:	Not reported
Contact Information Last Updated:	2014-04-17 00:00:00
Misc Contact Info:	Not reported
Receive Invoice:	T
Staff Id Num:	0
Contact Type:	1
Company Name:	Kwik Trip, Inc.
Contact Address:	1626 Oak St
Contact Address 2:	PO Box 2107



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 6087936283  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: tbatzel@kwiktrip.com  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-17 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Contact Type: 1  
Company Name: West Central Environmental Consultants, Inc.  
Contact Address: 11265 91st Ave N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 7633154818  
Contact Phone Ext: Not reported  
Contact Fax: 0000000000  
Contact E-mail: scarlson@wcec.com  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-17 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 6517572612  
Contact Phone Ext: Not reported  
Contact Fax: 6512969707  
Contact E-mail: andrew.nichols@state.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-18 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3359

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 6517572612  
Contact Phone Ext: Not reported  
Contact Fax: 6512969707

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Contact E-mail: andrew.nichols@state.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-18 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3359

**BROWNFIELDS:**

Name: KWIK TRIP STORE 220  
Address: 4978 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Site ID: PB4555  
Leak Num: 4555  
Owner Name: Kwik Trip Inc.  
Leak Source: PBP  
Response Action Date: 05/23/2014  
Site Acreage: 8.27999999  
Item Id: 186588-AREA0000000002  
AI ID: 186588  
AI Name: Kwik Trip Store 220  
Site type: BROWNFIELD  
Hydro: Bassou Oulgout (former)  
Project Manager: Brittney Schuller (former)  
Coord Collection Method: Not reported  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/186588>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 02/01/2015  
Owner Address: 1626 Oak St  
Owner City: LaCrosse  
Owner State: WI  
Owner ZIP: 54601  
Latitude: 46.83367304000  
Longitude: -92.20707805000

**BROWNFIELDS:**

Leak Number: 4555  
Owner Name: Kwik Trip Inc  
Leak Source: PBP  
Response Action Date: 05/23/2014  
Site Acreage: 8.27999999

Name: KWIK TRIP #220 CARWASH ADDITION  
Address: 4978 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Site ID: BF0000272  
Leak Num: Not reported  
Owner Name: Not reported  
Leak Source: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Response Action Date: Not reported  
Site Acreage: Not reported  
Item Id: 186588-AREA0000000003  
AI ID: 186588  
AI Name: Kwik Trip Store 220  
Site type: BROWNFIELD  
Hydro: Bassou Oulgout (former)  
Project Manager: Brittney Schuller (former)  
Coord Collection Method: Not reported  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/186588>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 05/08/2019  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Latitude: 46.83364592000  
Longitude: -92.20710756000

**BROWNFIELDS:**

Leak Number: 4555  
Owner Name: Kwik Trip Inc  
Leak Source: PBP  
Response Action Date: 05/23/2014  
Site Acreage: 8.27999999

Name: KWIK TRIP STORE 220  
Address: 4978 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Site ID: VP31160  
Leak Num: 4555  
Owner Name: Kwik Trip Inc.  
Leak Source: PBP  
Response Action Date: 05/23/2014  
Site Acreage: 8.27999999  
Item Id: 186588-AREA0000000001  
AI ID: 186588  
AI Name: Kwik Trip Store 220  
Site type: BROWNFIELD  
Hydro: Not reported  
Project Manager: Andrew Nichols (former)  
Coord Collection Method: Not reported  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/186588>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Site Deleted from NPL: Not reported  
Site Closed: 02/02/2015  
Owner Address: 1626 Oak St  
Owner City: LaCrosse  
Owner State: WI  
Owner ZIP: 54601  
Latitude: 46.83344679000  
Longitude: -92.20744149000

**BROWNFIELDS:**

Leak Number: 4555  
Owner Name: Kwik Trip Inc  
Leak Source: PBP  
Response Action Date: 05/23/2014  
Site Acreage: 8.27999999

**SRS:**

Name: KWIK TRIP STORE 220  
Address: 4978 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: VP31160  
Item ID: 186588-AREA0000000001  
AI ID: 186588  
AI Name: Kwik Trip Store 220  
Facility Type: BROW  
Hydro: Not reported  
Project Manager: Andrew Nichols (former)  
Latitude: 46.83344679000  
Longitude: -92.20744149000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/186588>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: 04/08/2014  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 02/02/2015  
Owner: Kwik Trip Inc.  
Owner Address: 1626 Oak St  
Owner City: LaCrosse  
Owner State: WI  
Owner ZIP: 54601  
Acreage: 8.28000000  
BPET: Not reported  
BVIC: Y  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20140002  
Act Desc: Brownfield Site  
Status: Closed

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Prior Aug 2016:  
Facility ID: VP31160  
Facility Adress 2: Not reported  
Core Program Interest ID: 68502896  
Link ID: 7738  
Site Type: Other  
Active?: False  
Pay Complete: False  
MPCA Region: Metro  
Site Size: 8.2799997  
Score: Not reported  
Enforcement Lead Agency: Not reported  
Federal Deferral Pilot?: False  
Site Classification A Emergency: False  
Site Classification B O and m: False  
Site Classification C Rd/ra: False  
Site Classification D Ri/fs: False  
Fund Financed: False  
NPL: False  
PLP: False  
District: Not reported  
Program Site Was Referred From: Not reported  
Program Interest: VIC  
Physical Location: Not reported  
Natural Resource Damage: False  
Cleanup Cost: Not reported  
Notes: PB4555  
Indian Reservation Land?: False  
Reservation Name: Not reported  
MPCA-owned Wells At Site?: False  
Created By: A. Nichols  
Created Date: 04/08/2014  
Last Update Date: 02/02/2015  
Federal Facility?: False  
Primary Funding Source: Not reported  
EPA ID: Not reported  
MPCA ID: Not reported  
Alpha Sort: Not reported  
Legal District: Not reported  
Congressional District: Not reported  
Public Land Survey Method: Not reported  
Map Scale For PLS Locational Data: Not reported  
Township: Not reported  
Range: Not reported  
PLS Township Suffix: Not reported  
Section: Not reported  
PLS Qtr Section (160 Acres): Not reported  
PLS Qtr-Qtr Section (40 Acres): Not reported  
Pls Qtr-Qtr-Qtr Section (10 Acres): Not reported  
Pls Qtr-Qtr-Qtr Section (10 Acres): Not reported  
Quad: Not reported  
NAD Number: Not reported  
Desc Of UTM Coord Pt: Not reported  
Desc Of UTM Coord Pt: Not reported  
Desc Of UTM Coord Pt: MPCA Delta database  
mpcapgmac: Not reported  
Utm Coord Pt Data Collection Method: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Utm Coord Pt Data Collection Method:	Not reported
Map Scale:	Not reported
verifmeth:	Not reported
horizref:	Not reported
Utm Source:	Not reported
Utm Method:	Not reported
Utm Scale:	Not reported
Utm Accuracy:	Not reported
Utm East:	560498.196
Utm North:	5186978.733
Utm Zone:	Not reported
Basin Code:	Not reported
Major Watershed:	Not reported
Minor Watershed:	Not reported
Public Land Survey Method 2:	Not reported
Map Scale For PLS Locational Data 2:	Not reported
Township 2:	Not reported
Range 2:	Not reported
PLS Township Suffix 2:	Not reported
Section 2:	Not reported
PLS Qtr Section (160 Acres) 2:	Not reported
PLS Qtr-Qtr Section (40 Acres) 2:	Not reported
PLS Qtr-Qtr Section (10 Acres) 2:	Not reported
PLS Qtr-Qtr Section (2.5 Acres) 2:	Not reported
Quad 2:	Not reported
File Location:	OnBase
VIC Application GIS:	False
Petroleum Brownfields Prog?:	True

**Impact and Response Actions:**

Facid:	VP31160
GW Receipts Prot by Rem Actn:	Not reported
Ecological receptors present:	1
Type of ecological receptors:	Not reported
Acres of contaminated soil:	Not reported
Volume of contaminated soil:	Not reported
Acres of surface water impacted:	Not reported
Acres of wetland impacted:	Not reported
Acres of sediment impacted:	Not reported
GW Plume Area Acres:	Not reported
Cleanup Conducted:	1
Acres of Contam Soil remediate:	Not reported
Volume of Soil Cleaned:	Not reported
# Municipal wells contamd:	Not reported
# Dom wells contam:	Not reported
# People Impct SW intake contam:	Not reported
# Drums Revolved from site:	Not reported
Yr Soil Remediated:	Not reported
Acres of Soil w/ Restrict Access:	Not reported
Yr IC remedy complete:	Not reported
Yr GW remedy completed:	Not reported
Year GWIC completed:	Not reported
Acres of wetland of sediment remediated:	Not reported
Public financing:	1
Assurance help:	1
Land use Classfn At Site:	Not reported
Land use Vicinity Of Site:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Deed notif Present On Site: 1  
Restrictive Covenant Present: 1  
Restrictions: Not reported  
GW Pump and Treat Used at site: 1  
Quaternary Perched: 1  
Quaternary Water Table: 1  
Quaternary Confined: 1  
Cretaceous: 1  
Plattville: 1  
St. peter: 1  
Prairie Duchien: 1  
Jordan: 1  
Ironton/Galesville: 1  
Mt Simon Hinckley: 1  
Precambrian Undifferentiated: 1  
Other/Unknown Aquifer: 1  
Date Info Last Updated: 2015-08-18 12:45:00  
Inst Control Info Updated: Not reported  
Inst Control Filed Location: Not reported  
SW Classification (Primary): Not reported  
SW Classification (Secondary): Not reported  
Miscellaneous: Not reported  
SW Comments: Not reported

Site Event Log:

Date Started: Not reported  
Date End: 2015-02-02 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2015-02-02 00:00:00  
Facid: VP31160  
Event: 1  
Additional Information: soil  
Record Number: 40136

Date Started: 2014-04-08 00:00:00  
Date End: 2015-02-02 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2014-04-17 00:00:00  
Facid: VP31160  
Event: 1  
Additional Information: None Entered  
Record Number: 38545

Date Started: Not reported  
Date End: 2014-05-21 00:00:00  
Planned Start Date: Not reported  
Planned End Date: Not reported  
Last Update: 2014-12-31 00:00:00  
Facid: VP31160  
Event: 1  
Additional Information: ?  
Record Number: 39998

Contacts:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Contact Type: 1  
Company Name: Kwik Trip, Inc.  
Contact Address: 1626 Oak St  
Contact Address 2: PO Box 2107  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 6087936283  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: tbatzel@kwiktrip.com  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-17 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: T  
Staff Id Num: 0

Contact Type: 1  
Company Name: Kwik Trip, Inc.  
Contact Address: 1626 Oak St  
Contact Address 2: PO Box 2107  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 6087936283  
Contact Phone Ext: Not reported  
Contact Fax: Not reported  
Contact E-mail: tbatzel@kwiktrip.com  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-17 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Contact Type: 1  
Company Name: West Central Environmental Consultants, Inc.  
Contact Address: 11265 91st Ave N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 7633154818  
Contact Phone Ext: Not reported  
Contact Fax: 0000000000  
Contact E-mail: scarlson@wcec.com  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-17 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 0

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Contact Postal code: Not reported  
Contact Phone: 6517572612  
Contact Phone Ext: Not reported  
Contact Fax: 6512969707  
Contact E-mail: andrew.nichols@state.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-18 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3359

Contact Type: 1  
Company Name: MPCA  
Contact Address: 520 Lafayette Rd N  
Contact Address 2: Not reported  
Contact Province: Not reported  
Contact Country: Not reported  
Contact Postal code: Not reported  
Contact Phone: 6517572612  
Contact Phone Ext: Not reported  
Contact Fax: 6512969707  
Contact E-mail: andrew.nichols@state.mn.us  
Contact Cell Phone: Not reported  
Contact Information Last Updated: 2014-04-18 00:00:00  
Misc Contact Info: Not reported  
Receive Invoice: F  
Staff Id Num: 3359

Name: KWIK TRIP #220 CARWASH ADDITION  
Address: 4978 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: BF0000272  
Item ID: 186588-AREA0000000003  
AI ID: 186588  
AI Name: Kwik Trip Store 220  
Facility Type: BROW  
Hydro: Bassou Oulgout (former)  
Project Manager: Brittney Schuller (former)  
Latitude: 46.83364592000  
Longitude: -92.20710756000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/186588>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 05/08/2019  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Acreage: 8.00000000  
BPET: Y  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20170001  
Act Desc: Brownfield Site  
Status: Closed

Name: KWIK TRIP STORE 220  
Address: 4978 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: PB4555  
Item ID: 186588-AREA0000000002  
AI ID: 186588  
AI Name: Kwik Trip Store 220  
Facility Type: BROW  
Hydro: Bassou Oulgout (former)  
Project Manager: Brittney Schuller (former)  
Latitude: 46.83367304000  
Longitude: -92.20707805000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/186588>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 02/01/2015  
Owner: Kwik Trip Inc.  
Owner Address: 1626 Oak St  
Owner City: LaCrosse  
Owner State: WI  
Owner ZIP: 54601  
Acreage: 8.28000000  
BPET: Y  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20140001  
Act Desc: Brownfield Site  
Status: Closed

**SPILLS:**

Name: KWIK TRIP #220  
Address: 4978 MILLER TRUNK HWY.  
City,State,Zip: HERMANTOWN, MN  
Program ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Preferred ID: Not reported  
Incident ID: 189258  
Incident Date: 02/02/2019  
Program: Emergency Response  
Incident Types: Spill or Release  
Duty Officer Number: 180529  
Lead Investigator: Kevin Mustonen  
Incident Status: Open  
Closure Type: Not reported  
AI ID source: 186588  
Source name: Kwik Trip #220  
Source Address: 4978 Miller Trunk Highway  
Source City: Hermantown  
Source State: MN  
Source ZIP: 55811  
Substance: 1287 gallons Diesel Exhaust Fluid (DEF)  
Latitude: 46.83364592  
Longitude: -92.20710327  
Source CM: Digitized - MPCA internal map

Name: KWIK TRIP #220  
Address: 4978 MILLER TRUNK HWY.  
City,State,Zip: HERMANTOWN, MN  
Program ID: Not reported  
Preferred ID: Not reported  
Incident ID: 187221  
Incident Date: 02/16/2018  
Program: Emergency Response  
Incident Types: Spill or Release  
Duty Officer Number: 172376  
Lead Investigator: Kevin Mustonen  
Incident Status: Closed or Completed  
Closure Type: Response/Action Completed  
AI ID source: 186588  
Source name: Kwik Trip #220  
Source Address: Address Unknown  
Source City: Hermantown  
Source State: MN  
Source ZIP: 55811  
Substance: 80 gallons Diesel Exhaust Fluid (DEF)  
Latitude: 46.83364592  
Longitude: -92.20710327  
Source CM: Digitized - MPCA internal map

Name: KWIK TRIP #220  
Address: 4978 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN  
Program ID: Not reported  
Preferred ID: Not reported  
Incident ID: 188817  
Incident Date: 12/30/2018  
Program: Emergency Response  
Incident Types: Leaking Tank  
Duty Officer Number: 179893  
Lead Investigator: Kevin Mustonen  
Incident Status: Closed or Completed  
Closure Type: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

AI ID source: 186588  
Source name: Kwik Trip #220  
Source Address: 4978 Miller Trunk Hwy  
Source City: Hermantown  
Source State: MN  
Source ZIP: 55811  
Substance: 854 gallons Diesel Exhaust Fluid (DEF)  
Latitude: 46.83364592  
Longitude: -92.20710327  
Source CM: Digitized - MPCA internal map

Name: KWIK TRIP - #220  
Address: 4978 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN  
Program ID: Not reported  
Preferred ID: Not reported  
Incident ID: 202373  
Incident Date: 01/21/2022  
Program: Emergency Response  
Incident Types: Spill or Release  
Duty Officer Number: 203470  
Lead Investigator: Kayla Hovde  
Incident Status: Open  
Closure Type: Not reported  
AI ID source: Not reported  
Source name: Kwik Trip - #220  
Source Address: 4978 Miller Trunk Highway  
Source City: Hermantown  
Source State: MN  
Source ZIP: 55811  
Substance: 1350 gallons Diesel Exhaust Fluid (DEF)  
Latitude: Not reported  
Longitude: Not reported  
Source CM: Not reported

**MN Financial Assurance 1:**

PROGRAM ID: 68490177  
Township Name: Not reported  
Region: 1  
Interest Type: Petroleum Brownfield  
ADDR ID: 68490173  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 4555  
Interest Start Date: 04/17/2014  
Interest End Date: 02/01/2015  
Activity Flag: N  
TMSP Added: 04/17/2014  
TMSP Last Update: 06/25/2015 10:52:07  
Staff ID Last Update: BSCHULL  
Source: CORE  
Source ID: 68490174  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Latitude Longitude:  
Program Id: 68490177  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 04/18/2014 11:20:49  
TMSP Last Update: 04/18/2014 11:20:49  
Staff ID Last Update: SVANPAT  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 68490174  
Spatial ID: 68490179

Program Id: 68490177  
Lat/Long ID: 205806  
Latitude Degrees: 46  
Latitude Minutes: 50  
Latitude Seconds: 1.06  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 23.55  
Collection Date: 04/17/2014 13:16:50  
Lat/Long Description: Not reported  
TMSP Added: 04/17/2014 13:16:17  
TMSP Last Update: 04/17/2014 13:16:50  
Staff ID Last Update: MAPTOOL  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: DM  
Map Scale Code: Not reported  
Source: CORE  
Site ID: 68490174  
Spatial ID: 68490179

Staff Name:  
Program Id: 68490177  
Staff Sequence ID: 163055  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 04/17/2014 10:35:07  
TMSP Last Update: 04/17/2014 10:35:07  
Staff ID Last Update: SVANPAT  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 5633

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Program Id: 68490177  
Staff Sequence ID: 163056  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 04/17/2014 10:35:07  
TMSP Last Update: 04/17/2014 10:35:07  
Staff ID Last Update: SVANPAT  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: HYD  
Staff ID Number: 3369

**NPDES:**

Name: KWIK TRIP #220  
Address: 4978 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Active: Y  
Activity ID: C00045546  
Preferred ID: Not reported  
Activity Sys ID: 18658845546  
Activity Type: Construction Stormwater Permit  
Activity Type Code: 45  
Effective Start Date: 06/05/2017  
End Date: 09/15/2017  
Alternative Method: Not reported  
Coverage Date: 03/22/2017  
Latitude Degree: 46.8336459  
Longitude Degree: -92.2071032  
Location Description: Not reported  
New Imp Area: 1.5  
Old Imp Area: 2.98  
Online Submittal: Not reported  
Other Project Type Description: Not reported  
Owner Name: Kwik Trip  
Owner Organization Type: Private (Non-Government)  
Permit Sys ID: 2816565  
Project Name: Kwik Trip #220  
Project Size: 3.51  
Termination Date: Not reported  
Acres: Not reported  
Activity Description: Not reported  
No Exposure: Not reported  
One Mile: Not reported  
Permit Type: Not reported  
Sector List: Not reported  
Major Watershed: Not reported  
HUC: Not reported  
Expiration Date: Not reported  
Effective Permit: Not reported  
NPDES Flag: Not reported  
Major Minor: Not reported  
Fac Class: Not reported  
Land Application Type: Not reported  
SIC 1: Not reported  
Data Manager: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK TRIP #220 CARWASH ADDITION (Continued)**

**S116502650**

Permit Writer: Not reported  
Engineer: Not reported  
Hydro: Not reported  
Coordinate Method: Not reported  
Contractor Name: Kwik Trip

**WIMN:**

Name: KWIK TRIP STORE 220  
Address: 4978 MILLER TRUNK HIGHWAY  
Address Description: 4978 Miller Trunk Highway  
City,State,Zip: HERMANTOWN, MN 55811  
Status: Y  
Latitude: 46.833645920000002  
Longitude: -92.207103270000005  
Item ID: 186588-AISI0000186588  
AI ID: 186588  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 186588  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Multiple Programs  
Program List: SR; ST; TL  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported  
Location Description: Not reported  
Township, Range, Direction, Section QQ: Not reported  
PLS Township: Not reported  
Range: Not reported  
Range Direction: Not reported  
Section: Not reported  
Quarters: Not reported  
Collection Method Code: DM  
Method Description: Digitized - MPCA internal map  
Ref Code: CEN  
Ref Description: Center of Feature Represented  
Location Verified Flag: Y  
Collection Date: 11/03/2017  
Timestamp of Creation: 04/17/2014  
User Name of Creator: DELTA\_M\_R2  
Timestamp of Last Update: 05/21/2019  
User Name of Last Update: vsetter  
Status Date: Not reported  
The Delta Spatial ID: Not reported





Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

AI Type Description: Registration Permit  
Program Code: Air  
Activity ID: RGP19960001  
Activity Class Description: Conventional site  
Activity Type: Option B Issuance  
Permit Kind: Not reported  
Effective Flag: N  
Effective End Date: 2007-02-26 00:00:00  
Location Desc: CSLL: Site along road used for address match  
WIMN URL: <https://webapp.pca.state.mn.us/wimn/site/2208>

**MANIFEST:**

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523414  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND132349440  
TSD AI ID: 8069  
TSD AI Name: Mells Trucking & Solvent Inc  
TSD Address: 911 Southbend Ave  
TSD City: Mankato  
TSD State: MN  
TSD Zip: 56001  
Gen Copy Recd Date: 11/20/1998 0:00:00  
Fac Copy Recd Date: 1998-11-23 00:00:00  
Gen Ship Date: 1998-11-18 00:00:00  
Trans 1 Recd Date: 1998-11-18 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1998-11-18 00:00:00  
Comments: Not reported

**Contact:**

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: [dsolon@kolarnet.com](mailto:dsolon@kolarnet.com)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Contact Phone: 218-733-0100

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523414  
Manifest Row: 1  
Haz Material Name: PAINT  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 46  
Waste Units Code: AD  
Waste Code List: F005

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523415  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MND980990667  
Transporter 2 AI ID: 37566  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 311 Fowler St  
Transporter 2 City: Faribault  
Transporter 2 State: MN  
Transporter 2 ZIP: 55021-6202  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 5/18/1995 0:00:00  
Fac Copy Recd Date: 1995-05-18 00:00:00  
Gen Ship Date: 1995-05-10 00:00:00  
Trans 1 Recd Date: 1995-05-10 00:00:00  
Trans 2 Recd Date: 5/13/1995 0:00:00  
Tsd Recd Date: 1995-05-15 00:00:00

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Comments: Not reported

Contact:  
Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

NAIC:  
Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:  
Manifest ID: 523415  
Manifest Row: 1  
Haz Material Name: PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 450  
Waste Units Code: IB  
Waste Code List: F005

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523416  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MND980990667  
Transporter 2 AI ID: 37566  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 311 Fowler St  
Transporter 2 City: Faribault  
Transporter 2 State: MN  
Transporter 2 ZIP: 55021-6202  
TSD ID: IND000646943  
TSD AI ID: 41297

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

TSD AI Name: Pollution Control Industries Of Indiana  
TSD Address: 4343 Kennedy Ave  
TSD City: East Chicago  
TSD State: IN  
TSD Zip: 46312-2723  
Gen Copy Recd Date: 9/8/1992 0:00:00  
Fac Copy Recd Date: 1992-10-05 00:00:00  
Gen Ship Date: 1992-09-01 00:00:00  
Trans 1 Recd Date: 1992-09-01 00:00:00  
Trans 2 Recd Date: 9/7/1992 0:00:00  
Tsd Recd Date: 1992-09-16 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523416  
Manifest Row: 1  
Haz Material Name: PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 50  
Waste Units Code: AD  
Waste Code List: F003

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523417  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MND980990667  
Transporter 2 AI ID: 37566  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 311 Fowler St  
Transporter 2 City: Faribault  
Transporter 2 State: MN  
Transporter 2 ZIP: 55021-6202  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 6/15/1994 0:00:00  
Fac Copy Recd Date: 1994-06-23 00:00:00  
Gen Ship Date: 1994-06-08 00:00:00  
Trans 1 Recd Date: 1994-06-08 00:00:00  
Trans 2 Recd Date: 6/15/1994 0:00:00  
Tsd Recd Date: 1994-06-20 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523417  
Manifest Row: 1  
Haz Material Name: WASTE PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 353  
Waste Units Code: IB  
Waste Code List: F005

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523418  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MNR000020297  
Transporter 2 AI ID: 42663  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 909 Southbend Ave  
Transporter 2 City: Mankato  
Transporter 2 State: MN  
Transporter 2 ZIP: 56001  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 2/17/1998 0:00:00  
Fac Copy Recd Date: 1998-02-23 00:00:00  
Gen Ship Date: 1998-02-10 00:00:00  
Trans 1 Recd Date: 1998-02-10 00:00:00  
Trans 2 Recd Date: 2/12/1998 0:00:00  
Tsd Recd Date: 1998-02-19 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523418  
Manifest Row: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Haz Material Name: WASTE PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 413  
Waste Units Code: IB  
Waste Code List: F005

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523419  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MND980990667  
Transporter 2 AI ID: 37566  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 311 Fowler St  
Transporter 2 City: Faribault  
Transporter 2 State: MN  
Transporter 2 ZIP: 55021-6202  
TSD ID: IND000646943  
TSD AI ID: 41297  
TSD AI Name: Pollution Control Industries Of Indiana  
TSD Address: 4343 Kennedy Ave  
TSD City: East Chicago  
TSD State: IN  
TSD Zip: 46312-2723  
Gen Copy Recd Date: 5/26/1992 0:00:00  
Fac Copy Recd Date: 1992-06-01 00:00:00  
Gen Ship Date: 1992-04-30 00:00:00  
Trans 1 Recd Date: 1992-04-30 00:00:00  
Trans 2 Recd Date: 5/8/1992 0:00:00  
Tsd Recd Date: 1992-05-15 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523419  
Manifest Row: 1  
Haz Material Name: WASTE PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 55  
Waste Units Code: AD  
Waste Code List: F003

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523420  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MND980990667  
Transporter 2 AI ID: 37566  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 311 Fowler St  
Transporter 2 City: Faribault  
Transporter 2 State: MN  
Transporter 2 ZIP: 55021-6202  
TSD ID: IND000646943  
TSD AI ID: 41297  
TSD AI Name: Pollution Control Industries Of Indiana  
TSD Address: 4343 Kennedy Ave  
TSD City: East Chicago  
TSD State: IN  
TSD Zip: 46312-2723  
Gen Copy Recd Date: 11/15/1993 0:00:00  
Fac Copy Recd Date: 1993-11-29 00:00:00  
Gen Ship Date: 1993-11-11 00:00:00  
Trans 1 Recd Date: 1993-11-11 00:00:00  
Trans 2 Recd Date: 11/12/1993 0:00:00  
Tsd Recd Date: 1993-11-16 00:00:00  
Comments: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Contact:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523420  
Manifest Row: 1  
Haz Material Name: WASTE PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 64  
Waste Units Code: AD  
Waste Code List: F003

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523421  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MND980990667  
Transporter 2 AI ID: 37566  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 311 Fowler St  
Transporter 2 City: Faribault  
Transporter 2 State: MN  
Transporter 2 ZIP: 55021-6202  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 6/13/1996 0:00:00  
Fac Copy Recd Date: 1996-06-20 00:00:00  
Gen Ship Date: 1996-06-06 00:00:00  
Trans 1 Recd Date: 1996-06-06 00:00:00  
Trans 2 Recd Date: 6/13/1996 0:00:00  
Tsd Recd Date: 1996-06-14 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523421  
Manifest Row: 1  
Haz Material Name: WASTE PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 353  
Waste Units Code: IB  
Waste Code List: F005

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523422  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Transporter 1 ZIP: 56001  
Transporter 2 ID: MND980990667  
Transporter 2 AI ID: 37566  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 311 Fowler St  
Transporter 2 City: Faribault  
Transporter 2 State: MN  
Transporter 2 ZIP: 55021-6202  
TSD ID: IND000646943  
TSD AI ID: 41297  
TSD AI Name: Pollution Control Industries Of Indiana  
TSD Address: 4343 Kennedy Ave  
TSD City: East Chicago  
TSD State: IN  
TSD Zip: 46312-2723  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 1993-06-02 00:00:00  
Gen Ship Date: 1993-05-14 00:00:00  
Trans 1 Recd Date: 1993-05-14 00:00:00  
Trans 2 Recd Date: 5/22/1993 0:00:00  
Tsd Recd Date: 1993-05-24 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523422  
Manifest Row: 1  
Haz Material Name: WASTE PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 50  
Waste Units Code: AD  
Waste Code List: F003

Name: MILLER TRUNK AUTO INC

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523423  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MNR000020297  
Transporter 2 AI ID: 42663  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 909 Southbend Ave  
Transporter 2 City: Mankato  
Transporter 2 State: MN  
Transporter 2 ZIP: 56001  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 3/19/1997 0:00:00  
Fac Copy Recd Date: 1997-03-26 00:00:00  
Gen Ship Date: 1997-03-12 00:00:00  
Trans 1 Recd Date: 1997-03-12 00:00:00  
Trans 2 Recd Date: 3/14/1997 0:00:00  
Tsd Recd Date: 1997-03-21 00:00:00  
Comments: Not reported

**Contact:**

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

**NAIC:**

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

**Detail:**

Manifest ID: 523423  
Manifest Row: 1  
Haz Material Name: PAINT RELATED MATERIAL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 300  
Waste Units Code: IB  
Waste Code List: F005

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Manifest ID: 523424  
Generator ID: MND985713015  
Generator AI ID: 2208  
Transporter 1 ID: MND132349440  
Transporter 1 AI ID: 8069  
Transporter 1 AI Name: Mells Trucking & Solvent Inc  
Transporter 1 Address: 911 Southbend Ave  
Transporter 1 City: Mankato  
Transporter 1 State: MN  
Transporter 1 ZIP: 56001  
Transporter 2 ID: MND980990667  
Transporter 2 AI ID: 37566  
Transporter 2 AI Name: Larsen Oil Co Inc  
Transporter 2 Address: 311 Fowler St  
Transporter 2 City: Faribault  
Transporter 2 State: MN  
Transporter 2 ZIP: 55021-6202  
TSD ID: IND000646943  
TSD AI ID: 41297  
TSD AI Name: Pollution Control Industries Of Indiana  
TSD Address: 4343 Kennedy Ave  
TSD City: East Chicago  
TSD State: IN  
TSD Zip: 46312-2723  
Gen Copy Recd Date: 10/18/1991 0:00:00  
Fac Copy Recd Date: 1991-10-25 00:00:00  
Gen Ship Date: 1991-10-10 00:00:00  
Trans 1 Recd Date: 1991-10-10 00:00:00  
Trans 2 Recd Date: 10/14/1991 0:00:00  
Tsd Recd Date: 1991-10-16 00:00:00  
Comments: Not reported

**Contact:**

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
Generator Contact: David Solon  
Contact Address: 4781 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: dsolon@kolarnet.com  
Contact Phone: 218-733-0100

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

NAIC:

Generator AI ID: 2208  
Generator ID: MND985713015  
Generator AI Name: Miller Trunk Auto Inc  
NAIC Code: 811121  
NAIC Desc: 811121 - Automotive Body, Paint, and Interior Repair and Maintenance

Detail:

Manifest ID: 523424  
Manifest Row: 1  
Haz Material Name: WASTE PAINT RELATED MATERIAL  
Haz Class Number: Not reported  
UN NA Number: UN1263  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: TKTT  
Waste Qty: 120  
Waste Units Code: AD  
Waste Code List: F003

[Click this hyperlink](#) while viewing on your computer to access  
2 additional MN MANIFEST: record(s) in the EDR Site Report.

WIMN:

Name: MILLER TRUNK AUTO INC  
Address: 5014 MILLER TRUNK HIGHWAY  
Address Description: 5014 Miller Trunk Highway  
City,State,Zip: HERMANTOWN, MN 55811  
Status: Y  
Latitude: 46.834951500000003  
Longitude: -92.209197500000002  
Item ID: 2208-AISI0000002208  
AI ID: 2208  
Document ID: 0  
Subject Item Type Code: CON  
Subject Item Category Code: AISI  
Subject Item ID: 2208  
Subject Item Category Description: Agency Interest  
Subject Item Type Description: Conventional Site  
Description: Not reported  
Subject Item Designation: Not reported  
MPCA Program: Multiple Programs  
Program List: AQ; HW; SR  
City, Township or Unorganized code: 239436  
City, Township or Unorganized Name: Hermantown  
Congressional District Code: 8  
House District: 3B  
Senate District: 3  
USGS 8-digits: 04010201  
USGS 8-digits Name: St. Louis River  
USGS 10-digits: 0401020116  
USGS 12-digits: 040102011604  
USGS 12-digits Name: Saint Louis River  
MDH Drinking Water Management Code: Not reported  
MDH Drinking Water Management Name: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**MILLER TRUNK AUTO INC (Continued)**

**S107734899**

Location Description:	CSLL: Site along road used for address match
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	DM
Method Description:	Digitized - MPCA internal map
Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	Y
Collection Date:	09/27/2015
Timestamp of Creation:	06/11/1996
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	04/26/2016
User Name of Last Update:	spatial_
Status Date:	Not reported
The Delta Spatial ID:	2546
Activity:	Multiple Activities
Activity List:	Air Quality; Hazardous Waste; Site Assessment; Superfund, Superfund Program Non-listed Sites
MPCA ID:	Multiple IDs
MPCA List:	13700271; MND985713015; SA0000116; SR0000310
Program List:	Air Quality; Hazardous Waste; Investigation and Cleanup
Classification:	Automotive Body, Paint, and Interior Repair and Maintenance
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/2208">https://webapp.pca.state.mn.us/wimn/site/2208</a>
WIMN Detail as of Aug 2016:	
Legislative District:	6B
Latitude:	46.83495152
Longitude:	-92.20919754
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Digitized - Map Tool
Status:	Active

**O77**  
**West**  
**1/4-1/2**  
**0.489 mi.**  
**2580 ft.**

**BULLYAN HOMES (SF)**  
**5014 MILLER TRUNK HIGHWAY**  
**HERMANTOWN, MN 55811**  
**Site 5 of 5 in cluster O**

**MN SHWS** S113869166  
**MN SRS** N/A  
**MN SPILLS**  
**MN Financial Assurance**

**Relative:**  
**Lower**  
**Actual:**  
**1420 ft.**

**SHWS:**

Name:	BULLYAN HOMES (SF)
Address:	5014 MILLER TRUNK HIGHWAY
City,State,Zip:	HERMANTOWN, MN 55811
Facility Id:	2
Item ID:	2208-AREA0000000002
AI ID:	2208
AI Name:	Miller Trunk Auto Inc
Site Type:	Superfund Investigation/Cleanup
Hydro:	Edward Olson (no longer at MPCA)
Project Manager:	Edward Olson (no longer at MPCA)
Latitude:	46.83527641000
Longitude:	-92.20856034000

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN HOMES (SF) (Continued)**

**S113869166**

Coord Collection Method: Address Matching House Number  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/2208>  
Leak Discovered Date: Not reported  
Leak Reported Date: Not reported  
Application / Notification Received: 05/06/2013  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 07/01/2013  
Owner: Miller Trunk Auto Inc  
Owner Address: 1402 E Superior St  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55805

**SRS:**

Name: BULLYAN HOMES (SF)  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: SR0000310  
Item ID: 2208-AREA0000000002  
AI ID: 2208  
AI Name: Miller Trunk Auto Inc  
Facility Type: SUPE  
Hydro: Edward Olson (no longer at MPCA)  
Project Manager: Edward Olson (no longer at MPCA)  
Latitude: 46.83527641000  
Longitude: -92.20856034000  
Coord Collection Method: Address Matching House Number  
Migrated: Y  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/2208>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: 05/06/2013  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 07/01/2013  
Owner: Miller Trunk Auto Inc  
Owner Address: 1402 E Superior St  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55805  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20130001  
Act Desc: Superfund Investigation/Cleanup  
Status: Closed



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN HOMES (SF) (Continued)**

**S113869166**

Name: GRAVELLE FAMILY LLP  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility ID: SA0000116  
Item ID: 2208-AREA0000000001  
AI ID: 2208  
AI Name: Miller Trunk Auto Inc  
Facility Type: SITE  
Hydro: Not reported  
Project Manager: Mark Elliott (former)  
Latitude: 46.83527641000  
Longitude: -92.20856034000  
Coord Collection Method: Address Matching House Number  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/2208>  
Leak Discovered: Not reported  
Leak Reported: Not reported  
Application / Notification Received: 05/03/2013  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 05/13/2013  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20130002  
Act Desc: Site Assessment Investigation  
Status: Closed

**SPILLS:**

Name: GRAVELLE FAMILY LLP  
Address: 5014 MILLER TRUNK HIGHWAY  
City,State,Zip: HERMANTOWN, MN  
Program ID: 66069303  
Preferred ID: 86983  
Incident ID: 86983  
Incident Date: 04/23/2013  
Program: Emergency Response  
Incident Types: Spill or Release  
Duty Officer Number: 133390  
Lead Investigator: Steve Leppala  
Incident Status: Closed or Completed  
Closure Type: Response/Action Completed  
AI ID source: Not reported  
Source name: Gravelle Family LLP  
Source Address: 5014 Miller Trunk Highway

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BULLYAN HOMES (SF) (Continued)**

**S113869166**

Source City: Hermantown  
Source State: MN  
Source ZIP: Not reported  
Substance: unknown units Other substance  
Latitude: Not reported  
Longitude: Not reported  
Source CM: Not reported

Affected Area:

Program ID: 66069303  
Spill Inc Affected ID: 229139  
Spill Inc Affected Code: 6  
Tmsp Added: 05/14/2013 16:42:06  
Tmsp Last Updated: 05/14/2013 16:42:06  
Staff ID Last Update: SLEPPAL

Product:

Program ID: 66069303  
Spill Incident Accuracy ID: 229139  
Spill Product Code: 21  
Spill Qty Units: 15  
Spill Incident Accuracy: 3  
Spill Released Qty: Not reported  
Tmsp Added: 05/14/2013 16:42:06  
Tmsp Last Update: 05/14/2013 16:42:06  
Staff ID Last Update: SLEPPAL

Facility Information:

Program ID: 66069303  
Facility Address 2: Not reported  
Spill Date: 04/23/2013

MN Financial Assurance 1:

PROGRAM ID: 66069303  
Township Name: Not reported  
Region: 1  
Interest Type: Spill site  
ADDR ID: 66069304  
Interest Telephone: Not reported  
Preferred ID: 86983  
Interest Start Date: 05/14/2013  
Interest End Date: Not reported  
Activity Flag: Not reported  
TMSP Added: 05/14/2013  
TMSP Last Update: 05/14/2013 16:42:05  
Staff ID Last Update: SLEPPAL  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Caller reporting results of Phase II. VIC program application pending.  
Source may be from maintenance on property.

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

78  
SSW  
1/4-1/2  
0.499 mi.  
2636 ft.

**UNITED RENTALS BRANCH 749**  
4945 MILLER TRUNK HWY  
HERMANTOWN, MN 55811

**MN LUST** S107960153  
**MN LAST** N/A  
**MN SRS**  
**MN Financial Assurance**  
**MN MANIFEST**  
**MN TIER 2**  
**MN WIMN**

**Relative:**  
**Lower**

**Actual:**  
**1401 ft.**

**LUST:**

Name: BULLYAN RV CENTER  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Item ID: 30246-AREA0000000003  
MNPCA ID: 53721315  
AI ID: 30246  
AI Name: United Rental  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Lauralin Kania (former)  
Latitude: 46.83255571  
Longitude: -92.20200001  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/30246>  
Leak Discovered: 10/02/2007  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Owner: United Rental  
Site Closed: 11/08/2007  
Owner Address: 4945 Miller Trunk Hwy  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55811  
SI Type: Underground Storage Tank System  
Leak Reported: 10/03/2007

**0816:**

Program IN: 53721315  
Facility Address 2: Not reported  
State Code: MN  
Country Code: USA  
Foreign State: Not reported  
Foreign Zone: Not reported  
Leak ID: 17014  
Township Name: Not reported  
Addr ID: 32200  
Active Flag: Y  
Interest Type: LS  
Interest Phone: NO CORE PI PH.  
Interest Start Date: 10/03/2007 00:00:00  
Interest End Date: Not reported  
Source: CORE  
Site ID: 22200  
Leak Site: 1  
File Archive Box: Not reported  
File Archive Lot: Not reported  
Soil Digout Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Cubic Yards Excavated: Not reported  
Cond Closure Date: Not reported  
Complete Site Closure Date: 11/08/2007 00:00:00  
Contaminated Soils Remaining: Y  
Enforcement Action Begin Date: 10/05/2007  
Last Trust Eligible: N  
Offsite Contamination: N  
Reimbursement Awarded: N  
Release Discovered Date: 10/02/2007  
Leak Reported Date: 10/03/2007  
Std Letter Response Date: 10/22/2007  
Surface Water Impact: N  
Utility Project Flag: N  
TMSP Added: 10/03/2007 15:40:37  
TMSP Last Update: 04/17/2008 10:04:27  
Staff ID Last Update: JDIETZ  
Release From LAST: N  
Release From LUST: Y  
Tank Registration Status Code: FS  
VPIC Application Date: Not reported  
VPIC Acres: Not reported  
Vapor Intrusion Checked Flag: N  
Soil Gas Data Collected Flag: N  
Soil Gas Action Level Flag: Not reported  
Sub Slab Sample Collected Flag: Not reported  
Indoor Air Collected Flag: Not reported  
Vapor Intrusion Action Flag: Not reported  
Vapor Intrusion Comments: Not reported  
Soil Gas Data Comments: Not reported  
Comments: Not reported

GW Info:

MN PCA ID: 53721315  
Dw Supply Contam: Not reported  
Free Product Observed: Not reported  
Free Product Thickness: Not reported  
Ground Water Contam: N  
GW Cleanup Goal: Not reported  
Gw Exceeds Cleanup Goal: Not reported  
Cleanup Goal Achieved: Not reported  
Water Supply Exceeds Ral: Not reported  
Well Type Code: Not reported  
Impacted Aquifer Code: Not reported  
TMSP Added: 11/06/2007 17:03:39  
TMSP Last Update: 11/06/2007 17:03:39  
Staff Id Last Update: LKANIA  
Mtbe Present Now: Not reported  
Mtbe Present Historically: Not reported  
Mtbe High Ug Per Liter Char: Not reported  
Mtbe High Ug Per Liter Numb: Not reported  
Mtbe High Level Date: Not reported  
Free Product At Close: N  
Staff Id Ass: 3301  
PWS Well: N  
Prot Flag: N  
Sens Flag: N

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Prodrel:

MN PCA ID: 53721315  
Prod Released Sequence Id: 110042  
Leak Product: 8  
Tmsp Added: 10/03/2007 15:40:37  
Tmsp Last\_updt: 10/03/2007 15:40:37  
Staff Id Last Updt: SVANPAT

LAST:

Name: BULLYAN RV CENTER  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Item ID: 30246-AREA0000000003  
AI ID: 30246  
MN PCA ID: Not reported  
AI Name: United Rental  
Site Type: Leak Site  
Hydro: Not reported  
Project Manager: Lauralin Kania (former)  
Latitude: 46.83255571  
Longitude: -92.20200001  
Corrd Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/30246>  
Leak Discovered: 10/02/2007  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 11/08/2007  
Owner: United Rental  
Owner Address: 4945 Miller Trunk Hwy  
Owner City: Duluth  
Owner State: MN  
Owner ZIP: 55811  
SI Type: Aboveground Storage Tank  
Leak Reported: 10/03/2007

SRS:

Name: BULLYAN RV CENTER  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Facility ID: LS0017014  
Item ID: 30246-AREA0000000003  
AI ID: 30246  
AI Name: United Rental  
Facility Type: LEAK  
Hydro: Not reported  
Project Manager: Lauralin Kania (former)  
Latitude: 46.83255571000  
Longitude: -92.20200001000  
Coord Collection Method: Digitized - MPCA internal map  
Migrated: Not reported  
WIMN: <https://webapp.pca.state.mn.us/wimn/site/30246>

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Leak Discovered: 10/02/2007  
Leak Reported: 10/03/2007  
Application / Notification Received: Not reported  
Site Listed on PLP: Not reported  
Site Delisted from PLP: Not reported  
Site Listed on NPL: Not reported  
Site Deleted from NPL: Not reported  
Site Closed: 11/08/2007  
Owner: Not reported  
Owner Address: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner ZIP: Not reported  
Acreage: 0.00000000  
BPET: Not reported  
BVIC: Not reported  
SEMS: Not reported  
UNP Dump: Not reported  
IC: Not reported  
HRS Score: 0  
Score Year: Not reported  
Activity ID: SIW20070001  
Act Desc: Leak Site Investigation  
Status: Closed

**MN Financial Assurance 1:**

PROGRAM ID: 232277  
Township Name: Not reported  
Region: 1  
Interest Type: Deleted Tank Site  
ADDR ID: 295287  
Interest Telephone: 2187799111  
Preferred ID: 122287  
Interest Start Date: 10/17/2001  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 10/17/2001  
TMSP Last Update: 03/24/2006 12:22:18  
Staff ID Last Update: RSUCHAN  
Source: TALES  
Source ID: 0  
Country Code: USA  
FOR State: Not reported  
FOR Zone: None  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 232277  
Township Name: Not reported  
Region: 1  
Interest Type: Tank site  
ADDR ID: 32200  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 122287  
Interest Start Date: 10/17/2001  
Interest End Date: Not reported  
Activity Flag: Y

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

TMSP Added: 03/24/2006  
TMSP Last Update: 01/26/2011 11:11:30  
Staff ID Last Update: BOLSON1  
Source: CORE  
Source ID: 22200  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

PROGRAM ID: 53721315  
Township Name: Not reported  
Region: 1  
Interest Type: Leak Site  
ADDR ID: 32200  
Interest Telephone: NO CORE PI PH.  
Preferred ID: 17014  
Interest Start Date: 10/03/2007  
Interest End Date: Not reported  
Activity Flag: Y  
TMSP Added: 10/03/2007  
TMSP Last Update: 10/03/2007 15:31:38  
Staff ID Last Update: SVANPAT  
Source: CORE  
Source ID: 22200  
Country Code: USA  
FOR State: Not reported  
FOR Zone: Not reported  
FIPS County Code: 137  
Comments: Not reported

Latitude Longitude:  
Program Id: 232277  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Not reported  
TMSP Added: 05/25/2010 09:00:16  
TMSP Last Update: 05/25/2010 09:00:16  
Staff ID Last Update: NBLASIN  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 22200  
Spatial ID: 51069805

Program Id: 232277  
Lat/Long ID: 56012  
Latitude Degrees: 46

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Latitude Minutes: 49  
Latitude Seconds: 50.51  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 2  
Collection Date: 03/12/2010 17:47:48  
Lat/Long Description: Not reported  
TMSP Added: 02/24/2001 00:00:00  
TMSP Last Update: 03/12/2010 18:15:38  
Staff ID Last Update: MAPT\_NC  
Coord Source Type: 2  
Org Name Source: MPCA  
Coord Coll Meth: A1  
Map Scale Code: T  
Source: CORE  
Site ID: 22200  
Spatial ID: 51069805

Tab Site:

Program Id: 232277  
Facility Code: 2  
Above or Under Code: 1  
Indian Reservation: N  
Ust Registration Date: 11/05/2007 00:00:00  
Ast Registration Date: 09/17/2001 00:00:00  
TMSP Added: 10/17/2001 07:17:44  
TMSP Last Update: 01/25/2012 11:19:18  
Staff ID Last Update: RDULLIN  
Max Monthly Gallons: Not reported  
Vapor Recovery Installed: U  
Vapor Notif Required: U

Latitude Longitude:

Program Id: 53721315  
Lat/Long ID: 0  
Latitude Degrees: Not reported  
Latitude Minutes: Not reported  
Latitude Seconds: Not reported  
Longitude Degrees: Not reported  
Longitude Minutes: Not reported  
Longitude Seconds: Not reported  
Collection Date: Not reported  
Lat/Long Description: Site Center  
TMSP Added: 12/11/2007 10:18:58  
TMSP Last Update: 12/11/2007 10:19:38  
Staff ID Last Update: SCHILD  
Coord Source Type: Not reported  
Org Name Source: Not reported  
Coord Coll Meth: Not reported  
Map Scale Code: Not reported  
Source: TALES  
Site ID: 22200  
Spatial ID: 53721316

Program Id: 53721315



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Lat/Long ID: 56012  
Latitude Degrees: 46  
Latitude Minutes: 49  
Latitude Seconds: 50.51  
Longitude Degrees: -92  
Longitude Minutes: 12  
Longitude Seconds: 2  
Collection Date: 03/12/2010 17:47:48  
Lat/Long Description: Not reported  
TMSP Added: 02/24/2001 00:00:00  
TMSP Last Update: 03/12/2010 18:15:38  
Staff ID Last Update: MAPT\_NC  
Coord Source Type: 2  
Org Name Source: MPCA  
Coord Coll Meth: A1  
Map Scale Code: T  
Source: CORE  
Site ID: 22200  
Spatial ID: 53721316

Staff Name:

Program Id: 53721315  
Staff Sequence ID: 110043  
Staff Type: Not reported  
Staff Name: Not reported  
TMSP Added: 10/03/2007 15:40:37  
TMSP Last Update: 01/20/2012 10:39:37  
Staff ID Last Update: RSUCHAN  
Last Name: Not reported  
First Name: Not reported  
Middle Initial: Not reported  
Functional Area Code: LPM  
Staff ID Number: 3301

MANIFEST:

Name: UNITED RENTAL  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Manifest ID: 677279  
Generator ID: MND985765890  
Generator AI ID: 30246  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 4/21/2000 0:00:00  
Fac Copy Recd Date: 2000-04-21 00:00:00  
Gen Ship Date: 2000-04-17 00:00:00  
Trans 1 Recd Date: 2000-04-17 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 2000-04-17 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 30246  
Generator ID: MND985765890  
Generator AI Name: United Rental  
Generator Contact: Joseph Bullyan  
Contact Address: 4956 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: jbullyanjr@bullyan.com  
Contact Phone: 218-729-911114

NAIC:

Generator AI ID: 30246  
Generator ID: MND985765890  
Generator AI Name: United Rental  
NAIC Code: 441210  
NAIC Desc: 441210 - Recreational Vehicle Dealers

Detail:

Manifest ID: 677279  
Manifest Row: 1  
Haz Material Name: RQ WASTE COMBUSTIBLE LIQUID NOS (PETROLEUM NAPHTHA)  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: III  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 8  
Waste Units Code: AD  
Waste Code List: D001,D008,D018,D039

Name: UNITED RENTAL  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Manifest ID: 556852  
Generator ID: MND985765890  
Generator AI ID: 30246  
Transporter 1 ID: MNR000033597  
Transporter 1 AI ID: 30092  
Transporter 1 AI Name: Como Lube & Supplies Inc

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Transporter 1 Address: 1108 Port Terminal Rd  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55802-2619  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MNR000033597  
TSD AI ID: 30092  
TSD AI Name: Como Lube & Supplies Inc  
TSD Address: 1108 Port Terminal Rd  
TSD City: Duluth  
TSD State: MN  
TSD Zip: 55802-2619  
Gen Copy Recd Date: 8/17/1998 0:00:00  
Fac Copy Recd Date: 1998-08-17 00:00:00  
Gen Ship Date: 1998-08-12 00:00:00  
Trans 1 Recd Date: 1998-08-12 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1998-08-12 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 30246  
Generator ID: MND985765890  
Generator AI Name: United Rental  
Generator Contact: Joseph Bullyan  
Contact Address: 4956 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: jbullyanjr@bullyan.com  
Contact Phone: 218-729-911114

NAIC:

Generator AI ID: 30246  
Generator ID: MND985765890  
Generator AI Name: United Rental  
NAIC Code: 441210  
NAIC Desc: 441210 - Recreational Vehicle Dealers

Detail:

Manifest ID: 556852  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 8  
Waste Units Code: AD  
Waste Code List: D001

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Name: UNITED RENTAL  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Manifest ID: 556853  
Generator ID: MND985765890  
Generator AI ID: 30246  
Transporter 1 ID: MND985759034  
Transporter 1 AI ID: 30093  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 202 N 40th Ave W  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55807  
Transporter 2 ID: MOD095038998  
Transporter 2 AI ID: 44801  
Transporter 2 AI Name: Tristate Motor Transit Co  
Transporter 2 Address: 7th St  
Transporter 2 City: Joplin  
Transporter 2 State: MO  
Transporter 2 ZIP: 64801  
TSD ID: WID990829475  
TSD AI ID: 45144  
TSD AI Name: WRR Environmental Services Co Inc  
TSD Address: 5200 State Road 93  
TSD City: Eau Claire  
TSD State: WI  
TSD Zip: 54701-9678  
Gen Copy Recd Date: 5/19/1997 0:00:00  
Fac Copy Recd Date: 1997-06-02 00:00:00  
Gen Ship Date: 1997-05-12 00:00:00  
Trans 1 Recd Date: 1997-05-12 00:00:00  
Trans 2 Recd Date: 5/22/1997 0:00:00  
Tsd Recd Date: 1997-05-22 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 30246  
Generator ID: MND985765890  
Generator AI Name: United Rental  
Generator Contact: Joseph Bullyan  
Contact Address: 4956 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: jbullyanjr@bullyan.com  
Contact Phone: 218-729-911114

NAIC:

Generator AI ID: 30246  
Generator ID: MND985765890  
Generator AI Name: United Rental  
NAIC Code: 441210  
NAIC Desc: 441210 - Recreational Vehicle Dealers

Detail:

Manifest ID: 556853  
Manifest Row: 1

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 10  
Waste Units Code: IB  
Waste Code List: D001

Name: UNITED RENTAL  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: DULUTH, MN 55811  
Manifest ID: 556854  
Generator ID: MND985765890  
Generator AI ID: 30246  
Transporter 1 ID: MND985759034  
Transporter 1 AI ID: 30093  
Transporter 1 AI Name: Como Lube & Supplies Inc  
Transporter 1 Address: 202 N 40th Ave W  
Transporter 1 City: Duluth  
Transporter 1 State: MN  
Transporter 1 ZIP: 55807  
Transporter 2 ID: Not reported  
Transporter 2 AI ID: Not reported  
Transporter 2 AI Name: Not reported  
Transporter 2 Address: Not reported  
Transporter 2 City: Not reported  
Transporter 2 State: Not reported  
Transporter 2 ZIP: Not reported  
TSD ID: MND006224612  
TSD AI ID: 29638  
TSD AI Name: Pennzoil Products Co  
TSD Address: 7000 Highway 65 NE  
TSD City: Fridley  
TSD State: MN  
TSD Zip: 55432-3358  
Gen Copy Recd Date: Not reported  
Fac Copy Recd Date: 1994-07-14 00:00:00  
Gen Ship Date: 1994-07-06 00:00:00  
Trans 1 Recd Date: 1994-07-06 00:00:00  
Trans 2 Recd Date: Not reported  
Tsd Recd Date: 1994-07-12 00:00:00  
Comments: Not reported

Contact:

Generator AI ID: 30246  
Generator ID: MND985765890  
Generator AI Name: United Rental  
Generator Contact: Joseph Bullyan  
Contact Address: 4956 Miller Trunk Highway  
Contact City: Duluth  
Contact State: MN  
Contact Zip: 55811  
Contact Email: jbullyanjr@bullyan.com  
Contact Phone: 218-729-91114

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

NAIC:

Generator AI ID: 30246  
Generator ID: MND985765890  
Generator AI Name: United Rental  
NAIC Code: 441210  
NAIC Desc: 441210 - Recreational Vehicle Dealers

Detail:

Manifest ID: 556854  
Manifest Row: 1  
Haz Material Name: PETROLEUM NAPHTHA,COMBUS. LIQ.  
Haz Class Number: Not reported  
UN NA Number: NA1993  
Packing Group Number: Not reported  
Container Qty: 1  
Container Code: DMML  
Waste Qty: 8  
Waste Units Code: AD  
Waste Code List: D001

TIER 2:

Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Year: 2018  
Facility Status: ACTIVE  
Facility Phone: 2183930612  
Facility Email: Not reported  
Facility Web: Not reported  
Facility MNCP: Not reported  
SIC: Not reported  
NAICS: 532412  
Dunn Brad Num: Not reported  
Contact Type: Not reported  
Time Created: Not reported  
Signed By: Not reported  
Title: Service Manager  
Signed Date: Not reported  
Attach Site Plan: Not reported  
Attach Coord Abbr: Not reported  
Attach Safeguard Info: Not reported  
Attach ERP: Not reported  
Hardcopy Attachments: Not reported  
Extension Site Plan: Not reported  
Extension Coord Abbr: Not reported  
Extension Safeguard Info: Not reported  
Extension ERP: Not reported  
Last Updated ERP: Not reported  
Last Tested ERP: Not reported  
Last Reviewed ERP: Not reported  
VZone Primary: Not reported  
VZone Secondary: Not reported  
Modified Date: Not reported  
FIPS County: Not reported  
Latitude/Longitude: 46.830464/-92.200029

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED RENTALS BRANCH 749 (Continued)

S107960153

User Name: Not reported  
TRIFID: Not reported  
CMFCL Record ID: Not reported  
SEPC Approved Date ERP: Not reported  
Client System ID: 692300023  
Own Country: Not reported  
Site Plan: Not reported  
Confidential Location: Not reported  
Status 302: Not reported  
Status 312: Not reported  
Emergency Contact Name1: Mark Walsh  
Emergency Contact Name2: Not reported  
Emergency Contact Name3: Not reported  
Emergency Contact Name4: Not reported  
Emergency Contact 24hr Phone1: 2183930612  
Emergency Contact 24hr Phone2: Not reported  
Emergency Contact 24hr Phone3: Not reported  
Emergency Contact 24hr Phone4: Not reported

Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Name: UNITED RENTALS BRANCH 749  
Address: 4945 MILLER TRUNK HWY  
City,State,Zip: HERMANTOWN, MN 55811  
Facility Id: 17716  
CAS Number: Not reported  
Chemical Id: Not reported  
Chemical Name: Lead Acid Batteries  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: Yes  
Is Containing EHS: Yes  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 5

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Storage Container Type: Lead Acid Battery  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 17716  
CAS Number: Not reported  
Chemical Id: Not reported  
Chemical Name: Lead Acid Batteries  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: Yes  
Is Containing EHS: Yes  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 5  
Storage Container Type: Lead Acid Battery  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 17716  
CAS Number: Not reported  
Chemical Id: Not reported  
Chemical Name: Lead Acid Batteries  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: Yes  
Is Containing EHS: Yes  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 5  
Storage Container Type: Lead Acid Battery  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported
Facility Id:	17716
CAS Number:	Not reported
Chemical Id:	Not reported
Chemical Name:	Lead Acid Batteries
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	Yes
Is Containing EHS:	Yes
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	6
Avg Daily Amt Code:	5
Storage Container Type:	Lead Acid Battery
Storage Pressure Class:	Ambient pressure
Storage Temperature Class:	Ambient temperature
Storage Location:	Not reported
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported
Facility Id:	17716
CAS Number:	Not reported
Chemical Id:	Not reported
Chemical Name:	Lead Acid Batteries
EHS Name:	Not reported
Is EHS:	No
Is EHS More than TPQ:	Yes
Is Containing EHS:	Yes
How Chemical Is Stored:	Not reported
Max Daily Amt Code:	6
Avg Daily Amt Code:	5
Storage Container Type:	Lead Acid Battery
Storage Pressure Class:	Ambient pressure
Storage Temperature Class:	Ambient temperature
Storage Location:	Not reported
Is Storage Confidential Location:	No
Remark:	Not reported
Maximum Number of Occupants at One Time:	Not reported
Fire Department:	Not reported
Phone:	Not reported
Nature of Business:	Not reported
Manned-Unmanned:	Not reported
Is Combustible dust:	Not reported
Is Corrosive to metal:	Not reported
Is Explosive :	Not reported
Is Flammable (gases aerosols liquids or solids):	Not reported
Is Gas under pressure:	Not reported
Is Physical Hazard Not Otherwise Classified:	Not reported
Is In contact with water emits flammable gas:	Not reported
Is Organic peroxide:	Not reported
Is Oxidizer (liquid solid or gas):	Not reported
Is Pyrophoric (liquid or solid):	Not reported
Is Pyrophoric gas:	Not reported
Is Self-heating:	Not reported
Is Self-reactive:	Not reported
Is Acute toxicity (any route of exposure):	Not reported
Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

UNITED RENTALS BRANCH 749 (Continued)

S107960153

Facility Id: 17716  
CAS Number: Not reported  
Chemical Id: Not reported  
Chemical Name: Lead Acid Batteries  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: Yes  
Is Containing EHS: Yes  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 5  
Storage Container Type: Lead Acid Battery  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 17716  
CAS Number: Not reported  
Chemical Id: Not reported  
Chemical Name: Lead Acid Batteries  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: Yes  
Is Containing EHS: Yes  
How Chemical Is Stored: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Max Daily Amt Code: 6  
Avg Daily Amt Code: 5  
Storage Container Type: Lead Acid Battery  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 17716  
CAS Number: Not reported  
Chemical Id: Not reported  
Chemical Name: Lead Acid Batteries  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: Yes  
Is Containing EHS: Yes  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 5  
Storage Container Type: Lead Acid Battery  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 17716  
CAS Number: N/A  
Chemical Id: Not reported  
Chemical Name: Lead Acid Batteries  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: Yes  
Is Containing EHS: Yes  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 5  
Storage Container Type: Lead Acid Battery  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported  
Is Aspiration hazard: Not reported  
Is Carcinogenicity: Not reported  
Is Germ cell mutagenicity: Not reported  
Is Health Hazard Not Otherwise Classified: Not reported  
Is Reproductive toxicity: Not reported  
Is Respiratory or skin sensitization: Not reported  
Is Serious eye damage or eye irritation: Not reported  
Is Simple asphyxiant : Not reported  
Is Skin corrosion or irritation: Not reported  
Is Specific target organ toxicity: Not reported

Facility Id: 17716  
CAS Number: N/A  
Chemical Id: Not reported  
Chemical Name: Lead Acid Batteries  
EHS Name: Not reported  
Is EHS: No  
Is EHS More than TPQ: Yes  
Is Containing EHS: Yes  
How Chemical Is Stored: Not reported  
Max Daily Amt Code: 6  
Avg Daily Amt Code: 5  
Storage Container Type: Lead Acid Battery  
Storage Pressure Class: Ambient pressure  
Storage Temperature Class: Ambient temperature  
Storage Location: Not reported  
Is Storage Confidential Location: No  
Remark: Not reported  
Maximum Number of Occupants at One Time: Not reported  
Fire Department: Not reported  
Phone: Not reported  
Nature of Business: Not reported  
Manned-Unmanned: Not reported  
Is Combustible dust: Not reported  
Is Corrosive to metal: Not reported  
Is Explosive : Not reported  
Is Flammable (gases aerosols liquids or solids): Not reported  
Is Gas under pressure: Not reported  
Is Physical Hazard Not Otherwise Classified: Not reported  
Is In contact with water emits flammable gas: Not reported  
Is Organic peroxide: Not reported  
Is Oxidizer (liquid solid or gas): Not reported  
Is Pyrophoric (liquid or solid): Not reported  
Is Pyrophoric gas: Not reported  
Is Self-heating: Not reported  
Is Self-reactive: Not reported  
Is Acute toxicity (any route of exposure): Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Is Aspiration hazard:	Not reported
Is Carcinogenicity:	Not reported
Is Germ cell mutagenicity:	Not reported
Is Health Hazard Not Otherwise Classified:	Not reported
Is Reproductive toxicity:	Not reported
Is Respiratory or skin sensitization:	Not reported
Is Serious eye damage or eye irritation:	Not reported
Is Simple asphyxiant :	Not reported
Is Skin corrosion or irritation:	Not reported
Is Specific target organ toxicity:	Not reported

[Click this hyperlink](#) while viewing on your computer to access 8 additional MN\_TIER2: record(s) in the EDR Site Report.

WIMN:

Name:	UNITED RENTAL
Address:	4945 MILLER TRUNK HWY
Address Description:	4945 Miller Trunk Hwy
City,State,Zip:	DULUTH, MN 55811
Status:	Y
Latitude:	46.830224780000002
Longitude:	-92.199698819999995
Item ID:	30246-AISI0000030246
AI ID:	30246
Document ID:	0
Subject Item Type Code:	CON
Subject Item Category Code:	AISI
Subject Item ID:	30246
Subject Item Category Description:	Agency Interest
Subject Item Type Description:	Conventional Site
Description:	Not reported
Subject Item Designation:	Not reported
MPCA Program:	Multiple Programs
Program List:	HW; SR; TL
City, Township or Unorganized code:	239436
City, Township or Unorganized Name:	Hermantown
Congressional District Code:	8
House District:	3B
Senate District:	3
USGS 8-digits:	04010201
USGS 8-digits Name:	St. Louis River
USGS 10-digits:	0401020116
USGS 12-digits:	040102011604
USGS 12-digits Name:	Saint Louis River
MDH Drinking Water Management Code:	Not reported
MDH Drinking Water Management Name:	Not reported
Location Description:	Not reported
Township, Range, Direction, Section QQ:	Not reported
PLS Township:	Not reported
Range:	Not reported
Range Direction:	Not reported
Section:	Not reported
Quarters:	Not reported
Collection Method Code:	A1
Method Description:	Address Matching House Number



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**UNITED RENTALS BRANCH 749 (Continued)**

**S107960153**

Ref Code:	GEN
Ref Description:	General Location
Location Verified Flag:	N
Collection Date:	06/28/2016
Timestamp of Creation:	07/26/1999
User Name of Creator:	DELTA_M_R1
Timestamp of Last Update:	06/28/2016
User Name of Last Update:	geo_nc
Status Date:	Not reported
The Delta Spatial ID:	20244
Activity:	Multiple Activities
Activity List:	Aboveground Tanks; Hazardous Waste; Petroleum Remediation, Leak Site; Underground Tanks
MPCA ID:	Multiple IDs
MPCA List:	LS0017014; MND985765890; TS0122287
Program List:	Hazardous Waste; Investigation and Cleanup; Tanks
Classification:	Recreational Vehicle Dealers
Site URL:	<a href="https://webapp.pca.state.mn.us/wimn/site/30246">https://webapp.pca.state.mn.us/wimn/site/30246</a>
WIMN Detail as of Aug 2016:	
Legislative District:	3B
Latitude:	46.83021648
Longitude:	-92.19969107
Activity:	Multiple Activities
MPCA ID:	Multiple Activities
Major Watershed:	St. Louis River
Coordinate Collection Method:	Address Matching House Number
Status:	Active

79  
 NNE  
 1/2-1  
 0.655 mi.  
 3459 ft.

**SMALL ARMS RANGES  
 DULUTH, MN**

**UXO 1024717693  
 N/A**

**Relative:  
 Lower  
 Actual:  
 1417 ft.**

UXO:	
DoD Component:	Air Force
Installation Name:	DULUTH INTERNATIONAL AIRPORT
Name:	SMALL ARMS RANGES
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	DULUTH, MN
Site ID:	SR736
Site Type:	Small Arms Range
Latitude:	46.847000
Longitude:	-92.186000

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**80**  
**NNW**  
**1/2-1**  
**0.980 mi.**  
**5173 ft.**

**LEAD CONTAMINATED SOIL AREA**  
**DULUTH, MN**

**UXO 1024717694**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**1402 ft.**

UXO:  
 DoD Component: Air Force  
 Installation Name: DULUTH INTERNATIONAL AIRPORT  
 Name: LEAD CONTAMINATED SOIL AREA  
 Address: Not reported  
 Address 2: Not reported  
 City,State,Zip: DULUTH, MN  
 Site ID: SR739  
 Site Type: Small Arms Range  
 Latitude: 46.852000  
 Longitude: -92.205000

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### *Lists of Federal NPL (Superfund) sites*

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: N/A
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/09/2023
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: N/A
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/09/2023
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## ***Lists of Federal Delisted NPL sites***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/2022  
Date Data Arrived at EDR: 08/02/2022  
Date Made Active in Reports: 08/22/2022  
Number of Days to Update: 20

Source: EPA  
Telephone: N/A  
Last EDR Contact: 11/01/2022  
Next Scheduled EDR Contact: 01/09/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021  
Date Data Arrived at EDR: 06/24/2021  
Date Made Active in Reports: 09/20/2021  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 09/06/2022  
Next Scheduled EDR Contact: 01/10/2023  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/26/2022  
Date Data Arrived at EDR: 08/02/2022  
Date Made Active in Reports: 08/22/2022  
Number of Days to Update: 20

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 11/01/2022  
Next Scheduled EDR Contact: 01/23/2023  
Data Release Frequency: Quarterly

## ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/26/2022	Source: EPA
Date Data Arrived at EDR: 08/02/2022	Telephone: 800-424-9346
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/23/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022	Source: EPA
Date Data Arrived at EDR: 06/21/2022	Telephone: 800-424-9346
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA TSD facilities***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

## ***Lists of Federal RCRA generators***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

## RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/16/2022	Source: Department of the Navy
Date Data Arrived at EDR: 08/22/2022	Telephone: 843-820-7326
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/20/2023
	Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/15/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2022	Telephone: 703-603-0695
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

### US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/15/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/17/2022	Telephone: 703-603-0695
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

### ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 06/15/2022	Telephone: 202-267-2180
Date Made Active in Reports: 06/21/2022	Last EDR Contact: 09/20/2022
Number of Days to Update: 6	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

## ***Lists of state- and tribal (Superfund) equivalent sites***

### MN PLP: Permanent List of Priorities

The list identifies hazardous waste sites where investigation and cleanup are needed, cleanup is underway, or cleanup has been completed and long-term monitoring or maintenance continues.

Date of Government Version: 05/30/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 05/31/2022	Telephone: 651-296-6139
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 08/29/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Semi-Annually

## ***Lists of state- and tribal hazardous waste facilities***

### SHWS: Superfund Site Information Listing

The SRS database includes all sites that the State Superfund Program is dealing with or has dealt with. The Superfund Program identifies, investigates and determines appropriate cleanup plans for abandoned or uncontrolled hazardous waste sites where a release or potential release of a hazardous substance poses a risk to human health or the environment.

Date of Government Version: 05/30/2022	Source: Minnesota Pollution Control Agency
Date Data Arrived at EDR: 05/31/2022	Telephone: 651-296-6300
Date Made Active in Reports: 08/17/2022	Last EDR Contact: 08/29/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Semi-Annually

## ***Lists of state and tribal landfills and solid waste disposal facilities***

### UNPERM LF: Unpermitted Facilities

These are facilities that have solid waste disposal yet are not permitted.

Date of Government Version: 07/29/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 08/01/2022	Telephone: 651-757-2665
Date Made Active in Reports: 10/18/2022	Last EDR Contact: 10/31/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Semi-Annually

### SWF/LF: Permitted Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 07/29/2022	Source: Minnesota Pollution Control Agency
Date Data Arrived at EDR: 08/01/2022	Telephone: 651-296-7276
Date Made Active in Reports: 10/18/2022	Last EDR Contact: 10/31/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LCP: Closed Landfills Priority List

The Minnesota Legislature enacted a law to manage and clean up the state's closed Mixed Municipal Solid Waste Landfills. Under that law, the MPCA is required to create and periodically revise a priority list of qualified landfills, based on the relative health and environmental risks they present. The MPCA established the first such priority list in December, 1994.

Date of Government Version: 03/31/2019  
Date Data Arrived at EDR: 04/11/2019  
Date Made Active in Reports: 05/10/2019  
Number of Days to Update: 29

Source: Minnesota Pollution Control Agency  
Telephone: 651-296-9543  
Source: Pollution Control Agency, GIS Section  
Telephone: 651-296-7266  
Last EDR Contact: 08/09/2022  
Next Scheduled EDR Contact: 11/28/2022  
Data Release Frequency: Annually

## ***Lists of state and tribal leaking storage tanks***

### LAST: Leaking Aboveground Storage Tanks

A listing of leaking aboveground storage tanks.

Date of Government Version: 07/29/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/18/2022  
Number of Days to Update: 78

Source: Pollution Control Agency  
Telephone: 651-296-6300  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Semi-Annually

### LUST: Leak Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 07/29/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/18/2022  
Number of Days to Update: 78

Source: Minnesota Pollution Control Agency  
Telephone: 651-296-6300  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Semi-Annually

### INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021  
Date Data Arrived at EDR: 06/11/2021  
Date Made Active in Reports: 09/07/2021  
Number of Days to Update: 88

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 10/17/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/31/2022  
Number of Days to Update: 79

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 10/17/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 10/17/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022	Source: EPA Region 8
Date Data Arrived at EDR: 06/13/2022	Telephone: 303-312-6271
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/13/2022	Telephone: 415-972-3372
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022	Source: EPA Region 10
Date Data Arrived at EDR: 06/13/2022	Telephone: 206-553-2857
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022	Source: EPA, Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-7439
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

## INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-6597
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

### ***Lists of state and tribal registered storage tanks***

#### FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021	Source: FEMA
Date Data Arrived at EDR: 11/05/2021	Telephone: 202-646-5797
Date Made Active in Reports: 02/01/2022	Last EDR Contact: 09/27/2022
Number of Days to Update: 88	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Varies

#### UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/22/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/17/2022  
Number of Days to Update: 77

Source: Minnesota Pollution Control Agency  
Telephone: 651-649-5451  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Semi-Annually

AST: Aboveground Storage Tanks  
Registered Aboveground Storage Tanks.

Date of Government Version: 07/22/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/17/2022  
Number of Days to Update: 77

Source: Minnesota Pollution Control Agency  
Telephone: 651-296-0930  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 10/17/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA Region 8  
Telephone: 303-312-6137  
Last EDR Contact: 10/17/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/16/2022  
Number of Days to Update: 64

Source: EPA Region 9  
Telephone: 415-972-3368  
Last EDR Contact: 10/17/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022  
Date Data Arrived at EDR: 06/13/2022  
Date Made Active in Reports: 08/31/2022  
Number of Days to Update: 79

Source: EPA Region 4  
Telephone: 404-562-9424  
Last EDR Contact: 10/17/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/28/2022	Source: EPA Region 6
Date Data Arrived at EDR: 06/13/2022	Telephone: 214-665-7591
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022	Source: EPA Region 5
Date Data Arrived at EDR: 06/13/2022	Telephone: 312-886-6136
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022	Source: EPA, Region 1
Date Data Arrived at EDR: 06/13/2022	Telephone: 617-918-1313
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022	Source: EPA Region 7
Date Data Arrived at EDR: 06/13/2022	Telephone: 913-551-7003
Date Made Active in Reports: 08/16/2022	Last EDR Contact: 10/17/2022
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/30/2023
	Data Release Frequency: Varies

## ***State and tribal institutional control / engineering control registries***

### INST CONTROL: Site Remediation Section Database

Sites that have an Institutional Control event.

Date of Government Version: 05/30/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 05/31/2022	Telephone: 512-296-6300
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 08/29/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Semi-Annually

## ***Lists of state and tribal voluntary cleanup sites***

### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/13/2022
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 07/08/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

## VIC: Voluntary Investigation and Cleanup Program

Voluntary Investigation and Cleanup (VIC) Program List.

Date of Government Version: 05/30/2022	Source: Minnesota Pollution Control Agency
Date Data Arrived at EDR: 05/31/2022	Telephone: 651-296-7291
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 08/29/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Semi-Annually

### ***Lists of state and tribal brownfield sites***

#### BROWNFIELDS: Petroleum Brownfields Program Sites

Purchasing, selling, or developing property can present a special set of obstacles if the property is contaminated with chemicals. The Petroleum Brownfields Program is one of several programs within the Minnesota Pollution Control Agency (MPCA) designed to help people address these obstacles. The purpose of the Petroleum Brownfields Program is to provide the technical assistance and liability assurance needed to expedite and facilitate the development, transfer, investigation and/or cleanup of property that is contaminated with petroleum.

Date of Government Version: 05/30/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 05/31/2022	Telephone: 651-296-7999
Date Made Active in Reports: 08/17/2022	Last EDR Contact: 08/29/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Semi-Annually

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/10/2022	Telephone: 202-566-2777
Date Made Active in Reports: 03/10/2022	Last EDR Contact: 09/09/2022
Number of Days to Update: 0	Next Scheduled EDR Contact: 12/26/2022
	Data Release Frequency: Semi-Annually

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### SWRCY: Recycling Facilities

A listing of companies that accept commercial quantities of recyclable materials.

Date of Government Version: 10/01/2020	Source: Pollution Control Agency
Date Data Arrived at EDR: 02/02/2021	Telephone: 651-296-6300
Date Made Active in Reports: 04/28/2021	Last EDR Contact: 10/27/2022
Number of Days to Update: 85	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 10/20/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Varies

## ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 10/11/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: No Update Planned

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 10/28/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

### US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/29/2022  
Date Data Arrived at EDR: 08/18/2022  
Date Made Active in Reports: 10/24/2022  
Number of Days to Update: 67

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/18/2022  
Next Scheduled EDR Contact: 12/05/2022  
Data Release Frequency: No Update Planned

### SRS: Site Remediation Section Database

The database contains site information for sites monitored by the Site Remediation Section.

Date of Government Version: 05/30/2022  
Date Data Arrived at EDR: 05/31/2022  
Date Made Active in Reports: 08/18/2022  
Number of Days to Update: 79

Source: Pollution Control Agency  
Telephone: 651-282-5988  
Last EDR Contact: 08/29/2022  
Next Scheduled EDR Contact: 12/12/2022  
Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CDL: Clandestine Drug Labs

This data was passively gathered. That is, the DOH asks law enforcement and other agencies to notify them of Clandestine Drug Labs (CDLs). They do not require reporting of events. Therefore the data represents only a subset of all CDLs. This data has not been verified. The DOH has made no attempt to verify that reported CDLs actually occurred. They have no knowledge if the CDL was involved in cooking or just consisted of chemicals associated with Meth production. The reports they receive are that a suspected CDL was seized.

Date of Government Version: 06/22/2022	Source: Department of Health
Date Data Arrived at EDR: 06/23/2022	Telephone: 651-215-5800
Date Made Active in Reports: 07/19/2022	Last EDR Contact: 10/04/2022
Number of Days to Update: 26	Next Scheduled EDR Contact: 01/09/2023
	Data Release Frequency: Quarterly

## MN DEL PLP: Delisted Permanent List of Priorities

This generally means that either no more cleanup at a site is needed or that no state superfund funding is needed for long term monitoring activities.

Date of Government Version: 05/30/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 05/31/2022	Telephone: 651-296-6139
Date Made Active in Reports: 08/18/2022	Last EDR Contact: 08/29/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Semi-Annually

## US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/29/2022	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 08/18/2022	Telephone: 202-307-1000
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 08/18/2022
Number of Days to Update: 67	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Quarterly

## PFAS: PFAS Contamination Site Location Listing

PFOS and PFOA stand for perfluorooctane sulfonate and perfluorooctanoic acid, respectively. Both are fluorinated organic chemicals, part of a larger family of compounds referred to as perfluoroalkyl substances (PFASs).

Date of Government Version: 07/25/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 07/26/2022	Telephone: 651-757-2768
Date Made Active in Reports: 10/07/2022	Last EDR Contact: 10/20/2022
Number of Days to Update: 73	Next Scheduled EDR Contact: 02/06/2023
	Data Release Frequency: Varies

## Local Land Records

### LIENS: Environmental Liens

Sites included in the Site Remediation System Database that have Environmental Liens.

Date of Government Version: 06/01/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 06/01/2022	Telephone: 602-282-5988
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 08/23/2022
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: No Update Planned

### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/26/2022  
Date Data Arrived at EDR: 08/02/2022  
Date Made Active in Reports: 08/22/2022  
Number of Days to Update: 20

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 11/01/2022  
Next Scheduled EDR Contact: 01/09/2023  
Data Release Frequency: Semi-Annually

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022  
Date Data Arrived at EDR: 09/19/2022  
Date Made Active in Reports: 09/30/2022  
Number of Days to Update: 11

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 09/19/2022  
Next Scheduled EDR Contact: 01/02/2023  
Data Release Frequency: Quarterly

### SPILLS: Spills Database

Spills reported to the Pollution Control Agency.

Date of Government Version: 07/22/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/18/2022  
Number of Days to Update: 78

Source: Minnesota Pollution Control Agency  
Telephone: 651-649-5451  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Semi-Annually

### AG SPILLS: Department of Agriculture Spills

This data is a list of pesticide/fertilizer incidents reported to have occurred in Minnesota.

Date of Government Version: 07/03/2022  
Date Data Arrived at EDR: 08/03/2022  
Date Made Active in Reports: 10/17/2022  
Number of Days to Update: 75

Source: Department of Agriculture  
Telephone: 651-297-3997  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Quarterly

### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 11/01/2012  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 02/11/2013  
Number of Days to Update: 39

Source: FirstSearch  
Telephone: N/A  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/20/2001  
Date Data Arrived at EDR: 01/03/2013  
Date Made Active in Reports: 03/06/2013  
Number of Days to Update: 62

Source: FirstSearch  
Telephone: N/A  
Last EDR Contact: 01/03/2013  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

## **Other Ascertainable Records**



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/21/2022	Telephone: 312-886-6186
Date Made Active in Reports: 06/28/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 7	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Quarterly

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 08/11/2022	Telephone: 202-528-4285
Date Made Active in Reports: 09/30/2022	Last EDR Contact: 08/11/2022
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021	Source: USGS
Date Data Arrived at EDR: 07/13/2021	Telephone: 888-275-8747
Date Made Active in Reports: 03/09/2022	Last EDR Contact: 10/13/2022
Number of Days to Update: 239	Next Scheduled EDR Contact: 01/23/2023
	Data Release Frequency: Varies

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 10/03/2022
Number of Days to Update: 574	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: N/A

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 11/03/2022
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/20/2023
	Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/20/2022  
Date Data Arrived at EDR: 06/21/2022  
Date Made Active in Reports: 08/31/2022  
Number of Days to Update: 71

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 09/20/2022  
Next Scheduled EDR Contact: 01/02/2023  
Data Release Frequency: Quarterly

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 10/28/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Quarterly

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017  
Date Data Arrived at EDR: 05/08/2018  
Date Made Active in Reports: 07/20/2018  
Number of Days to Update: 73

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 10/28/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 06/17/2020  
Date Made Active in Reports: 09/10/2020  
Number of Days to Update: 85

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 09/12/2022  
Next Scheduled EDR Contact: 12/26/2022  
Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 08/14/2020  
Date Made Active in Reports: 11/04/2020  
Number of Days to Update: 82

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 11/01/2022  
Next Scheduled EDR Contact: 11/28/2022  
Data Release Frequency: Annually

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/18/2022  
Date Data Arrived at EDR: 07/18/2022  
Date Made Active in Reports: 07/29/2022  
Number of Days to Update: 11

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 10/18/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Annually

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/26/2022  
Date Data Arrived at EDR: 08/02/2022  
Date Made Active in Reports: 08/22/2022  
Number of Days to Update: 20

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 11/01/2022  
Next Scheduled EDR Contact: 12/12/2022  
Data Release Frequency: Annually

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022  
Date Data Arrived at EDR: 05/04/2022  
Date Made Active in Reports: 05/10/2022  
Number of Days to Update: 6

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 10/27/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Varies

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995  
Date Data Arrived at EDR: 07/03/1995  
Date Made Active in Reports: 08/07/1995  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4104  
Last EDR Contact: 06/02/2008  
Next Scheduled EDR Contact: 09/01/2008  
Data Release Frequency: No Update Planned

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/26/2022  
Date Data Arrived at EDR: 08/02/2022  
Date Made Active in Reports: 08/31/2022  
Number of Days to Update: 29

Source: EPA  
Telephone: 202-564-6023  
Last EDR Contact: 11/01/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/20/2022  
Date Data Arrived at EDR: 01/20/2022  
Date Made Active in Reports: 03/25/2022  
Number of Days to Update: 64

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 10/06/2022  
Next Scheduled EDR Contact: 01/16/2023  
Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016  
Date Data Arrived at EDR: 11/23/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 09/27/2022  
Next Scheduled EDR Contact: 01/16/2023  
Data Release Frequency: Quarterly

**FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: No Update Planned

**FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)**  
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: No Update Planned

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/10/2022  
Date Data Arrived at EDR: 06/14/2022  
Date Made Active in Reports: 08/22/2022  
Number of Days to Update: 69

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 10/11/2022  
Next Scheduled EDR Contact: 01/30/2023  
Data Release Frequency: Quarterly

## COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020  
Date Data Arrived at EDR: 11/30/2021  
Date Made Active in Reports: 02/22/2022  
Number of Days to Update: 84

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 08/25/2022  
Next Scheduled EDR Contact: 12/12/2022  
Data Release Frequency: Varies

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/12/2017  
Date Data Arrived at EDR: 03/05/2019  
Date Made Active in Reports: 11/11/2019  
Number of Days to Update: 251

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 08/25/2022  
Next Scheduled EDR Contact: 12/12/2022  
Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019  
Date Data Arrived at EDR: 11/06/2019  
Date Made Active in Reports: 02/10/2020  
Number of Days to Update: 96

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 11/03/2022  
Next Scheduled EDR Contact: 02/13/2023  
Data Release Frequency: Varies

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019  
Date Data Arrived at EDR: 07/01/2019  
Date Made Active in Reports: 09/23/2019  
Number of Days to Update: 84

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 09/21/2022  
Next Scheduled EDR Contact: 01/10/2023  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020  
Date Data Arrived at EDR: 01/28/2020  
Date Made Active in Reports: 04/17/2020  
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 10/24/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2022	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 07/21/2022	Telephone: Varies
Date Made Active in Reports: 09/30/2022	Last EDR Contact: 09/27/2022
Number of Days to Update: 71	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019	Source: EPA/NTIS
Date Data Arrived at EDR: 03/02/2022	Telephone: 800-424-9346
Date Made Active in Reports: 03/25/2022	Last EDR Contact: 09/19/2022
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Biennially

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014	Source: USGS
Date Data Arrived at EDR: 07/14/2015	Telephone: 202-208-3710
Date Made Active in Reports: 01/10/2017	Last EDR Contact: 10/06/2022
Number of Days to Update: 546	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Semi-Annually

## FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021	Source: Department of Energy
Date Data Arrived at EDR: 07/27/2021	Telephone: 202-586-3559
Date Made Active in Reports: 10/22/2021	Last EDR Contact: 10/27/2022
Number of Days to Update: 87	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Varies

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019	Source: Department of Energy
Date Data Arrived at EDR: 11/15/2019	Telephone: 505-845-0011
Date Made Active in Reports: 01/28/2020	Last EDR Contact: 08/24/2022
Number of Days to Update: 74	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/26/2022	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/02/2022	Telephone: 703-603-8787
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 11/01/2022
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/09/2023
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016	Source: EPA
Date Data Arrived at EDR: 10/26/2016	Telephone: 202-564-2496
Date Made Active in Reports: 02/03/2017	Last EDR Contact: 09/26/2017
Number of Days to Update: 100	Next Scheduled EDR Contact: 01/08/2018
	Data Release Frequency: Annually

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 08/17/2022	Telephone: 303-231-5959
Date Made Active in Reports: 08/31/2022	Last EDR Contact: 08/17/2022
Number of Days to Update: 14	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Semi-Annually

## MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 08/01/2022	Source: DOL, Mine Safety & Health Admi
Date Data Arrived at EDR: 08/02/2022	Telephone: 202-693-9424
Date Made Active in Reports: 09/30/2022	Last EDR Contact: 10/04/2022
Number of Days to Update: 59	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Quarterly

## US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020	Source: USGS
Date Data Arrived at EDR: 05/27/2020	Telephone: 703-648-7709
Date Made Active in Reports: 08/13/2020	Last EDR Contact: 08/17/2022
Number of Days to Update: 78	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011	Source: USGS
Date Data Arrived at EDR: 06/08/2011	Telephone: 703-648-7709
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 08/17/2022
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/14/2022	Source: Department of Interior
Date Data Arrived at EDR: 06/15/2022	Telephone: 202-208-2609
Date Made Active in Reports: 08/22/2022	Last EDR Contact: 09/13/2022
Number of Days to Update: 68	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/03/2022	Source: EPA
Date Data Arrived at EDR: 08/25/2022	Telephone: (312) 353-2000
Date Made Active in Reports: 10/24/2022	Last EDR Contact: 08/25/2022
Number of Days to Update: 60	Next Scheduled EDR Contact: 12/12/2022
	Data Release Frequency: Quarterly

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 08/22/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020	Source: Department of Defense
Date Data Arrived at EDR: 01/11/2022	Telephone: 703-704-1564
Date Made Active in Reports: 02/14/2022	Last EDR Contact: 10/05/2022
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/23/2023
	Data Release Frequency: Varies

## ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/25/2022  
Date Data Arrived at EDR: 07/01/2022  
Date Made Active in Reports: 09/30/2022  
Number of Days to Update: 91

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 09/30/2022  
Next Scheduled EDR Contact: 01/16/2023  
Data Release Frequency: Quarterly

## FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/11/2022  
Date Data Arrived at EDR: 08/11/2022  
Date Made Active in Reports: 09/30/2022  
Number of Days to Update: 50

Source: EPA  
Telephone: 800-385-6164  
Last EDR Contact: 08/11/2022  
Next Scheduled EDR Contact: 11/28/2022  
Data Release Frequency: Quarterly

## AGVIC: Agricultural Voluntary Investigation & Cleanup Listing

A listing of agricultural voluntary investigation & cleanup site locations.

Date of Government Version: 07/03/2022  
Date Data Arrived at EDR: 08/03/2022  
Date Made Active in Reports: 10/17/2022  
Number of Days to Update: 75

Source: Department of Agriculture  
Telephone: 651-201-6400  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Quarterly

## AIRS: Permit Contact List

A listing of permitted AIRS facilities.

Date of Government Version: 08/12/2022  
Date Data Arrived at EDR: 08/15/2022  
Date Made Active in Reports: 11/03/2022  
Number of Days to Update: 80

Source: Pollution Control Agency  
Telephone: 651-296-7351  
Last EDR Contact: 08/09/2022  
Next Scheduled EDR Contact: 11/28/2022  
Data Release Frequency: Varies

## ASBESTOS: Asbestos Notification Listing

Asbestos sites

Date of Government Version: 07/19/2022  
Date Data Arrived at EDR: 07/20/2022  
Date Made Active in Reports: 10/04/2022  
Number of Days to Update: 76

Source: Department of Health  
Telephone: 651-201-4620  
Last EDR Contact: 10/20/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Varies

## BULK: Bulk Facilities Database

Facilities that use bulk pesticides and fertilizers

Date of Government Version: 08/01/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/18/2022  
Number of Days to Update: 78

Source: Department of Agriculture  
Telephone: 651-297-3997  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Quarterly

## COAL ASH: Coal Ash Disposal Site Listing

A listing of coal ash disposal site locations.

Date of Government Version: 08/01/2022  
Date Data Arrived at EDR: 08/02/2022  
Date Made Active in Reports: 10/18/2022  
Number of Days to Update: 77

Source: Pollution Control Agency  
Telephone: 651-757-2740  
Last EDR Contact: 10/27/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## DRYCLEANERS: Registered Drycleaning Facilities

A listing of coin-operated laundries and drycleaning; drycleaning plants, except rug cleaning; and industrial laundriers.

Date of Government Version: 09/28/2021	Source: Pollution Control Agency
Date Data Arrived at EDR: 09/30/2021	Telephone: 651-296-6300
Date Made Active in Reports: 12/21/2021	Last EDR Contact: 09/09/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Semi-Annually

## ENFORCEMENT: Generators Associated with Enforcement Logs

Regulatory Compliance, Hazardous Waste Enforcement Log and Hazardous Waste Permit Unit Project Identification List.

Date of Government Version: 06/16/2022	Source: Minnesota Pollution Control Agency
Date Data Arrived at EDR: 06/16/2022	Telephone: 651-297-8332
Date Made Active in Reports: 09/07/2022	Last EDR Contact: 09/13/2022
Number of Days to Update: 83	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/01/2016	Source: Pollution Control Agency
Date Data Arrived at EDR: 08/10/2016	Telephone: 651-297-8220
Date Made Active in Reports: 11/02/2016	Last EDR Contact: 10/27/2022
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/16/2023
	Data Release Frequency: Quarterly

## Financial Assurance 2: Financial Assurance Information listing

A listing of financial assurance information for solid waste facilities.

Date of Government Version: 07/29/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 08/01/2022	Telephone: 651-296-6066
Date Made Active in Reports: 08/04/2022	Last EDR Contact: 10/27/2022
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/13/2023
	Data Release Frequency: Annually

## Financial Assurance 3: Financial Assurance Information Listing

A listing of financial assurance information for hazardous waste facilities.

Date of Government Version: 07/29/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 08/01/2022	Telephone: 651-296-7258
Date Made Active in Reports: 08/04/2022	Last EDR Contact: 09/13/2022
Number of Days to Update: 3	Next Scheduled EDR Contact: 01/02/2023
	Data Release Frequency: Varies

## MN HWS PERMIT: Active TSD Facilities

Active TSD Facilities.

Date of Government Version: 05/30/2022	Source: Minnesota Pollution Control Agency
Date Data Arrived at EDR: 06/07/2022	Telephone: 651-297-8470
Date Made Active in Reports: 08/23/2022	Last EDR Contact: 08/31/2022
Number of Days to Update: 77	Next Scheduled EDR Contact: 12/19/2022
	Data Release Frequency: Annually

## LEAD: Lead Inspection Listing

Lead inspections

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/21/2022  
Date Data Arrived at EDR: 10/21/2022  
Date Made Active in Reports: 11/03/2022  
Number of Days to Update: 13

Source: Department of Health  
Telephone: 651-201-4137  
Last EDR Contact: 10/20/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Varies

## MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest data.

Date of Government Version: 06/30/2016  
Date Data Arrived at EDR: 02/07/2017  
Date Made Active in Reports: 04/05/2017  
Number of Days to Update: 57

Source: Pollution Control Agency  
Telephone: 651-296-7258  
Last EDR Contact: 08/29/2022  
Next Scheduled EDR Contact: 12/19/2022  
Data Release Frequency: Annually

## MDA LIS: Licensing Information System Database Listing

Information provided lists all individuals or companies who hold licenses, certificates and/or permits required by state law and regulated by the Department. Additionally, the LIS lists all companies who must register products with the Department before being used or sold in commercial channels within our state.

Date of Government Version: 08/01/2022  
Date Data Arrived at EDR: 08/01/2022  
Date Made Active in Reports: 10/18/2022  
Number of Days to Update: 78

Source: Department of Agriculture  
Telephone: 651-201-6000  
Last EDR Contact: 10/31/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Quarterly

## NPDES: Wastewater Permits Listing

A listing of facilities that have a wastewater permit.

Date of Government Version: 05/30/2022  
Date Data Arrived at EDR: 06/07/2022  
Date Made Active in Reports: 08/23/2022  
Number of Days to Update: 77

Source: Minnesota Pollution Control Agency  
Telephone: 651-296-6300  
Last EDR Contact: 08/31/2022  
Next Scheduled EDR Contact: 12/19/2022  
Data Release Frequency: Varies

## LS: List of Sites

The List of Sites includes: Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), No Further Remedial Action Planned (NFRAP), National Priorities List (NPL), Permanent List of Priorities (PLP), sites delisted from the Permanent List of Priorities (DPLP), Hazardous Waste Permit Unit Project Facilities (HW PERM), List of Permitted Solid Waste Facilities (SW PERM), 1980 Metropolitan Area Waste Disposal Site Inventory (METRO), 1980 Statewide Outstate Dump Inventory (ODI), Voluntary and Investigation Program (VIC), and Closed Landfill Sites Undergoing Cleanup (LCP).

Date of Government Version: 04/22/2009  
Date Data Arrived at EDR: 07/14/2009  
Date Made Active in Reports: 07/24/2009  
Number of Days to Update: 10

Source: Minnesota Pollution Control Agency  
Telephone: 651-297-2731  
Source: Pollution Control Agency, GIS Section  
Telephone: 651-297-2731  
Last EDR Contact: 12/21/2011  
Next Scheduled EDR Contact: 04/09/2012  
Data Release Frequency: Semi-Annually

## TIER 2: Tier 2 Facility Listing

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 12/31/2020  
Date Data Arrived at EDR: 11/15/2021  
Date Made Active in Reports: 02/03/2022  
Number of Days to Update: 80

Source: Department of Public Safety  
Telephone: 651-296-2233  
Last EDR Contact: 10/27/2022  
Next Scheduled EDR Contact: 02/16/2023  
Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## VAPOR: Vapor Intrusion

A listing of sites with potential or identified vapor risk. Vapor intrusion occurs when chemical vapors migrate from a source of contamination through the soil into the basements or foundations of buildings. These chemical vapors can sometimes pose risks to human health.

Date of Government Version: 08/11/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 08/11/2022	Telephone: 651-757-2040
Date Made Active in Reports: 11/01/2022	Last EDR Contact: 08/09/2022
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/28/2022
	Data Release Frequency: Varies

## WIMN: What's In My Neighborhood

Since 2003, the PCA's "What's in My Neighborhood?" database provides information about air quality, hazardous waste, remediation, solid waste, tanks and leaks, and water quality around Minnesota.

Date of Government Version: 07/05/2022	Source: Pollution Control Agency
Date Data Arrived at EDR: 07/05/2022	Telephone: 651-757-2593
Date Made Active in Reports: 09/22/2022	Last EDR Contact: 10/03/2022
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Semi-Annually

## PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011	Source: EPA, Office of Water
Date Data Arrived at EDR: 08/05/2011	Telephone: 202-564-2496
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 09/28/2022
Number of Days to Update: 55	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Semi-Annually

## PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 02/05/2015	Telephone: 202-564-2497
Date Made Active in Reports: 03/06/2015	Last EDR Contact: 09/28/2022
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Varies

## PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014	Source: EPA
Date Data Arrived at EDR: 01/06/2015	Telephone: 202-564-2496
Date Made Active in Reports: 05/06/2015	Last EDR Contact: 09/28/2022
Number of Days to Update: 120	Next Scheduled EDR Contact: 01/16/2023
	Data Release Frequency: Semi-Annually

## MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018	Source: USGS
Date Data Arrived at EDR: 10/21/2019	Telephone: 703-648-6533
Date Made Active in Reports: 10/24/2019	Last EDR Contact: 08/17/2022
Number of Days to Update: 3	Next Scheduled EDR Contact: 12/05/2022
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### ***Exclusive Recovered Govt. Archives***

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Minnesota Pollution Control Agency in Minnesota.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/03/2014  
Number of Days to Update: 186

Source: Minnesota Pollution Control Agency  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Minnesota Pollution Control Agency in Minnesota.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/13/2014  
Number of Days to Update: 196

Source: Minnesota Pollution Control Agency  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Minnesota Pollution Control Agency in Minnesota.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/24/2013  
Number of Days to Update: 176

Source: Minnesota Pollution Control Agency  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/08/2022  
Date Data Arrived at EDR: 08/08/2022  
Date Made Active in Reports: 10/21/2022  
Number of Days to Update: 74

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 08/08/2022  
Next Scheduled EDR Contact: 11/21/2022  
Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 04/10/2019  
Date Made Active in Reports: 05/16/2019  
Number of Days to Update: 36

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 10/03/2022  
Next Scheduled EDR Contact: 01/16/2023  
Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2019  
Date Data Arrived at EDR: 10/29/2021  
Date Made Active in Reports: 01/19/2022  
Number of Days to Update: 82

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 10/28/2022  
Next Scheduled EDR Contact: 02/06/2023  
Data Release Frequency: Quarterly

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/19/2019  
Date Made Active in Reports: 09/10/2019  
Number of Days to Update: 53

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 10/05/2022  
Next Scheduled EDR Contact: 01/23/2023  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020  
Date Data Arrived at EDR: 11/30/2021  
Date Made Active in Reports: 02/18/2022  
Number of Days to Update: 80

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/10/2022  
Next Scheduled EDR Contact: 11/28/2022  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/19/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 76

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 08/29/2022  
Next Scheduled EDR Contact: 12/19/2022  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: Endeavor Business Media

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

## Electric Power Transmission Line Data

Source: Endeavor Business Media

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Child Care Centers

Source: Department of Human Services

Telephone: 651-296-3971

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

## State Wetlands Data: Wetlands Inventory

Source: Land Management Information Center

Telephone: 617-297-3281

## Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

DLH ATCT  
LACKLAND STREET  
DULUTH, MN 55811

### TARGET PROPERTY COORDINATES

Latitude (North):	46.836905 - 46° 50' 12.86"
Longitude (West):	92.193519 - 92° 11' 36.67"
Universal Tranverse Mercator:	Zone 15
UTM X (Meters):	561501.2
UTM Y (Meters):	5187137.5
Elevation:	1431 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	13283469 DULUTH HEIGHTS, MN
Version Date:	2019

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

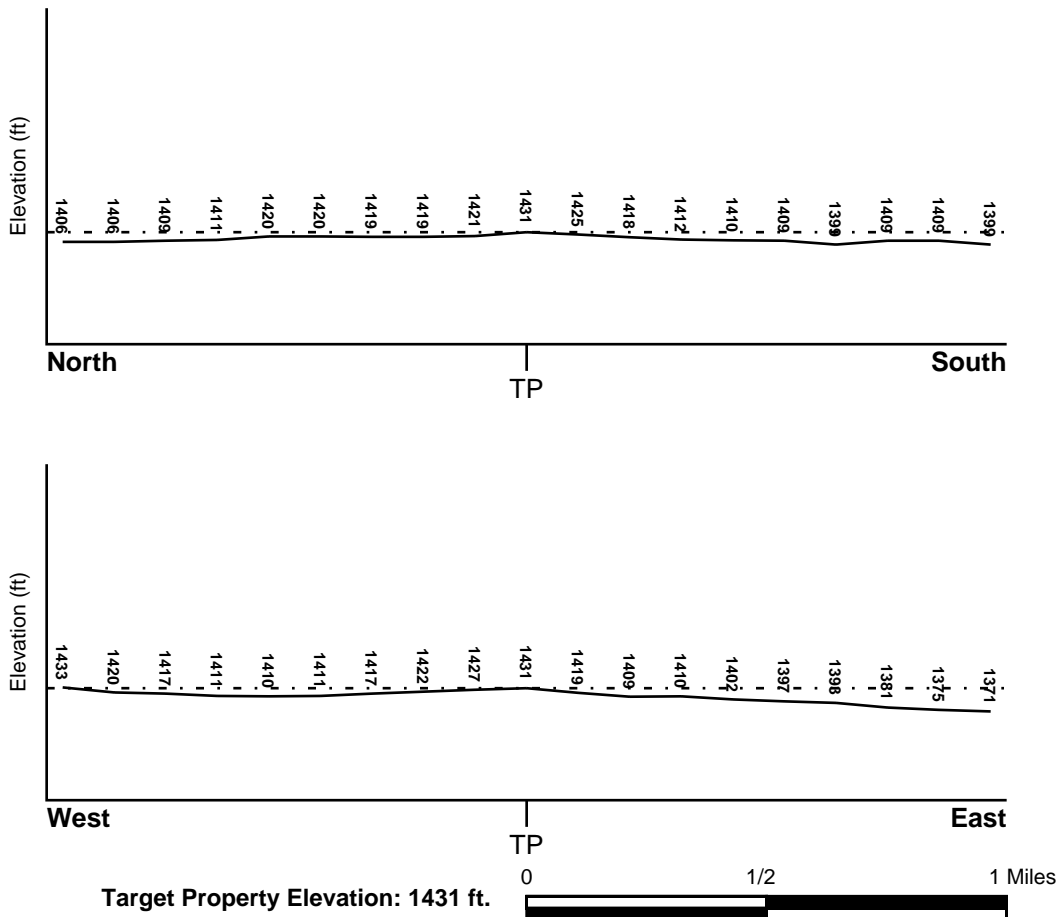
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
2704210020B	FEMA Q3 Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
2707401600C	FEMA Q3 Flood data
2704210025C	FEMA Q3 Flood data
2707080003B	FEMA Q3 Flood data
2704161600C	FEMA Q3 Flood data
2707080006B	FEMA Q3 Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
DULUTH HEIGHTS	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### ***Site-Specific Hydrogeological Data\*:***

Search Radius:	1.25 miles
Status:	Not found

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

## GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

### **ROCK STRATIGRAPHIC UNIT**

Era: Precambrian  
System: Precambrian  
Series: Mafic intrusives  
Code: Ymi (*decoded above as Era, System & Series*)

### **GEOLOGIC AGE IDENTIFICATION**

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: AHMEEK  
Soil Surface Texture: loam  
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.  
Soil Drainage Class: Not reported  
Hydric Status: Soil does not meet the requirements for a hydric soil.  
Corrosion Potential - Uncoated Steel: MODERATE  
Depth to Bedrock Min: > 60 inches  
Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	2 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
2	2 inches	14 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
3	14 inches	33 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 0.20 Min: 0.00	Max: 6.50 Min: 5.10
4	33 inches	60 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 0.06 Min: 0.00	Max: 7.30 Min: 6.10

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: fine sandy loam  
muck  
sandy loam  
loamy fine sand  
silt loam  
mucky-peat

Surficial Soil Types: fine sandy loam  
muck  
sandy loam  
loamy fine sand  
silt loam  
mucky-peat

Shallow Soil Types: sandy loam  
mucky - silt loam  
loam

Deeper Soil Types: sandy loam  
muck  
loam  
sand

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

gravelly - sandy loam  
stratified  
mucky-peat  
hemic material

## LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
C9	USGS40000596249	1/4 - 1/2 Mile SSW
C10	USGS40000596248	1/4 - 1/2 Mile SSW
D11	USGS40000596243	1/4 - 1/2 Mile South
12	USGS40000596251	1/4 - 1/2 Mile SW
D13	USGS40000596240	1/4 - 1/2 Mile South
15	USGS40000596252	1/2 - 1 Mile SW
23	USGS40000596275	1/2 - 1 Mile WSW
83	USGS40000596259	1/2 - 1 Mile WSW
85	USGS40000596212	1/2 - 1 Mile South
R87	USGS40000596220	1/2 - 1 Mile SW
R91	USGS40000596217	1/2 - 1 Mile SSW
97	USGS40000596299	1/2 - 1 Mile West
99	USGS40000596214	1/2 - 1 Mile SSW
118	USGS40000596309	1/2 - 1 Mile West
124	USGS40000596326	1/2 - 1 Mile West
126	USGS40000596377	1/2 - 1 Mile NW
127	USGS40000596258	1/2 - 1 Mile ESE
128	USGS40000596303	1/2 - 1 Mile West
129	USGS40000596208	1/2 - 1 Mile SW

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	MN7000000336883	0 - 1/8 Mile ENE
A2	MN7000000333697	0 - 1/8 Mile East
A3	MN7000000336882	0 - 1/8 Mile East
4	MN7000000008704	1/4 - 1/2 Mile NW
5	MN7000000288174	1/4 - 1/2 Mile NW
B6	MN7000000247456	1/4 - 1/2 Mile West
7	MN7000000311225	1/4 - 1/2 Mile WNW
B8	MN7000000244309	1/4 - 1/2 Mile WNW
E14	MN7000000245057	1/2 - 1 Mile West
E16	MN7000000312794	1/2 - 1 Mile WNW
E17	MN7000000281285	1/2 - 1 Mile West
E18	MN7000000312793	1/2 - 1 Mile WNW
F19	MN7000000267479	1/2 - 1 Mile West
E20	MN7000000312792	1/2 - 1 Mile WNW
E21	MN7000000281286	1/2 - 1 Mile WNW
E22	MN7000000320890	1/2 - 1 Mile WNW
E24	MN7000000245055	1/2 - 1 Mile WNW
E25	MN7000000312791	1/2 - 1 Mile WNW
E26	MN7000000334861	1/2 - 1 Mile West
E27	MN7000000312797	1/2 - 1 Mile WNW
G28	MN7000000337240	1/2 - 1 Mile NE
E29	MN7000000245056	1/2 - 1 Mile WNW
F30	MN7000000275248	1/2 - 1 Mile West
H31	MN7000000332594	1/2 - 1 Mile West
G32	MN7000000332591	1/2 - 1 Mile NE
G33	MN7000000332592	1/2 - 1 Mile NE
34	MN7000000284619	1/2 - 1 Mile SSE
H35	MN7000000336046	1/2 - 1 Mile WNW
H36	MN7000000331355	1/2 - 1 Mile West
I37	MN7000000336457	1/2 - 1 Mile WSW
F38	MN7000000267480	1/2 - 1 Mile West
H39	MN7000000319366	1/2 - 1 Mile West
H40	MN7000000332964	1/2 - 1 Mile West
G41	MN7000000334209	1/2 - 1 Mile NE
J42	MN7000000277920	1/2 - 1 Mile SE
43	MN7000000337239	1/2 - 1 Mile NNE
H44	MN7000000332963	1/2 - 1 Mile West
H45	MN7000000319367	1/2 - 1 Mile West
I46	MN7000000300183	1/2 - 1 Mile WSW
H47	MN7000000331421	1/2 - 1 Mile West
H48	MN7000000332965	1/2 - 1 Mile West
49	MN7000000300184	1/2 - 1 Mile West
H50	MN7000000331000	1/2 - 1 Mile West
51	MN7000000333134	1/2 - 1 Mile NNE
H52	MN7000000319372	1/2 - 1 Mile West
K53	MN7000000332821	1/2 - 1 Mile WNW
L54	MN7000000292856	1/2 - 1 Mile East
L55	MN7000000292857	1/2 - 1 Mile East
M56	MN7000000332246	1/2 - 1 Mile SSW
M57	MN7000000331424	1/2 - 1 Mile SSW
L58	MN7000000198056	1/2 - 1 Mile East
J59	MN7000000184087	1/2 - 1 Mile SE

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
N60	MN7000000332590	1/2 - 1 Mile NE
K61	MN7000000319371	1/2 - 1 Mile West
K62	MN7000000330999	1/2 - 1 Mile West
L63	MN7000000292048	1/2 - 1 Mile East
K64	MN7000000336065	1/2 - 1 Mile West
K65	MN7000000319374	1/2 - 1 Mile WNW
O66	MN7000000332966	1/2 - 1 Mile West
K67	MN7000000333075	1/2 - 1 Mile WNW
K68	MN7000000319368	1/2 - 1 Mile West
O69	MN7000000334942	1/2 - 1 Mile West
K70	MN7000000330998	1/2 - 1 Mile West
M71	MN7000000337400	1/2 - 1 Mile SSW
N72	MN7000000314144	1/2 - 1 Mile NE
O73	MN7000000332583	1/2 - 1 Mile West
K74	MN7000000319370	1/2 - 1 Mile West
75	MN7000000325320	1/2 - 1 Mile WSW
K76	MN7000000334860	1/2 - 1 Mile WNW
K77	MN7000000319373	1/2 - 1 Mile West
78	MN7000000188258	1/2 - 1 Mile North
O79	MN7000000319369	1/2 - 1 Mile West
80	MN7000000337241	1/2 - 1 Mile NE
P81	MN7000000332593	1/2 - 1 Mile West
82	MN7000000229815	1/2 - 1 Mile ENE
Q84	MN7000000328196	1/2 - 1 Mile NE
Q86	MN7000000336176	1/2 - 1 Mile NE
Q88	MN7000000331857	1/2 - 1 Mile NE
Q89	MN7000000244597	1/2 - 1 Mile NE
Q90	MN7000000332589	1/2 - 1 Mile NE
Q92	MN7000000332588	1/2 - 1 Mile NE
93	MN7000000226327	1/2 - 1 Mile North
94	MN7000000330648	1/2 - 1 Mile SE
Q95	MN7000000314145	1/2 - 1 Mile NE
P96	MN7000000245054	1/2 - 1 Mile West
98	MN7000000314146	1/2 - 1 Mile NNE
100	MN7000000281852	1/2 - 1 Mile West
S101	MN7000000307804	1/2 - 1 Mile NNE
T102	MN7000000188255	1/2 - 1 Mile North
T103	MN7000000188256	1/2 - 1 Mile North
104	MN7000000188257	1/2 - 1 Mile North
105	MN7000000322261	1/2 - 1 Mile SE
S106	MN7000000307791	1/2 - 1 Mile NNE
U107	MN7000000333073	1/2 - 1 Mile West
U108	MN7000000333074	1/2 - 1 Mile West
U109	MN7000000332585	1/2 - 1 Mile West
U110	MN7000000332967	1/2 - 1 Mile West
U111	MN7000000334944	1/2 - 1 Mile West
U112	MN7000000332584	1/2 - 1 Mile West
U113	MN7000000334943	1/2 - 1 Mile West
U114	MN7000000331422	1/2 - 1 Mile West
U115	MN7000000334210	1/2 - 1 Mile West
U116	MN7000000334211	1/2 - 1 Mile West
V117	MN7000000292853	1/2 - 1 Mile ENE

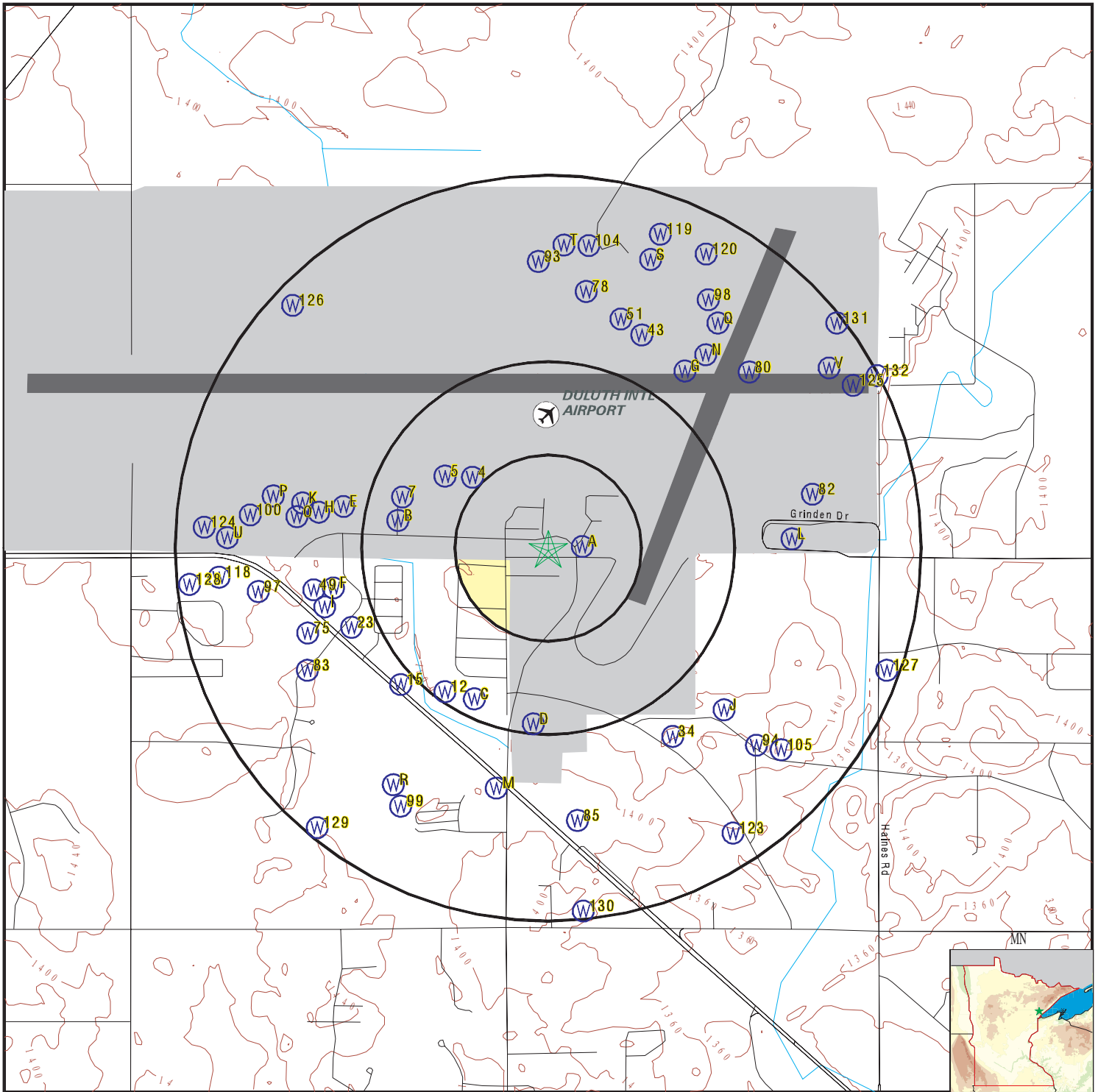


## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
119	MN7000000337245	1/2 - 1 Mile NNE
120	MN7000000337244	1/2 - 1 Mile NNE
V121	MN7000000292850	1/2 - 1 Mile NE
V122	MN7000000292854	1/2 - 1 Mile ENE
123	MN7000000135265	1/2 - 1 Mile SSE
125	MN7000000314147	1/2 - 1 Mile ENE
130	MN7000000210008	1/2 - 1 Mile South
131	MN7000000337243	1/2 - 1 Mile NE
132	MN7000000334774	1/2 - 1 Mile ENE

# PHYSICAL SETTING SOURCE MAP - 7172732.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data



SITE NAME: DLH ATCT  
 ADDRESS: Lackland Street  
 Duluth MN 55811  
 LAT/LONG: 46.836905 / 92.193519

CLIENT: Booz, Allen & Hamilton (FAA)  
 CONTACT: Scott Bolch  
 INQUIRY #: 7172732.2s  
 DATE: November 08, 2022 2:16 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A1**  
**ENE**  
**0 - 1/8 Mile**  
**Lower**

**MN WELLS      MN7000000336883**

Well Number:	0000278065	Well ID:	278065
Original Owner:	GP-6	Well Elevation (ft):	1420
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	15.5	Completion Depth (ft):	15.5
Date Completed:	20170130	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1404.5	Bottom Hole Elevation:	1404.5
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000278065">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000278065</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000278065">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000278065</a>		

**A2**  
**East**  
**0 - 1/8 Mile**  
**Lower**

**MN WELLS      MN7000000333697**

Well Number:	0000333345	Well ID:	333345
Original Owner:	CITY OF DULUTH	Well Elevation (ft):	1421
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	10	Completion Depth (ft):	10
Date Completed:	20170308	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1411	Bottom Hole Elevation:	1411
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000333345">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000333345</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000333345">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000333345</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**A3**  
**East**  
**0 - 1/8 Mile**  
**Lower**

**MN WELLS      MN7000000336882**

Well Number:	0000278064	Well ID:	278064
Original Owner:	GP-1	Well Elevation (ft):	1416
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20170117	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1401	Bottom Hole Elevation:	1401
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000278064">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000278064</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000278064">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000278064</a>		

**4**  
**NW**  
**1/4 - 1/2 Mile**  
**Lower**

**MN WELLS      MN7000000008704**

Well Number:	0000747232	Well ID:	747232
Original Owner:	MW-13	Well Elevation (ft):	1420
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	19	Completion Depth (ft):	18
Date Completed:	20061013	Casing Diameter (inches):	2
Casing Depth (ft):	8		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	Quat. Water Table Aquifer	Core Sample Taken:	Not Reported
Well Cuttings:	Not Reported	Geochem Info Exists:	Not Reported
Geophys Log Exists:	Not Reported	Observation Well:	Not Reported
Water Chemistry Info Exists:	Not Reported	Bedrock Elevation:	0
Static Water Level Reading:	Y	Open Hole Bottom Elevation:	1402
Open Hole Top Elevation:	1412		
Bottom Hole Elevation:	1401		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000747232">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000747232</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000747232">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000747232</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**5**  
**NW**  
**1/4 - 1/2 Mile**  
**Lower**

**MN WELLS      MN7000000288174**

Well Number:	0000775355	Well ID:	775355
Original Owner:	MW-36	Well Elevation (ft):	1418
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	14
Date Completed:	20091104	Casing Diameter (inches):	2
Casing Depth (ft):	4		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger-brown
Top Open Strat Unit:	sand +larger-brown		
Bottom Open Strat Unit:	sand +larger-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1414	Open Hole Bottom Elevation:	1404
Bottom Hole Elevation:	1403		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000775355">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000775355</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000775355">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000775355</a>		

**B6**  
**West**  
**1/4 - 1/2 Mile**  
**Lower**

**MN WELLS      MN7000000247456**

Well Number:	0000674892	Well ID:	674892
Original Owner:	CITY OF DULUTH	Well Elevation (ft):	1415
Well Status:	Active	Well Use:	Elevator
Drill Depth (ft):	17	Completion Depth (ft):	15
Date Completed:	20020422	Casing Diameter (inches):	18
Casing Depth (ft):	17		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	1398
Open Hole Bottom Elevation:	1400	Bottom Hole Elevation:	1398
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000674892">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000674892</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000674892">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000674892</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**7**

**WNW**  
**1/4 - 1/2 Mile**  
**Lower**

**MN WELLS      MN7000000311225**

Well Number:	0000775351	Well ID:	775351
Original Owner:	MW-46	Well Elevation (ft):	1416
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	20	Completion Depth (ft):	19
Date Completed:	20091102	Casing Diameter (inches):	2
Casing Depth (ft):	9		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay-brown
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	silt+clay-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1407	Open Hole Bottom Elevation:	1397
Bottom Hole Elevation:	1396		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000775351">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000775351</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000775351">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000775351</a>		

**B8**

**WNW**  
**1/4 - 1/2 Mile**  
**Lower**

**MN WELLS      MN7000000244309**

Well Number:	0000532712	Well ID:	532712
Original Owner:	INDUSTRIAL RESOURCE CORP		
Well Elevation (ft):	1417	Well Status:	Active
Well Use:	Elevator	Drill Depth (ft):	17
Completion Depth (ft):	15	Date Completed:	19931005
Casing Diameter (inches):	2	Casing Depth (ft):	17
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	gravel (+larger)-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	1400
Open Hole Bottom Elevation:	1402	Bottom Hole Elevation:	1400
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000532712">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000532712</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000532712">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000532712</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**C9**  
**SSW**  
 1/4 - 1/2 Mile  
 Lower

**FED USGS      USGS40000596249**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11ADD03	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19670803
Well Depth:	43.2	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**C10**  
**SSW**  
 1/4 - 1/2 Mile  
 Lower

**FED USGS      USGS40000596248**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11ADD02	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	50	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**D11**  
**South**  
 1/4 - 1/2 Mile  
 Lower

**FED USGS      USGS40000596243**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W12BDD	Type:	Well
Description:	Not Reported	HUC:	04010201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	18	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1957-01-01
Feet below surface:	8.00	Feet to sea level:	Not Reported
Note:	Not Reported		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**12**  
**SW**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000596251**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11ADC	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19660426
Well Depth:	42	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**D13**  
**South**  
**1/4 - 1/2 Mile**  
**Lower**

**FED USGS      USGS40000596240**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W12CBB	Type:	Well
Description:	Not Reported	HUC:	04010201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19570101
Well Depth:	123	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	1	Level reading date:	1957-01-01
Feet below surface:	80.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**E14**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000245057**

Well Number:	0000639752	Well ID:	639752
Original Owner:	GW-4E	Well Elevation (ft):	1417
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	14
Date Completed:	19991018	Casing Diameter (inches):	2
Casing Depth (ft):	4		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay-red
Top Open Strat Unit:	clay-red	Bottom Open Strat Unit:	clay-red
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1413	Open Hole Bottom Elevation:	1403



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom Hole Elevation: 1402  
 Log URL: <https://mnwellindex.web.health.state.mn.us/mwi/wellog.html?wellId=0000639752>  
 Strat URL: <https://mnwellindex.web.health.state.mn.us/mwi/stratreport.html?wellId=0000639752>

**15  
SW  
1/2 - 1 Mile  
Lower**

**FED USGS      USGS40000596252**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W12BCB	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	16	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements: 1		Level reading date:	1957-01-01
Feet below surface:	5.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**E16  
WNW  
1/2 - 1 Mile  
Lower**

**MN WELLS      MN7000000312794**

Well Number:	0000707142	Well ID:	707142
Original Owner:	GW29-D	Well Elevation (ft):	1416
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	19	Completion Depth (ft):	19
Date Completed:	20140603	Casing Diameter (inches):	2
Casing Depth (ft):	9		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	pebbly sand/silt/clay-brown		
Top Open Strat Unit:	sand+silt		
Bottom Open Strat Unit:	pebbly sand/silt/clay-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1407	Open Hole Bottom Elevation:	1397
Bottom Hole Elevation:	1397		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.html?wellId=0000707142">https://mnwellindex.web.health.state.mn.us/mwi/wellog.html?wellId=0000707142</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.html?wellId=0000707142">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.html?wellId=0000707142</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**E17**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000281285**

Well Number:	0000706758	Well ID:	706758
Original Owner:	MW-1 (GW-4-P-R)	Well Elevation (ft):	1411
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	17	Completion Depth (ft):	17
Date Completed:	20060913	Casing Diameter (inches):	2
Casing Depth (ft):	7		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	350	Direction to Potential Contamination:	NW
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt
Top Open Strat Unit:	sand+silt	Bottom Open Strat Unit:	sand+silt
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1404	Open Hole Bottom Elevation:	1394
Bottom Hole Elevation:	1394		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000706758">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000706758</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000706758">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000706758</a>		

**E18**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000312793**

Well Number:	0000707141	Well ID:	707141
Original Owner:	GW29-C	Well Elevation (ft):	1413
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	18	Completion Depth (ft):	18
Date Completed:	20140603	Casing Diameter (inches):	2
Casing Depth (ft):	13		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	pebbly sand/silt/clay		
Top Open Strat Unit:	pebbly sand/silt/clay		
Bottom Open Strat Unit:	pebbly sand/silt/clay		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1400	Open Hole Bottom Elevation:	1395
Bottom Hole Elevation:	1395		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000707141">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000707141</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000707141">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000707141</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**F19**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000267479**

Well Number:	0000724612	Well ID:	724612
Original Owner:	MW-05-8B	Well Elevation (ft):	1412
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	12.5
Date Completed:	20050111	Casing Diameter (inches):	2
Casing Depth (ft):	2.5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	man-made fill	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	multiple	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	1409.5
Open Hole Bottom Elevation:	1399.5	Bottom Hole Elevation:	1397
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000724612">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000724612</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000724612">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000724612</a>		

**E20**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000312792**

Well Number:	0000707140	Well ID:	707140
Original Owner:	GW29-B	Well Elevation (ft):	1413
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20140528	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds	First Stratigraphic Unit:	Not Reported
Depth to Bedrock:	0		
Last Stratigraphic Unit:	pebbly sand/silt/clay		
Top Open Strat Unit:	pebbly sand/silt/clay		
Bottom Open Strat Unit:	pebbly sand/silt/clay		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1408	Open Hole Bottom Elevation:	1398
Bottom Hole Elevation:	1398		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000707140">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000707140</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000707140">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000707140</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**E21**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000281286**

Well Number:	0000706759	Well ID:	706759
Original Owner:	MW-2 (GW-4-R-R)	Well Elevation (ft):	1410
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	20	Completion Depth (ft):	20
Date Completed:	20060914	Casing Diameter (inches):	2
Casing Depth (ft):	10		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	350	Direction to Potential Contamination:	SW
Type of Contamination:	Other	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt
Top Open Strat Unit:	sand+silt	Bottom Open Strat Unit:	sand+silt
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1400	Open Hole Bottom Elevation:	1390
Bottom Hole Elevation:	1390		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000706759">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000706759</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000706759">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000706759</a>		

**E22**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000320890**

Well Number:	0000332018	Well ID:	332018
Original Owner:	INJECTION WELL	Well Elevation (ft):	1413
Well Status:	Sealed		
Well Use:	Other (specify in remarks)		
Drill Depth (ft):	31	Completion Depth (ft):	31
Date Completed:	20130802	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well known to be not grouted		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1382	Bottom Hole Elevation:	1382
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000332018">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000332018</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000332018">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000332018</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**23**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596275**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11ABC-1	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19500101
Well Depth:	17	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels, Number of Measurements:	1	Level reading date:	1957-01-01
Feet below surface:	0.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**E24**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000245055**

Well Number:	0000639754	Well ID:	639754
Original Owner:	GW4-F	Well Elevation (ft):	1415
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	14
Date Completed:	19991019	Casing Diameter (inches):	2
Casing Depth (ft):	4		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay-red
Top Open Strat Unit:	clay-red	Bottom Open Strat Unit:	clay-red
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1411	Open Hole Bottom Elevation:	1401
Bottom Hole Elevation:	1400		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000639754">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000639754</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000639754">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000639754</a>		

**E25**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000312791**

Well Number:	0000707139	Well ID:	707139
Original Owner:	GW29-A	Well Elevation (ft):	1412
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	30	Completion Depth (ft):	30
Date Completed:	20140602	Casing Diameter (inches):	2
Casing Depth (ft):	20		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Grouted:	Well grouted, type unknown	Direction to Potential Contamination:	Not Reported
Dist from Potential Contamination:	0		
Type of Contamination:	Volatile Organic Compounds	First Stratigraphic Unit:	Not Reported
Depth to Bedrock:	0		
Last Stratigraphic Unit:	pebbly sand/silt/clay		
Top Open Strat Unit:	pebbly sand/silt/clay		
Bottom Open Strat Unit:	pebbly sand/silt/clay		
Aquifer:	Quat. buried artes. aquifer	Core Sample Taken:	Not Reported
Well Cuttings:	Not Reported	Geochem Info Exists:	Not Reported
Geophys Log Exists:	Not Reported	Observation Well:	Not Reported
Water Chemistry Info Exists:	Not Reported	Bedrock Elevation:	0
Static Water Level Reading:	Y	Open Hole Bottom Elevation:	1382
Open Hole Top Elevation:	1392		
Bottom Hole Elevation:	1382		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000707139">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000707139</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000707139">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000707139</a>		

**E26**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000334861**

Well Number:	0000240246	Well ID:	240246
Original Owner:	TB-5 TANK FARM	Well Elevation (ft):	1414
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	10	Completion Depth (ft):	0
Date Completed:	19831025	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay+sand-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	0	Bottom Hole Elevation:	1404
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240246">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240246</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240246">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240246</a>		

**E27**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000312797**

Well Number:	0000707146	Well ID:	707146
Original Owner:	GW29-E	Well Elevation (ft):	1416
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	14.5	Completion Depth (ft):	14.5
Date Completed:	20140528	Casing Diameter (inches):	2
Casing Depth (ft):	4.5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds	First Stratigraphic Unit:	Not Reported
Depth to Bedrock:	0	Top Open Strat Unit:	silt+clay
Last Stratigraphic Unit:	silt+clay	Aquifer:	Quat. Water Table Aquifer
Bottom Open Strat Unit:	silt+clay		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1411.5	Open Hole Bottom Elevation:	1401.5
Bottom Hole Elevation:	1401.5		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000707146">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000707146</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000707146">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000707146</a>		

**G28**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000337240**

Well Number:	0000827940	Well ID:	827940
Original Owner:	MW 17-04	Well Elevation (ft):	1420
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	11	Completion Depth (ft):	11
Date Completed:	20170712	Casing Diameter (inches):	2
Casing Depth (ft):	1		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quaternary undiff.		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1419	Open Hole Bottom Elevation:	1409
Bottom Hole Elevation:	1409		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827940">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827940</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827940">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827940</a>		

**E29**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000245056**

Well Number:	0000639753	Well ID:	639753
Original Owner:	GW4-06	Well Elevation (ft):	1411
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	19991018	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay-red
Top Open Strat Unit:	clay-red	Bottom Open Strat Unit:	clay-red
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1406	Open Hole Bottom Elevation:	1396

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom Hole Elevation: 1396  
 Log URL: <https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000639753>  
 Strat URL: <https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000639753>

**F30  
West  
1/2 - 1 Mile  
Lower**

**MN WELLS      MN7000000275248**

Well Number:	0000700950	Well ID:	700950
Original Owner:	MW-07-15	Well Elevation (ft):	1416
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	13	Completion Depth (ft):	13
Date Completed:	20070522	Casing Diameter (inches):	2
Casing Depth (ft):	10		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	75	Direction to Potential Contamination:	S
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	cly/snd/slt-no peb.-brn		
Top Open Strat Unit:	cly/snd/slt-no peb.-brn		
Bottom Open Strat Unit:	cly/snd/slt-no peb.-brn		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1406	Open Hole Bottom Elevation:	1403
Bottom Hole Elevation:	1403		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000700950">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000700950</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000700950">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000700950</a>		

**H31  
West  
1/2 - 1 Mile  
Lower**

**MN WELLS      MN7000000332594**

Well Number:	0000240229	Well ID:	240229
Original Owner:	TB-4/MW-8 TANK FARM		
Well Elevation (ft):	1408	Well Status:	Not Reported
Well Use:	Monitoring Well	Drill Depth (ft):	15
Completion Depth (ft):	15	Date Completed:	19831024
Casing Diameter (inches):	2	Casing Depth (ft):	0
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1393
Bottom Hole Elevation:	1393		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240229">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240229</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240229">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240229</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**G32**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**MN WELLS      MN7000000332591**

Well Number:	0000240228	Well ID:	240228
Original Owner:	MW-7 FIRE TRAINING AREA 1		
Well Elevation (ft):	1424	Well Status:	Not Reported
Well Use:	Monitoring Well	Drill Depth (ft):	21.5
Completion Depth (ft):	20	Date Completed:	19831027
Casing Diameter (inches):	2	Casing Depth (ft):	10
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	Quaternary deposit
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1414	Open Hole Bottom Elevation:	1404
Bottom Hole Elevation:	1402.5		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000240228">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000240228</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240228">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240228</a>		

**G33**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**MN WELLS      MN7000000332592**

Well Number:	0000240227	Well ID:	240227
Original Owner:	MW-6 FIRE TRAINING AREA 1		
Well Elevation (ft):	1424	Well Status:	Unknown
Well Use:	Monitoring Well	Drill Depth (ft):	17
Completion Depth (ft):	17	Date Completed:	19831027
Casing Diameter (inches):	2	Casing Depth (ft):	7
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	boulder or boulders
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1417	Open Hole Bottom Elevation:	1407
Bottom Hole Elevation:	1407		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000240227">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000240227</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240227">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240227</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**34**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000284619**

Well Number:	0000703751	Well ID:	703751
Original Owner:	PETERSON, WARREN		
Well Elevation (ft):	1422	Well Status:	Active
Well Use:	Domestic	Drill Depth (ft):	265
Completion Depth (ft):	265	Date Completed:	20031125
Casing Diameter (inches):	6	Casing Depth (ft):	80
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	110	Direction to Potential Contamination:	NE
Type of Contamination:	Septic Tank/Drain Fail		
Depth to Bedrock:	80	First Stratigraphic Unit:	Duluth Complex
Last Stratigraphic Unit:	Duluth Complex	Top Open Strat Unit:	Not Reported
Bottom Open Strat Unit:	Not Reported	Aquifer:	Not Reported
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	1342
Open Hole Top Elevation:	1342	Open Hole Bottom Elevation:	1157
Bottom Hole Elevation:	1157		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000703751">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000703751</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000703751">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000703751</a>		

**H35**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000336046**

Well Number:	0000240230	Well ID:	240230
Original Owner:	TB-12/MW-9	Well Elevation (ft):	1411
Well Status:	Not Reported	Well Use:	Monitoring Well
Drill Depth (ft):	13	Completion Depth (ft):	10
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1401	Bottom Hole Elevation:	1398
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000240230">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000240230</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240230">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240230</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**H36**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000331355**

Well Number:	0000240250	Well ID:	240250
Original Owner:	TB10 TANK FARM	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	10	Completion Depth (ft):	10
Date Completed:	19831025	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	cly/snd/slt-no peb.-gry
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	cly/snd/slt-no peb.-gry		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1401
Bottom Hole Elevation:	1401		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240250">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240250</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240250">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240250</a>		

**I37**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000336457**

Well Number:	0000340195	Well ID:	340195
Original Owner:	Not Reported	Well Elevation (ft):	1416
Well Status:	Sealed		
Well Use:	Other (specify in remarks)		
Drill Depth (ft):	14	Completion Depth (ft):	14
Date Completed:	20171129	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay+sand-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1402	Bottom Hole Elevation:	1402
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000340195">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000340195</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000340195">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000340195</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**F38**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000267480**

Well Number:	0000724610	Well ID:	724610
Original Owner:	MW-05-5B	Well Elevation (ft):	1416
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	13
Date Completed:	20050111	Casing Diameter (inches):	2
Casing Depth (ft):	3		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	sand-brown	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1413	Open Hole Bottom Elevation:	1403
Bottom Hole Elevation:	1401		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000724610">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000724610</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000724610">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000724610</a>		

**H39**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319366**

Well Number:	0000809726	Well ID:	809726
Original Owner:	GW4-LL	Well Elevation (ft):	1413
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20150724	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	25	Direction to Potential Contamination:	N
Type of Contamination:	Volatile Organic Compounds	First Stratigraphic Unit:	Not Reported
Depth to Bedrock:	0	Bottom Open Strat Unit:	gravel (+larger)-brown
Last Stratigraphic Unit:	gravel (+larger)-brown		
Top Open Strat Unit:	silt+clay-brown		
Aquifer:	Quat. Water Table Aquifer	Core Sample Taken:	Not Reported
Well Cuttings:	Not Reported	Geochem Info Exists:	Not Reported
Geophys Log Exists:	Not Reported	Observation Well:	Not Reported
Water Chemistry Info Exists:	Not Reported	Bedrock Elevation:	0
Static Water Level Reading:	Y	Open Hole Bottom Elevation:	1398
Open Hole Top Elevation:	1408		
Bottom Hole Elevation:	1398		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000809726">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000809726</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000809726">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000809726</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**H40**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332964**

Well Number:	0000240254	Well ID:	240254
Original Owner:	TB-16	Well Elevation (ft):	1411
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	8	Completion Depth (ft):	8
Date Completed:	19831025	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1403	Bottom Hole Elevation:	1403
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240254">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240254</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240254">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240254</a>		

**G41**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**MN WELLS      MN7000000334209**

Well Number:	0000240226	Well ID:	240226
Original Owner:	MW-5 FIRE TRAINING AREA 1	Well Status:	Not Reported
Well Elevation (ft):	1424	Drill Depth (ft):	20
Well Use:	Monitoring Well	Date Completed:	19831027
Completion Depth (ft):	20	Casing Depth (ft):	10
Casing Diameter (inches):	2	Grouted:	Well grouted, type unknown
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	pebbly sand/silt/clay-brown
Last Stratigraphic Unit:	pebbly sand/silt/clay-brown	Top Open Strat Unit:	pebbly sand/silt/clay-brown
Top Open Strat Unit:	pebbly sand/silt/clay-brown	Bottom Open Strat Unit:	pebbly sand/silt/clay-brown
Bottom Open Strat Unit:	pebbly sand/silt/clay-brown	Aquifer:	Quat. Water Table Aquifer
Aquifer:	Quat. Water Table Aquifer	Well Cuttings:	Not Reported
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1414	Open Hole Bottom Elevation:	1404
Bottom Hole Elevation:	1404		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240226">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240226</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240226">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240226</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**J42**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000277920**

Well Number:	0000754634	Well ID:	754634
Original Owner:	OLDER, LEE	Well Elevation (ft):	1406
Well Status:	Active	Well Use:	Domestic
Drill Depth (ft):	284	Completion Depth (ft):	284
Date Completed:	20080607	Casing Diameter (inches):	6
Casing Depth (ft):	35		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	30
First Stratigraphic Unit:	Duluth Cplx-layered series		
Last Stratigraphic Unit:	Duluth Cplx-layered series		
Top Open Strat Unit:	Duluth Cplx-layered series		
Bottom Open Strat Unit:	Duluth Cplx-layered series		
Aquifer:	Duluth Cplx-layered series		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	1376
Open Hole Top Elevation:	1371	Open Hole Bottom Elevation:	1122
Bottom Hole Elevation:	1122		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000754634">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000754634</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000754634">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000754634</a>		

**43**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000337239**

Well Number:	0000827939	Well ID:	827939
Original Owner:	MW 17-03	Well Elevation (ft):	1420
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	13	Completion Depth (ft):	13
Date Completed:	20170711	Casing Diameter (inches):	2
Casing Depth (ft):	3		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quaternary undiff.		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1417	Open Hole Bottom Elevation:	1407
Bottom Hole Elevation:	1407		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827939">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827939</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827939">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827939</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**H44**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332963**

Well Number:	0000240252	Well ID:	240252
Original Owner:	TB-14 TANK FARM	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	10	Completion Depth (ft):	10
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1401
Bottom Hole Elevation:	1401		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240252">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240252</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240252">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240252</a>		

**H45**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319367**

Well Number:	0000804724	Well ID:	804724
Original Owner:	GW4-JJ	Well Elevation (ft):	1412
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20150722	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	5	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	gravel (+larger)-brown	Bottom Open Strat Unit:	gravel (+larger)-brown
Top Open Strat Unit:	silt+clay-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1407	Open Hole Bottom Elevation:	1397
Bottom Hole Elevation:	1397		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804724">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804724</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804724">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804724</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**I46**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000300183**

Well Number:	0000701017	Well ID:	701017
Original Owner:	MW-05-14	Well Elevation (ft):	1416
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	13.76	Completion Depth (ft):	13.76
Date Completed:	20051222	Casing Diameter (inches):	2
Casing Depth (ft):	3.76		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	100	Direction to Potential Contamination:	N
Type of Contamination:	Tanks	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	man-made fill	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	multiple	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	1412.24
Open Hole Bottom Elevation:	1402.24	Bottom Hole Elevation:	1402.24
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000701017">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000701017</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000701017">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000701017</a>		

**H47**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000331421**

Well Number:	0000240256	Well ID:	240256
Original Owner:	TB-18	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	8	Completion Depth (ft):	8
Date Completed:	0	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1403	Bottom Hole Elevation:	1403
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000240256">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000240256</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240256">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240256</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**H48**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332965**

Well Number:	0000240245	Well ID:	240245
Original Owner:	TB-3 TANK FARM	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	6	Completion Depth (ft):	6
Date Completed:	19831024	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1405	Bottom Hole Elevation:	1405
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240245">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240245</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240245">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240245</a>		

**49**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000300184**

Well Number:	0000701018	Well ID:	701018
Original Owner:	MW-05-13	Well Elevation (ft):	1417
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20051222	Casing Diameter (inches):	2
Casing Depth (ft):	4.43		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	50	Direction to Potential Contamination:	NE
Type of Contamination:	Tanks	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt
Top Open Strat Unit:	cly/snd/slt-no peb.-brn		
Bottom Open Strat Unit:	sand+silt	Aquifer:	Quat. Water Table Aquifer
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1412.57	Open Hole Bottom Elevation:	1402
Bottom Hole Elevation:	1402		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000701018">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000701018</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000701018">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000701018</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**H50**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000331000**

Well Number:	0000240258	Well ID:	240258
Original Owner:	TB-20 TANK FARM	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	10	Completion Depth (ft):	10
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	cly/snd/slt-no peb.-brn
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	cly/snd/slt-no peb.-brn		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1401
Bottom Hole Elevation:	1401		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240258">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240258</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240258">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240258</a>		

**51**  
**NNE**  
**1/2 - 1 Mile**  
**Higher**

**MN WELLS      MN7000000333134**

Well Number:	0000809746	Well ID:	809746
Original Owner:	505-MW01	Well Elevation (ft):	1422
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	17	Completion Depth (ft):	17
Date Completed:	20180118	Casing Diameter (inches):	2
Casing Depth (ft):	7		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1415	Open Hole Bottom Elevation:	1405
Bottom Hole Elevation:	1405		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000809746">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000809746</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000809746">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000809746</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**H52**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319372**

Well Number:	0000804725	Well ID:	804725
Original Owner:	GW4-KK	Well Elevation (ft):	1412
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20150722	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	5	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	gravel (+larger)-brown		
Top Open Strat Unit:	silt+clay-brown	Bottom Open Strat Unit:	gravel (+larger)-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1407	Open Hole Bottom Elevation:	1397
Bottom Hole Elevation:	1397		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804725">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804725</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804725">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804725</a>		

**K53**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332821**

Well Number:	0000240247	Well ID:	240247
Original Owner:	TB-6 TANK FARM	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	12	Completion Depth (ft):	12
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay+sand-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1399	Bottom Hole Elevation:	1399
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240247">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240247</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240247">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240247</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**L54**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000292856**

Well Number:	0000538973	Well ID:	538973
Original Owner:	MW-3	Well Elevation (ft):	1387
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	20	Completion Depth (ft):	17
Date Completed:	19940411	Casing Diameter (inches):	2
Casing Depth (ft):	7		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1380	Open Hole Bottom Elevation:	1370
Bottom Hole Elevation:	1367		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000538973">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000538973</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000538973">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000538973</a>		

**L55**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000292857**

Well Number:	0000538972	Well ID:	538972
Original Owner:	MW-2	Well Elevation (ft):	1390
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	20	Completion Depth (ft):	17
Date Completed:	19940411	Casing Diameter (inches):	2
Casing Depth (ft):	7		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1383	Open Hole Bottom Elevation:	1373
Bottom Hole Elevation:	1370		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000538972">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000538972</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000538972">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000538972</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**M56**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332246**

Well Number:	0000340082	Well ID:	340082
Original Owner:	Not Reported	Well Elevation (ft):	1412
Well Status:	Sealed	Well Use:	Environ. bore hole
Drill Depth (ft):	24	Completion Depth (ft):	24
Date Completed:	20171005	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	cly/snd/slt-no peb.-brn
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1388	Bottom Hole Elevation:	1388
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000340082">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000340082</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000340082">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000340082</a>		

**M57**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000331424**

Well Number:	0000341091	Well ID:	341091
Original Owner:	SB-9	Well Elevation (ft):	1408
Well Status:	Active	Well Use:	Environ. bore hole
Drill Depth (ft):	20	Completion Depth (ft):	20
Date Completed:	20171005	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported		
Last Stratigraphic Unit:	pebbly sand/silt/clay-brown		
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	pebbly sand/silt/clay-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1388
Bottom Hole Elevation:	1388		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000341091">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000341091</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000341091">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000341091</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**L58**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000198056**

Well Number:	0000539005	Well ID:	539005
Original Owner:	MW-4	Well Elevation (ft):	1393
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	18	Completion Depth (ft):	15
Date Completed:	19940412	Casing Diameter (inches):	0
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1388	Open Hole Bottom Elevation:	1378
Bottom Hole Elevation:	1375		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000539005">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000539005</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000539005">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000539005</a>		

**J59**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000184087**

Well Number:	0000114965	Well ID:	114965
Original Owner:	OLDER CONSTRUCTION		
Well Elevation (ft):	1403	Well Status:	Active
Well Use:	Commercial	Drill Depth (ft):	155
Completion Depth (ft):	155	Date Completed:	19751222
Casing Diameter (inches):	6	Casing Depth (ft):	48.5
Grouted:	Well known to be not grouted		
Dist from Potential Contamination:	150	Direction to Potential Contamination:	W
Type of Contamination:	Septic Tank/Drain Fail		
Depth to Bedrock:	48	First Stratigraphic Unit:	Duluth Complex
Last Stratigraphic Unit:	Duluth Complex	Top Open Strat Unit:	Not Reported
Bottom Open Strat Unit:	Not Reported	Aquifer:	Not Reported
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	1355
Open Hole Top Elevation:	1354.5	Open Hole Bottom Elevation:	1248
Bottom Hole Elevation:	1248		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000114965">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000114965</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000114965">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000114965</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**N60**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**MN WELLS      MN7000000332590**

Well Number:	0000240225	Well ID:	240225
Original Owner:	MW-4 FIRE TRAINING AREA 1		
Well Elevation (ft):	1424	Well Status:	Not Reported
Well Use:	Monitoring Well	Drill Depth (ft):	20
Completion Depth (ft):	20	Date Completed:	19831026
Casing Diameter (inches):	2	Casing Depth (ft):	10
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	pebbly sand/silt/clay-brown		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Not Reported	Bedrock Elevation:	0
Open Hole Top Elevation:	1414	Open Hole Bottom Elevation:	1404
Bottom Hole Elevation:	1404		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240225">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240225</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240225">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240225</a>		

**K61**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319371**

Well Number:	0000804723	Well ID:	804723
Original Owner:	GW4-II	Well Elevation (ft):	1412
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	18	Completion Depth (ft):	18
Date Completed:	20150720	Casing Diameter (inches):	2
Casing Depth (ft):	8		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	5	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	gravel (+larger)-brown		
Top Open Strat Unit:	silt+clay-brown	Bottom Open Strat Unit:	gravel (+larger)-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1404	Open Hole Bottom Elevation:	1394
Bottom Hole Elevation:	1394		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804723">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804723</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804723">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804723</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**K62**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000330999**

Well Number:	0000240257	Well ID:	240257
Original Owner:	TB-19 TANK FARM	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	8	Completion Depth (ft):	8
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	pebbly sand/silt/clay
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	pebbly sand/silt/clay		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1403
Bottom Hole Elevation:	1403		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240257">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240257</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240257">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240257</a>		

**L63**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000292048**

Well Number:	0000538971	Well ID:	538971
Original Owner:	MW-1	Well Elevation (ft):	1392
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	18	Completion Depth (ft):	17
Date Completed:	19940408	Casing Diameter (inches):	2
Casing Depth (ft):	7		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	silt-brown	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1385	Open Hole Bottom Elevation:	1375
Bottom Hole Elevation:	1374		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000538971">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000538971</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000538971">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000538971</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**K64**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000336065**

Well Number:	0000240231	Well ID:	240231
Original Owner:	TB-11/MW-10 TANK FARM		
Well Elevation (ft):	1408	Well Status:	Not Reported
Well Use:	Monitoring Well	Drill Depth (ft):	13
Completion Depth (ft):	13	Date Completed:	19831025
Casing Diameter (inches):	0	Casing Depth (ft):	0
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1395
Bottom Hole Elevation:	1395		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240231">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240231</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240231">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240231</a>		

**K65**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319374**

Well Number:	0000804718	Well ID:	804718
Original Owner:	GW4-DD	Well Elevation (ft):	1410
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20150723	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	5	Direction to Potential Contamination:	S
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	gravel (+larger)-brown	Bottom Open Strat Unit:	gravel (+larger)-brown
Top Open Strat Unit:	silt+clay-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1405	Open Hole Bottom Elevation:	1395
Bottom Hole Elevation:	1395		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804718">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804718</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804718">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804718</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**O66**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332966**

Well Number:	0000240243	Well ID:	240243
Original Owner:	TB-1 TANK FARM	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	17	Completion Depth (ft):	15
Date Completed:	19831024	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	pebbly sand/silt/clay
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1396	Bottom Hole Elevation:	1394
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240243">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240243</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240243">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240243</a>		

**K67**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000333075**

Well Number:	0000240248	Well ID:	240248
Original Owner:	TB-7	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1396	Bottom Hole Elevation:	1396
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240248">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240248</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240248">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240248</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**K68**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319368**

Well Number:	0000804722	Well ID:	804722
Original Owner:	GW4-HH	Well Elevation (ft):	1410
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	18	Completion Depth (ft):	18
Date Completed:	20150721	Casing Diameter (inches):	2
Casing Depth (ft):	8		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	5	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	gravel (+larger)-brown		
Top Open Strat Unit:	silt+clay-brown	Bottom Open Strat Unit:	gravel (+larger)-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1402	Open Hole Bottom Elevation:	1392
Bottom Hole Elevation:	1392		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804722">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804722</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804722">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804722</a>		

**O69**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000334942**

Well Number:	0000240251	Well ID:	240251
Original Owner:	TB-13 TANK FARM	Well Elevation (ft):	1412
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	6	Completion Depth (ft):	6
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1406
Bottom Hole Elevation:	1406		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240251">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240251</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240251">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240251</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**K70**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000330998**

Well Number:	0000240255	Well ID:	240255
Original Owner:	TB-17	Well Elevation (ft):	1408
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	8	Completion Depth (ft):	8
Date Completed:	0	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1400	Bottom Hole Elevation:	1400
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240255">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240255</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240255">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240255</a>		

**M71**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000337400**

Well Number:	0000333347	Well ID:	333347
Original Owner:	GP-1	Well Elevation (ft):	1414
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	14.5	Completion Depth (ft):	14.5
Date Completed:	20170322	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay-brown
Top Open Strat Unit:	silt+clay-brown	Bottom Open Strat Unit:	silt+clay-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1399.5
Bottom Hole Elevation:	1399.5		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000333347">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000333347</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000333347">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000333347</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**N72**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000314144**

Well Number:	0000804270	Well ID:	804270
Original Owner:	AT028-MW3	Well Elevation (ft):	1421
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	17	Completion Depth (ft):	17
Date Completed:	20140711	Casing Diameter (inches):	2
Casing Depth (ft):	7		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	gravel (+larger)-brown
Top Open Strat Unit:	gravel (+larger)-brown		
Bottom Open Strat Unit:	gravel (+larger)-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1414	Open Hole Bottom Elevation:	1404
Bottom Hole Elevation:	1404		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804270">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804270</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804270">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804270</a>		

**O73**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332583**

Well Number:	0000240244	Well ID:	240244
Original Owner:	TB2 DULUTH AFB TANK FARM		
Well Elevation (ft):	1411	Well Status:	Sealed
Well Use:	Monitoring Well	Drill Depth (ft):	10
Completion Depth (ft):	10	Date Completed:	19831024
Casing Diameter (inches):	0	Casing Depth (ft):	0
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	cly/snd/slt-no peb.-brn
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1401	Bottom Hole Elevation:	1401
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240244">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240244</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240244">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240244</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**K74**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319370**

Well Number:	0000804720	Well ID:	804720
Original Owner:	GW4-FF	Well Elevation (ft):	1411
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	18	Completion Depth (ft):	18
Date Completed:	20150721	Casing Diameter (inches):	2
Casing Depth (ft):	8		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	5	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Volatile Organic Compounds		
Depth to Bedrock:	0	First Stratigraphic Unit:	Not Reported
Last Stratigraphic Unit:	gravel (+larger)-brown		
Top Open Strat Unit:	silt+clay-brown	Bottom Open Strat Unit:	gravel (+larger)-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1403	Open Hole Bottom Elevation:	1393
Bottom Hole Elevation:	1393		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804720">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804720</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804720">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804720</a>		

**75**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000325320**

Well Number:	0000332019	Well ID:	332019
Original Owner:	TP-2	Well Elevation (ft):	1417
Well Status:	Sealed		
Well Use:	Other (specify in remarks)		
Drill Depth (ft):	23	Completion Depth (ft):	23
Date Completed:	20130924	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	pebbly sand/silt/clay
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1394	Bottom Hole Elevation:	1394
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000332019">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000332019</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000332019">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000332019</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**K76**  
**WNW**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000334860**

Well Number:	0000240249	Well ID:	240249
Original Owner:	TB-8	Well Elevation (ft):	1411
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	10	Completion Depth (ft):	10
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1401	Bottom Hole Elevation:	1401
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240249">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240249</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240249">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240249</a>		

**K77**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319373**

Well Number:	0000804719	Well ID:	804719
Original Owner:	GW4-EE	Well Elevation (ft):	1411
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20150722	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	5	Direction to Potential Contamination:	S
Type of Contamination:	Volatile Organic Compounds	First Stratigraphic Unit:	Not Reported
Depth to Bedrock:	0	Bottom Open Strat Unit:	gravel (+larger)-brown
Last Stratigraphic Unit:	gravel (+larger)-brown		
Top Open Strat Unit:	silt+clay-brown		
Aquifer:	Quat. Water Table Aquifer	Core Sample Taken:	Not Reported
Well Cuttings:	Not Reported	Geochem Info Exists:	Not Reported
Geophys Log Exists:	Not Reported	Observation Well:	Not Reported
Water Chemistry Info Exists:	Not Reported	Bedrock Elevation:	0
Static Water Level Reading:	Y	Open Hole Bottom Elevation:	1396
Open Hole Top Elevation:	1406		
Bottom Hole Elevation:	1396		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804719">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804719</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804719">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804719</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**78**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000188258**

Well Number:	0000456892	Well ID:	456892
Original Owner:	GW-7-G	Well Elevation (ft):	1417
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	17.2	Completion Depth (ft):	17.2
Date Completed:	19910420	Casing Diameter (inches):	2
Casing Depth (ft):	4.9		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	2000	Direction to Potential Contamination:	S
Type of Contamination:	Tanks	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand-brown
Top Open Strat Unit:	pebbly sand/silt/clay-brown		
Bottom Open Strat Unit:	sand-brown	Aquifer:	Quat. Water Table Aquifer
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1412.1	Open Hole Bottom Elevation:	1399.8
Bottom Hole Elevation:	1399.8		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000456892">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000456892</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000456892">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000456892</a>		

**079**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000319369**

Well Number:	0000804721	Well ID:	804721
Original Owner:	GW4-GG	Well Elevation (ft):	1413
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	20150723	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	5	Direction to Potential Contamination:	E
Type of Contamination:	Industrial	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	gravel (+larger)-brown
Top Open Strat Unit:	silt+clay-brown	Bottom Open Strat Unit:	gravel (+larger)-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1408	Open Hole Bottom Elevation:	1398
Bottom Hole Elevation:	1398		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804721">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804721</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804721">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804721</a>		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**80**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000337241**

Well Number:	0000827934	Well ID:	827934
Original Owner:	MW17-05	Well Elevation (ft):	1417
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	11	Completion Depth (ft):	11
Date Completed:	20170712	Casing Diameter (inches):	2
Casing Depth (ft):	1		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quaternary undiff.		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1416	Open Hole Bottom Elevation:	1406
Bottom Hole Elevation:	1406		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000827934">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000827934</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827934">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827934</a>		

**P81**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332593**

Well Number:	0000240232	Well ID:	240232
Original Owner:	TB-9/MW-11	Well Elevation (ft):	1414
Well Status:	Not Reported	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	13
Date Completed:	19831025	Casing Diameter (inches):	2
Casing Depth (ft):	0		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported		
Last Stratigraphic Unit:	pebbly sand/silt/clay-brown		
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	0	Open Hole Bottom Elevation:	1401
Bottom Hole Elevation:	1399		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240232">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240232</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240232">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240232</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**82**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000229815**

Well Number:	0000545638	Well ID:	545638
Original Owner:	DULUTH INT'L AIRPORT		
Well Elevation (ft):	1411	Well Status:	Sealed
Well Use:	Monitoring Well	Drill Depth (ft):	18
Completion Depth (ft):	18	Date Completed:	19950329
Casing Diameter (inches):	2	Casing Depth (ft):	10
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt
Top Open Strat Unit:	sand+silt	Bottom Open Strat Unit:	sand+silt
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1401	Open Hole Bottom Elevation:	1393
Bottom Hole Elevation:	1393		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000545638">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000545638</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000545638">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000545638</a>		

**83**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596259**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11BDA	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19120101
Well Depth:	16	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements:	1	Level reading date:	1957-01-01
Feet below surface:	5.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**Q84**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000328196**

Well Number:	0000333318	Well ID:	333318
Original Owner:	DULUTH INTN'L AIRPORT		
Well Elevation (ft):	1424	Well Status:	Sealed
Well Use:	Environ. bore hole		
Drill Depth (ft):	18	Completion Depth (ft):	18
Date Completed:	20160808	Casing Diameter (inches):	.75

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Casing Depth (ft):	10		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger-gray
Top Open Strat Unit:	clay+sand-brown	Bottom Open Strat Unit:	sand +larger-gray
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1414	Open Hole Bottom Elevation:	1406
Bottom Hole Elevation:	1406		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000333318">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000333318</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000333318">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000333318</a>		

**85**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596212**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W12CBD-2	Type:	Well
Description:	Not Reported	HUC:	04010201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19450101
Well Depth:	35	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements:      1		Level reading date:	1957-08-01
Feet below surface:	2.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**Q86**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000336176**

Well Number:	0000240222	Well ID:	240222
Original Owner:	MW-2 FIRE TRAINING AREA 2	Well Status:	Not Reported
Well Elevation (ft):	1424	Drill Depth (ft):	26.8
Well Use:	Monitoring Well	Date Completed:	19831026
Completion Depth (ft):	25	Casing Depth (ft):	15
Casing Diameter (inches):	2		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	pebbly sand/silt/clay
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	pebbly sand/silt/clay		
Aquifer:	Quaternary undiff.	Core Sample Taken:	Not Reported
Well Cuttings:	Not Reported	Geochem Info Exists:	Not Reported
Geophys Log Exists:	Not Reported	Observation Well:	Not Reported
Water Chemistry Info Exists:	Not Reported	Bedrock Elevation:	0
Static Water Level Reading:	Not Reported	Open Hole Bottom Elevation:	1399
Open Hole Top Elevation:	1409		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom Hole Elevation: 1397.2  
 Log URL: <https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240222>  
 Strat URL: <https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240222>

**R87**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS USGS40000596220**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W12CBB03	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19560101
Well Depth:	159	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**Q88**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS MN7000000331857**

Well Number:	0000240221	Well ID:	240221
Original Owner:	MW-1 FIRE TRAINING AREA 1	Well Status:	Not Reported
Well Elevation (ft):	1424	Drill Depth (ft):	26.5
Well Use:	Monitoring Well	Date Completed:	19831026
Completion Depth (ft):	25	Casing Depth (ft):	15
Casing Diameter (inches):	2	Grouted:	Well grouted, type unknown
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported		
Last Stratigraphic Unit:	pebbly sand/silt/clay-brown		
Top Open Strat Unit:	pebbly sand/silt/clay-brown		
Bottom Open Strat Unit:	pebbly sand/silt/clay-brown		
Aquifer:	Quaternary undiff.		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Not Reported	Bedrock Elevation:	0
Open Hole Top Elevation:	1409	Open Hole Bottom Elevation:	1399
Bottom Hole Elevation:	1397.5		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240221">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240221</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240221">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240221</a>		

**Q89**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS MN7000000244597**

Well Number:	0000638695	Well ID:	638695
Original Owner:	GW-2G	Well Elevation (ft):	1422
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	17	Completion Depth (ft):	17

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Date Completed:	19991019	Casing Diameter (inches):	2
Casing Depth (ft):	7		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay-red
Top Open Strat Unit:	clay-red	Bottom Open Strat Unit:	clay-red
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1415	Open Hole Bottom Elevation:	1405
Bottom Hole Elevation:	1405		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000638695">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000638695</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000638695">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000638695</a>		

**Q90**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332589**

Well Number:	0000240223	Well ID:	240223
Original Owner:	MW-3 (A) FIRE TRAINING AREA 2		
Well Elevation (ft):	1421	Well Status:	Sealed
Well Use:	Monitoring Well	Drill Depth (ft):	11
Completion Depth (ft):	11	Date Completed:	19831026
Casing Diameter (inches):	0	Casing Depth (ft):	0
Grouted:	Well known to be not grouted		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay+sand-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1410	Bottom Hole Elevation:	1410
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240223">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240223</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240223">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240223</a>		

**R91**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596217**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W12CBB02	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19550101
Well Depth:	30	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**Q92**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332588**

Well Number:	0000240224	Well ID:	240224
Original Owner:	MW-3 (B) FIRE TRAINING AREA 2		
Well Elevation (ft):	1421	Well Status:	Not Reported
Well Use:	Monitoring Well	Drill Depth (ft):	14
Completion Depth (ft):	14	Date Completed:	19831026
Casing Diameter (inches):	2	Casing Depth (ft):	9
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	sand +larger	Aquifer:	Quat. Water Table Aquifer
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1412	Open Hole Bottom Elevation:	1407
Bottom Hole Elevation:	1407		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240224">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240224</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240224">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240224</a>		

**93**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000226327**

Well Number:	0000646340	Well ID:	646340
Original Owner:	GW7-V	Well Elevation (ft):	1402
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	14	Completion Depth (ft):	14
Date Completed:	20010807	Casing Diameter (inches):	2
Casing Depth (ft):	9		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	boulder or boulders-black
Top Open Strat Unit:	sand +larger-brown		
Bottom Open Strat Unit:	boulder or boulders-black		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1393	Open Hole Bottom Elevation:	1388
Bottom Hole Elevation:	1388		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000646340">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000646340</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000646340">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000646340</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**94**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000330648**

Well Number:	0000340165	Well ID:	340165
Original Owner:	#1	Well Elevation (ft):	1395
Well Status:	Sealed		
Well Use:	Other (specify in remarks)		
Drill Depth (ft):	14	Completion Depth (ft):	14
Date Completed:	20171101	Casing Diameter (inches):	1
Casing Depth (ft):	9		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt
Top Open Strat Unit:	sand+silt	Bottom Open Strat Unit:	sand+silt
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1386	Open Hole Bottom Elevation:	1381
Bottom Hole Elevation:	1381		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000340165">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000340165</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000340165">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000340165</a>		

**Q95**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000314145**

Well Number:	0000804269	Well ID:	804269
Original Owner:	AT028-MW2	Well Elevation (ft):	1423
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	17	Completion Depth (ft):	17
Date Completed:	20140710	Casing Diameter (inches):	2
Casing Depth (ft):	7		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	gravel (+larger)-brown
Top Open Strat Unit:	gravel (+larger)-brown		
Bottom Open Strat Unit:	gravel (+larger)-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1416	Open Hole Bottom Elevation:	1406
Bottom Hole Elevation:	1406		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804269">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000804269</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804269">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804269</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**P96**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000245054**

Well Number:	0000639755	Well ID:	639755
Original Owner:	3MW-3B	Well Elevation (ft):	1411
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	15	Completion Depth (ft):	15
Date Completed:	19991019	Casing Diameter (inches):	2
Casing Depth (ft):	5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay-red
Top Open Strat Unit:	clay-red	Bottom Open Strat Unit:	clay-red
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1406	Open Hole Bottom Elevation:	1396
Bottom Hole Elevation:	1396		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000639755">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000639755</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000639755">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000639755</a>		

**97**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596299**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11BAB	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	13	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported
Ground water levels,Number of Measurements:	1	Level reading date:	1957-09-16
Feet below surface:	7.60	Feet to sea level:	Not Reported
Note:	Not Reported		

**98**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000314146**

Well Number:	0000804268	Well ID:	804268
Original Owner:	AT028-MW1	Well Elevation (ft):	1422
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	19	Completion Depth (ft):	19
Date Completed:	20140710	Casing Diameter (inches):	2
Casing Depth (ft):	9		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Grouted:	Well grouted, type unknown	Direction to Potential Contamination:	Not Reported
Dist from Potential Contamination:	0	Depth to Bedrock:	0
Type of Contamination:	Not Reported	Last Stratigraphic Unit:	gravel (+larger)-brown
First Stratigraphic Unit:	Not Reported		
Top Open Strat Unit:	gravel (+larger)-brown		
Bottom Open Strat Unit:	gravel (+larger)-brown		
Aquifer:	Quat. Water Table Aquifer	Core Sample Taken:	Not Reported
Well Cuttings:	Not Reported	Geochem Info Exists:	Not Reported
Geophys Log Exists:	Not Reported	Observation Well:	Not Reported
Water Chemistry Info Exists:	Not Reported	Bedrock Elevation:	0
Static Water Level Reading:	Y	Open Hole Bottom Elevation:	1403
Open Hole Top Elevation:	1413		
Bottom Hole Elevation:	1403		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804268">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804268</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804268">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804268</a>		

**99**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596214**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11DAD	Type:	Well
Description:	Not Reported	HUC:	04010201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19571028
Well Depth:	26.5	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**100**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000281852**

Well Number:	0000706764	Well ID:	706764
Original Owner:	MW-48	Well Elevation (ft):	1416
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	16	Completion Depth (ft):	16
Date Completed:	20060912	Casing Diameter (inches):	2
Casing Depth (ft):	6		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	W
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	cly/snd/slt-no peb.-brn
Top Open Strat Unit:	cly/snd/slt-no peb.-brn		
Bottom Open Strat Unit:	cly/snd/slt-no peb.-brn		
Aquifer:	Quat. Water Table Aquifer	Core Sample Taken:	Not Reported
Well Cuttings:	Not Reported	Geochem Info Exists:	Not Reported
Geophys Log Exists:	Not Reported	Observation Well:	Not Reported
Water Chemistry Info Exists:	Not Reported	Bedrock Elevation:	0
Static Water Level Reading:	Y	Open Hole Bottom Elevation:	1400
Open Hole Top Elevation:	1410		
Bottom Hole Elevation:	1400		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000706764">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000706764</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000706764">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000706764</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**S101**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000307804**

Well Number:	0000573029	Well ID:	573029
Original Owner:	NORTHWEST AIRLINES MAINTENANCE FACILITY		
Well Elevation (ft):	1420	Well Status:	Active
Well Use:	Elevator	Drill Depth (ft):	24
Completion Depth (ft):	23	Date Completed:	0
Casing Diameter (inches):	16	Casing Depth (ft):	23
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	14
First Stratigraphic Unit:	Duluth Cplx-layered series		
Last Stratigraphic Unit:	Duluth Cplx-layered series		
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	1406	Open Hole Top Elevation:	1397
Open Hole Bottom Elevation:	1397	Bottom Hole Elevation:	1396
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000573029">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000573029</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000573029">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000573029</a>		

**T102**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000188255**

Well Number:	0000456895	Well ID:	456895
Original Owner:	GW-7-J	Well Elevation (ft):	1402
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	20	Completion Depth (ft):	20
Date Completed:	19910418	Casing Diameter (inches):	2
Casing Depth (ft):	14.4		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	2000	Direction to Potential Contamination:	S
Type of Contamination:	Tanks	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger-brown
Top Open Strat Unit:	sand +larger-brown		
Bottom Open Strat Unit:	sand +larger-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1387.6	Open Hole Bottom Elevation:	1382
Bottom Hole Elevation:	1382		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000456895">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000456895</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000456895">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000456895</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**T103**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000188256**

Well Number:	0000456894	Well ID:	456894
Original Owner:	GW-7-I	Well Elevation (ft):	1407
Well Status:	Sealed	Well Use:	Monitoring Well
Drill Depth (ft):	16	Completion Depth (ft):	14.2
Date Completed:	19910418	Casing Diameter (inches):	2
Casing Depth (ft):	8.5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	2000	Direction to Potential Contamination:	S
Type of Contamination:	Tanks	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger-brown
Top Open Strat Unit:	sand +larger-brown		
Bottom Open Strat Unit:	sand +larger-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1398.5	Open Hole Bottom Elevation:	1392.8
Bottom Hole Elevation:	1391		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000456894">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000456894</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000456894">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000456894</a>		

**104**  
**North**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000188257**

Well Number:	0000456893	Well ID:	456893
Original Owner:	GW-7-H	Well Elevation (ft):	1406
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	16	Completion Depth (ft):	15
Date Completed:	19910419	Casing Diameter (inches):	2
Casing Depth (ft):	9.4		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	2000	Direction to Potential Contamination:	S
Type of Contamination:	Tanks	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger-brown
Top Open Strat Unit:	sand +larger-brown		
Bottom Open Strat Unit:	sand +larger-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1396.6	Open Hole Bottom Elevation:	1391
Bottom Hole Elevation:	1390		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000456893">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000456893</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000456893">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000456893</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**105**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000322261**

Well Number:	0000813975	Well ID:	813975
Original Owner:	SOLOMON, SARAH	Well Elevation (ft):	1395
Well Status:	Active	Well Use:	Domestic
Drill Depth (ft):	368	Completion Depth (ft):	368
Date Completed:	20150902	Casing Diameter (inches):	6
Casing Depth (ft):	47.5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	100	Direction to Potential Contamination:	W
Type of Contamination:	Other	Depth to Bedrock:	46
First Stratigraphic Unit:	Duluth Cplx-layered series		
Last Stratigraphic Unit:	Duluth Cplx-layered series		
Top Open Strat Unit:	Duluth Cplx-layered series		
Bottom Open Strat Unit:	Duluth Cplx-layered series		
Aquifer:	Duluth Cplx-layered series		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Not Reported	Bedrock Elevation:	1349
Open Hole Top Elevation:	1347.5	Open Hole Bottom Elevation:	1027
Bottom Hole Elevation:	1027		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000813975">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000813975</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000813975">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000813975</a>		

**S106**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000307791**

Well Number:	0000573030	Well ID:	573030
Original Owner:	NORTHWEST AIRLINES MAINTENANCE FACILITY		
Well Elevation (ft):	1420	Well Status:	Active
Well Use:	Elevator	Drill Depth (ft):	24
Completion Depth (ft):	23	Date Completed:	0
Casing Diameter (inches):	16	Casing Depth (ft):	23
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	22
First Stratigraphic Unit:	Duluth Cplx-layered series		
Last Stratigraphic Unit:	Duluth Cplx-layered series		
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	1398	Open Hole Top Elevation:	1397
Open Hole Bottom Elevation:	1397	Bottom Hole Elevation:	1396
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000573030">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellid=0000573030</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000573030">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000573030</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**U107**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS MN7000000333073**

Well Number:	0000240234	Well ID:	240234
Original Owner:	C-2	Well Elevation (ft):	1427
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1422	Bottom Hole Elevation:	1422
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240234">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240234</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240234">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240234</a>		

**U108**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS MN7000000333074**

Well Number:	0000240235	Well ID:	240235
Original Owner:	C-3	Well Elevation (ft):	1427
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1422	Bottom Hole Elevation:	1422
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240235">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240235</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240235">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240235</a>		

**U109**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS MN7000000332585**

Well Number:	0000240242	Well ID:	240242
Original Owner:	C-10	Well Elevation (ft):	1427
Well Status:	Not Reported	Well Use:	Environ. bore hole

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0		
Grouted:	Well known to be not grouted		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay+sand-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1422	Bottom Hole Elevation:	1422
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240242">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240242</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240242">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240242</a>		

**U110**  
West  
1/2 - 1 Mile  
Lower

**MN WELLS      MN7000000332967**

Well Number:	0000240233	Well ID:	240233
Original Owner:	C-1	Well Elevation (ft):	1427
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand +larger-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1422	Bottom Hole Elevation:	1422
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240233">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000240233</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240233">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240233</a>		

**U111**  
West  
1/2 - 1 Mile  
Lower

**MN WELLS      MN7000000334944**

Well Number:	0000240236	Well ID:	240236
Original Owner:	C-4	Well Elevation (ft):	1427
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1422	Bottom Hole Elevation:	1422
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240236">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240236</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240236">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240236</a>		

**U112**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000332584**

Well Number:	0000240238	Well ID:	240238
Original Owner:	C-6	Well Elevation (ft):	1427
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	cl/snd/slt-no peb.-brn
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1422	Bottom Hole Elevation:	1422
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240238">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240238</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240238">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240238</a>		

**U113**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000334943**

Well Number:	0000240237	Well ID:	240237
Original Owner:	C-5	Well Elevation (ft):	1427
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	silt+clay
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1422	Bottom Hole Elevation:	1422
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240237">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240237</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240237">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240237</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**U114**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**MN WELLS      MN7000000331422**

Well Number:	0000240241	Well ID:	240241
Original Owner:	C-9	Well Elevation (ft):	1434
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	cly/snd/slt-no peb.-brn
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1429	Bottom Hole Elevation:	1429
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240241">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240241</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240241">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240241</a>		

**U115**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000334210**

Well Number:	0000240239	Well ID:	240239
Original Owner:	C-7	Well Elevation (ft):	1434
Well Status:	Not Reported	Well Use:	Environ. bore hole
Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay+sand-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Not Reported
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1429	Bottom Hole Elevation:	1429
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240239">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000240239</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240239">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000240239</a>		

**U116**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**MN WELLS      MN7000000334211**

Well Number:	0000240240	Well ID:	240240
Original Owner:	C-8	Well Elevation (ft):	1434
Well Status:	Not Reported	Well Use:	Environ. bore hole



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Drill Depth (ft):	5	Completion Depth (ft):	5
Date Completed:	19831026	Casing Diameter (inches):	0
Casing Depth (ft):	0	Grouted:	U
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	clay+sand-brown
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	0	Open Hole Top Elevation:	0
Open Hole Bottom Elevation:	1429	Bottom Hole Elevation:	1429
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000240240">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000240240</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240240">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000240240</a>		

**V117**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000292853**

Well Number:	0000564553	Well ID:	564553
Original Owner:	MW-026-002	Well Elevation (ft):	1422
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	22	Completion Depth (ft):	19.4
Date Completed:	19950508	Casing Diameter (inches):	2
Casing Depth (ft):	9.4		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	gravel (+larger)
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	gravel (+larger)
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1412.6	Open Hole Bottom Elevation:	1402.6
Bottom Hole Elevation:	1400		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000564553">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000564553</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000564553">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000564553</a>		

**118**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000596309**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11ABB	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19450101
Well Depth:	22	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground water levels, Number of Measurements:	1	Level reading date:	1957-01-01
Feet below surface:	10.00	Feet to sea level:	Not Reported
Note:	Not Reported		

**119**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000337245**

Well Number:	0000827938	Well ID:	827938
Original Owner:	MW17-01	Well Elevation (ft):	1407
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	18	Completion Depth (ft):	18
Date Completed:	20170710	Casing Diameter (inches):	2
Casing Depth (ft):	8		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quaternary undiff.		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1399	Open Hole Bottom Elevation:	1389
Bottom Hole Elevation:	1389		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827938">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827938</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827938">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827938</a>		

**120**  
**NNE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000337244**

Well Number:	0000827937	Well ID:	827937
Original Owner:	MW17-02	Well Elevation (ft):	1413
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	12	Completion Depth (ft):	12
Date Completed:	20170711	Casing Diameter (inches):	2
Casing Depth (ft):	2		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quaternary undiff.		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1411	Open Hole Bottom Elevation:	1401
Bottom Hole Elevation:	1401		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827937">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827937</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827937">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827937</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**V121**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000292850**

Well Number:	0000564554	Well ID:	564554
Original Owner:	MW-26-003	Well Elevation (ft):	1422
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	22	Completion Depth (ft):	15.5
Date Completed:	19950506	Casing Diameter (inches):	2
Casing Depth (ft):	5.5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1416.5	Open Hole Bottom Elevation:	1406.5
Bottom Hole Elevation:	1400		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000564554">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000564554</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000564554">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000564554</a>		

**V122**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000292854**

Well Number:	0000564552	Well ID:	564552
Original Owner:	MW-026-001	Well Elevation (ft):	1425
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	26	Completion Depth (ft):	24.2
Date Completed:	19950505	Casing Diameter (inches):	2
Casing Depth (ft):	14.2		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	sand+silt-brown
Top Open Strat Unit:	sand+silt-brown	Bottom Open Strat Unit:	sand+silt-brown
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1410.8	Open Hole Bottom Elevation:	1400.8
Bottom Hole Elevation:	1399		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000564552">https://mnwellindex.web.health.state.mn.us/mwi/wellog.xhtml?wellId=0000564552</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000564552">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000564552</a>		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**123**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000135265**

Well Number:	0000701698	Well ID:	701698
Original Owner:	HEMMILA, BRUCE	Well Elevation (ft):	1375
Well Status:	Active	Well Use:	Domestic
Drill Depth (ft):	350	Completion Depth (ft):	350
Date Completed:	20040420	Casing Diameter (inches):	0
Casing Depth (ft):	36		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	100	Direction to Potential Contamination:	SW
Type of Contamination:	SEW	Depth to Bedrock:	36
First Stratigraphic Unit:	Duluth Complex	Last Stratigraphic Unit:	Duluth Complex
Top Open Strat Unit:	Duluth Complex	Bottom Open Strat Unit:	Duluth Complex
Aquifer:	Duluth Complex	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	1339	Open Hole Top Elevation:	1339
Open Hole Bottom Elevation:	1025	Bottom Hole Elevation:	1025
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000701698">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000701698</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000701698">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000701698</a>		

**124**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000596326**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W02CCD	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	20	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**125**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000314147**

Well Number:	0000804271	Well ID:	804271
Original Owner:	TU001-SB3	Well Elevation (ft):	1426
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	29	Completion Depth (ft):	29
Date Completed:	20140709	Casing Diameter (inches):	2
Casing Depth (ft):	19		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	gravel (+larger)-brown
Top Open Strat Unit:	gravel (+larger)-brown		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bottom Open Strat Unit:	gravel (+larger)-brown		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1407	Open Hole Bottom Elevation:	1397
Bottom Hole Elevation:	1397		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804271">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000804271</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804271">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000804271</a>		

**126**  
**NW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596377**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W02BDA	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19300101
Well Depth:	19	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**127**  
**ESE**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596258**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W12ADA	Type:	Well
Description:	Not Reported	HUC:	04010201
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19490101
Well Depth:	17	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**128**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**FED USGS      USGS40000596303**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11BBA	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19300101
Well Depth:	24.2	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**129**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**FED USGS      USGS40000596208**

Organization ID:	USGS-MN	Organization Name:	USGS Minnesota Water Science Center
Monitor Location:	050N15W11DCC	Type:	Well
Description:	Not Reported	HUC:	04010202
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Units:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19370101
Well Depth:	36	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

**130**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000210008**

Well Number:	0000544127	Well ID:	544127
Original Owner:	DULUTH CLINIC	Well Elevation (ft):	1387
Well Status:	Active	Well Use:	Elevator
Drill Depth (ft):	28	Completion Depth (ft):	26
Date Completed:	19940907	Casing Diameter (inches):	10
Casing Depth (ft):	27		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	23
First Stratigraphic Unit:	Duluth Cplx-layered series		
Last Stratigraphic Unit:	Duluth Cplx-layered series		
Top Open Strat Unit:	Not Reported	Bottom Open Strat Unit:	Not Reported
Aquifer:	Not Reported	Well Cuttings:	Not Reported
Core Sample Taken:	Not Reported	Geophys Log Exists:	Not Reported
Geochem Info Exists:	Not Reported	Water Chemistry Info Exists:	Not Reported
Observation Well:	Not Reported	Static Water Level Reading:	Y
Bedrock Elevation:	1364	Open Hole Top Elevation:	1360
Open Hole Bottom Elevation:	1361	Bottom Hole Elevation:	1359
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000544127">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellid=0000544127</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000544127">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellid=0000544127</a>		

**131**  
**NE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000337243**

Well Number:	0000827935	Well ID:	827935
Original Owner:	MW17-07	Well Elevation (ft):	1420
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	14	Completion Depth (ft):	14
Date Completed:	20170713	Casing Diameter (inches):	2
Casing Depth (ft):	4		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quaternary undiff.		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1416	Open Hole Bottom Elevation:	1406
Bottom Hole Elevation:	1406		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827935">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000827935</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827935">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000827935</a>		

**132**  
**ENE**  
**1/2 - 1 Mile**  
**Lower**

**MN WELLS      MN7000000334774**

Well Number:	0000809747	Well ID:	809747
Original Owner:	APA-MW02	Well Elevation (ft):	1428
Well Status:	Active	Well Use:	Monitoring Well
Drill Depth (ft):	17.5	Completion Depth (ft):	17.5
Date Completed:	20180119	Casing Diameter (inches):	2
Casing Depth (ft):	7.5		
Grouted:	Well grouted, type unknown		
Dist from Potential Contamination:	0	Direction to Potential Contamination:	Not Reported
Type of Contamination:	Not Reported	Depth to Bedrock:	0
First Stratigraphic Unit:	Not Reported	Last Stratigraphic Unit:	Quaternary deposit
Top Open Strat Unit:	Quaternary deposit		
Bottom Open Strat Unit:	Quaternary deposit		
Aquifer:	Quat. Water Table Aquifer		
Well Cuttings:	Not Reported	Core Sample Taken:	Not Reported
Geophys Log Exists:	Not Reported	Geochem Info Exists:	Not Reported
Water Chemistry Info Exists:	Not Reported	Observation Well:	Not Reported
Static Water Level Reading:	Y	Bedrock Elevation:	0
Open Hole Top Elevation:	1420.5	Open Hole Bottom Elevation:	1410.5
Bottom Hole Elevation:	1410.5		
Log URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000809747">https://mnwellindex.web.health.state.mn.us/mwi/welllog.xhtml?wellId=0000809747</a>		
Strat URL:	<a href="https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000809747">https://mnwellindex.web.health.state.mn.us/mwi/stratreport.xhtml?wellId=0000809747</a>		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: MN Radon

### Radon Test Results

Zipcode	Num Tests	Minimum	Maximum	Average	# > 4 pCi/L	# < 4 pCi/L
55811	880	0.0	229.9	4.1	228	652

Federal EPA Radon Zone for ST LOUIS County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level  $\geq$  2 pCi/L and  $\leq$  4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 55811

Number of sites tested: 8

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.875 pCi/L	75%	25%	0%



# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetlands Inventory

Source: Land Management Information Center

Telephone: 617-297-3281

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Minnesota Groundwater Database

Source: Minnesota Geological Survey County Water Well Index (CWI)

Telephone: 612-627-4780

## OTHER STATE DATABASE INFORMATION

### RADON

#### State Database: MN Radon

Source: Department of Health

Telephone: 651-215-0909

Radon Test Results

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

#### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

#### Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

#### Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

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DLH ATCT  
Lackland Street  
Duluth, MN 55811

Inquiry Number: 7172732.4

November 08, 2022

# EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Historical Topo Map Report

11/08/22

**Site Name:**

DLH ATCT  
Lackland Street  
Duluth, MN 55811  
EDR Inquiry # 7172732.4

**Client Name:**

Booz, Allen & Hamilton (FAA)  
1349 West Peachtree St NW Suite 1400  
Atlanta, GA 30309  
Contact: Scott Bolch



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Booz, Allen & Hamilton (FAA) were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	DLH ATCT	<b>Latitude:</b>	46.836905 46° 50' 13" North
<b>Project:</b>	DLH ATCT	<b>Longitude:</b>	-92.193519 -92° 11' 37" West
		<b>UTM Zone:</b>	Zone 15 North
		<b>UTM X Meters:</b>	561499.38
		<b>UTM Y Meters:</b>	5187355.93
		<b>Elevation:</b>	1431.00' above sea level

**Maps Provided:**

2019	1895
2016	
2013	
1993	
1981	
1975	
1969	
1953	

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## **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **2019 Source Sheets**



Duluth Heights  
2019  
7.5-minute, 24000

### **2016 Source Sheets**



Duluth Heights  
2016  
7.5-minute, 24000

### **2013 Source Sheets**



Duluth Heights  
2013  
7.5-minute, 24000

### **1993 Source Sheets**

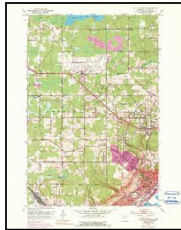


Duluth Heights  
1993  
7.5-minute, 24000  
Aerial Photo Revised 1991

## **Topo Sheet Key**

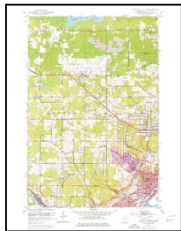
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1981 Source Sheets**



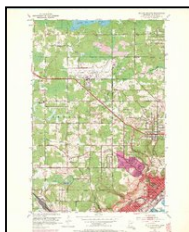
Duluth Heights  
1981  
7.5-minute, 24000  
Aerial Photo Revised 1975

### **1975 Source Sheets**



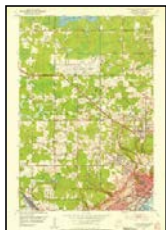
Duluth Heights  
1975  
7.5-minute, 24000  
Aerial Photo Revised 1975

### **1969 Source Sheets**



Duluth Heights  
1969  
7.5-minute, 24000  
Aerial Photo Revised 1969

### **1953 Source Sheets**

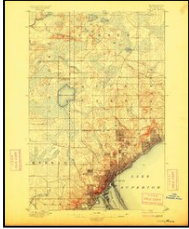


Duluth Heights  
1953  
7.5-minute, 24000  
Aerial Photo Revised 1952

## ***Topo Sheet Key***

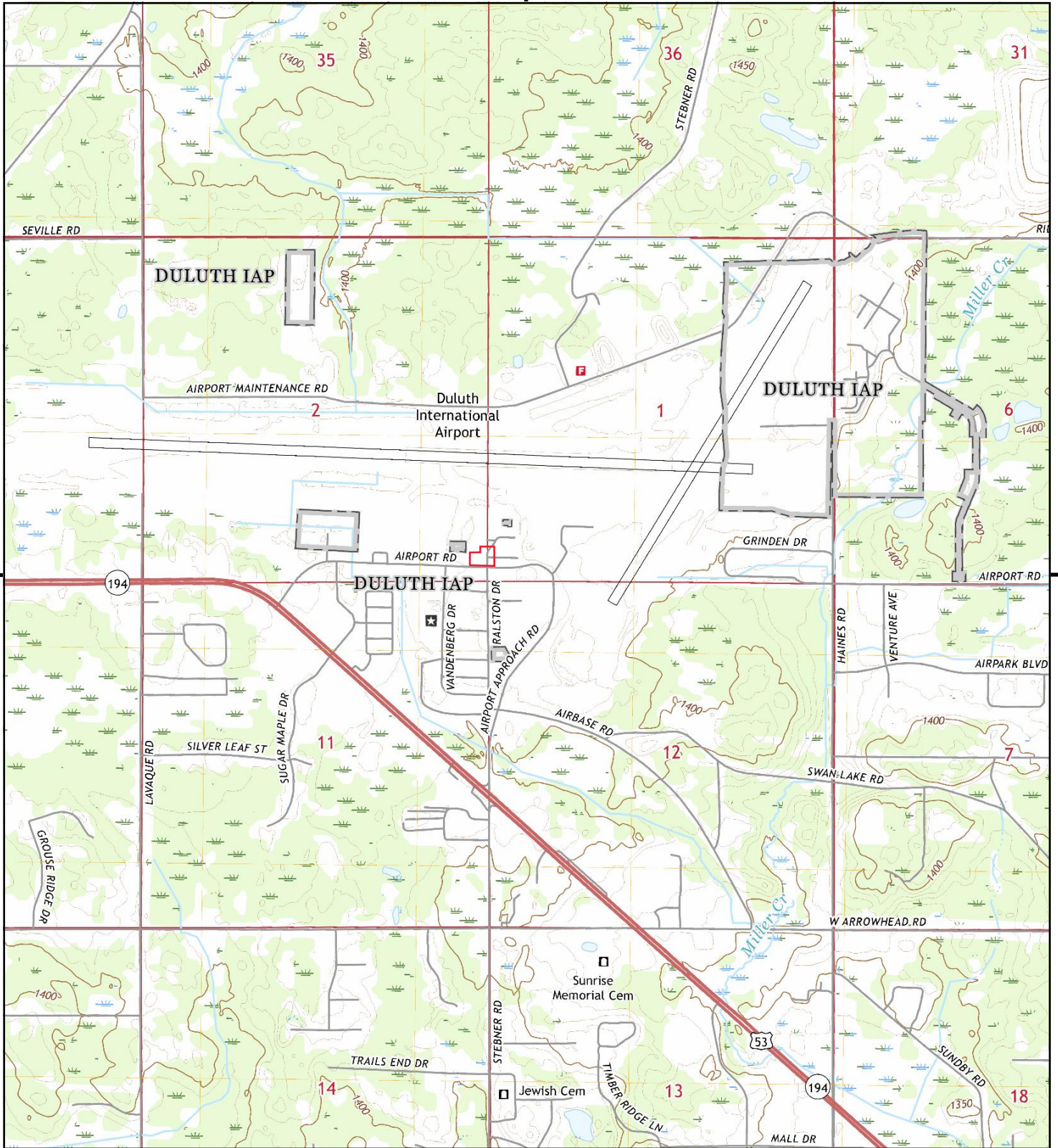
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### **1895 Source Sheets**



Duluth  
1895  
15-minute, 62500





This report includes information from the following map sheet(s).

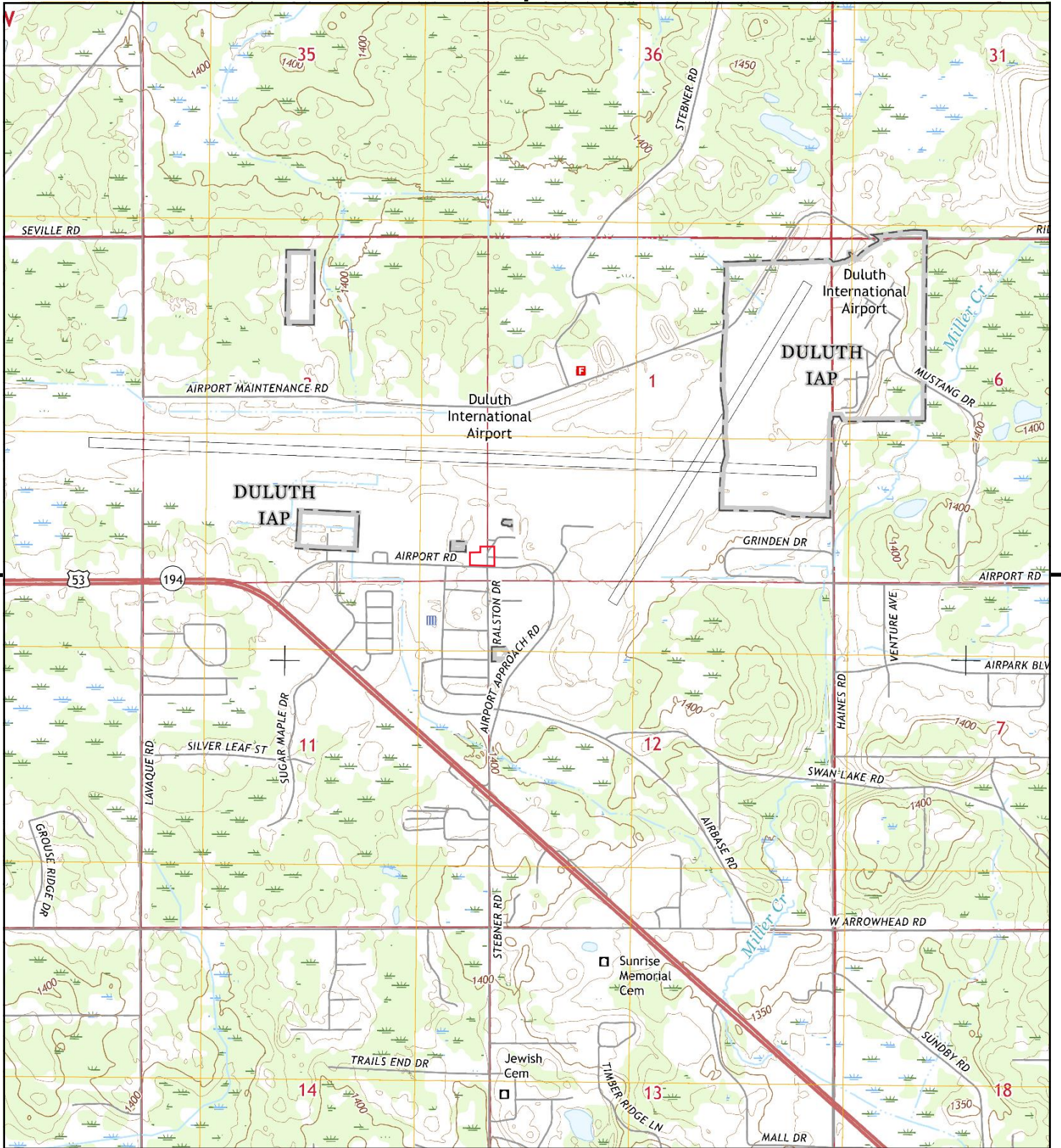


TP, Duluth Heights, 2019, 7.5-minute

**SITE NAME:** DLH ATCT  
**ADDRESS:** Lackland Street  
 Duluth, MN 55811  
**CLIENT:** Booz, Allen & Hamilton (FAA)







This report includes information from the following map sheet(s).



TP, Duluth Heights, 2016, 7.5-minute

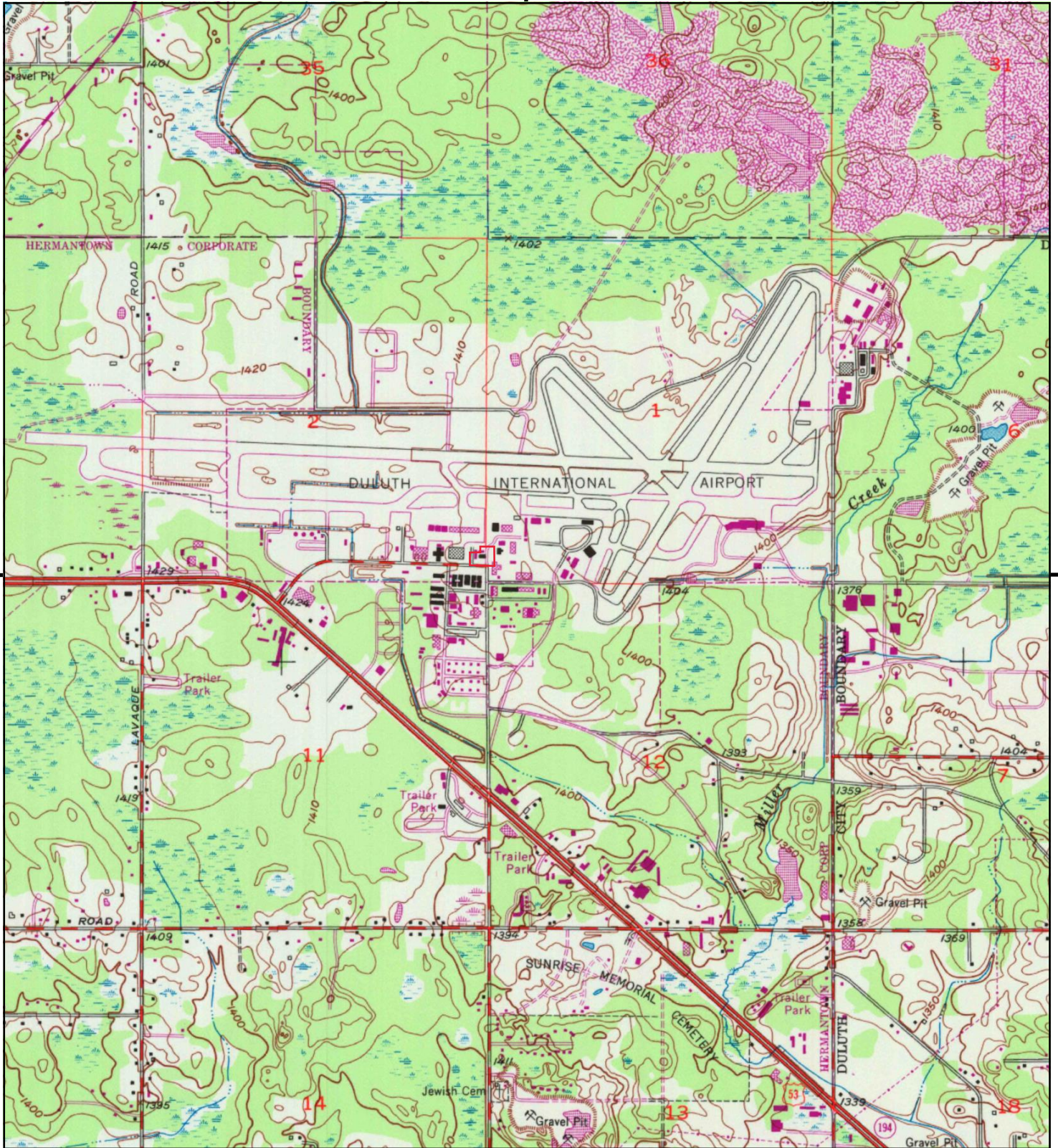
**SITE NAME:** DLH ATCT  
**ADDRESS:** Lackland Street  
 Duluth, MN 55811  
**CLIENT:** Booz, Allen & Hamilton (FAA)



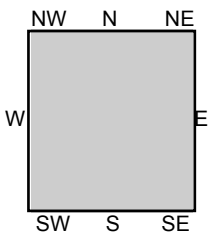








This report includes information from the following map sheet(s).

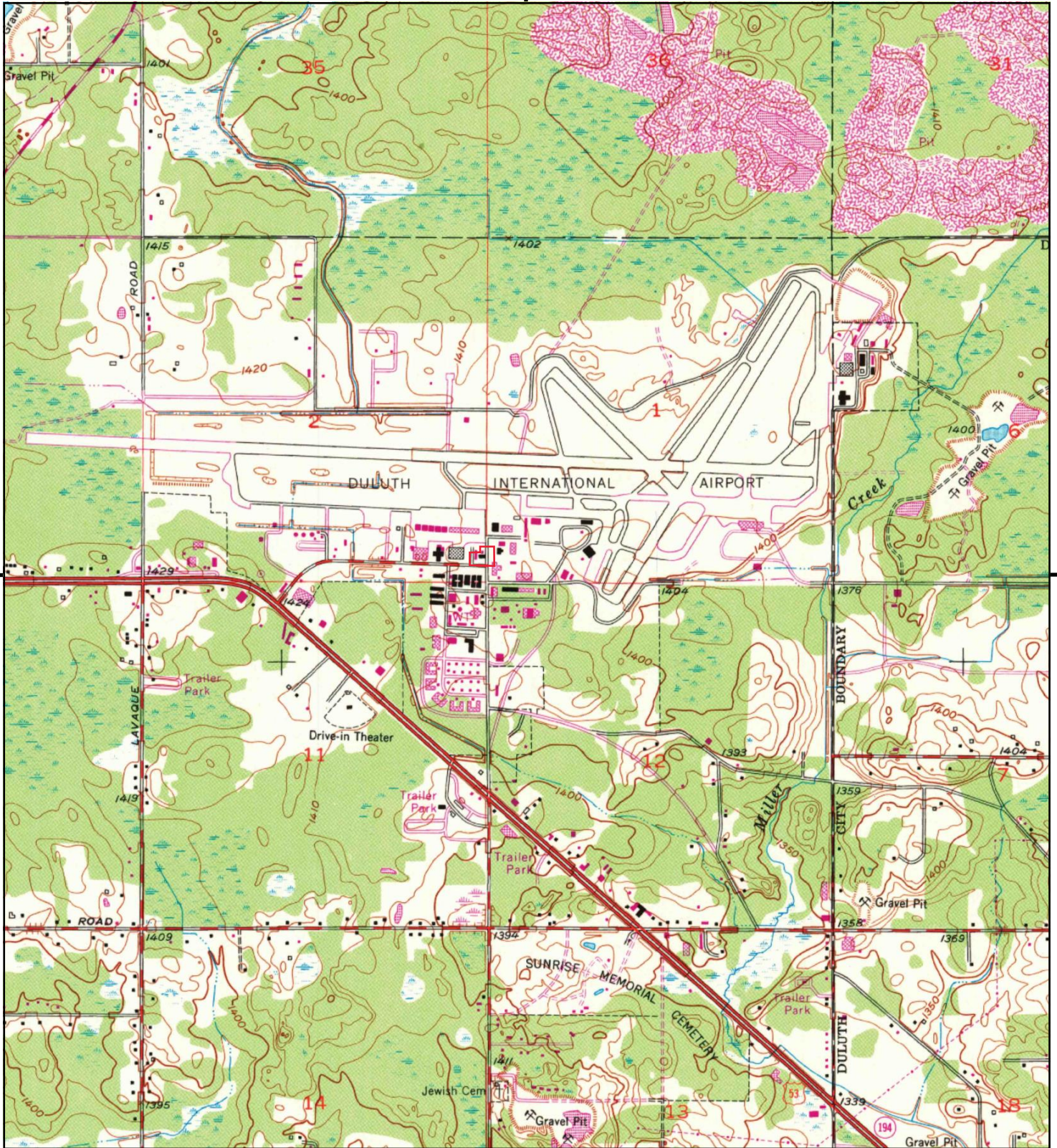


TP, Duluth Heights, 1993, 7.5-minute

SITE NAME: DLH ATCT  
 ADDRESS: Lackland Street  
 Duluth, MN 55811  
 CLIENT: Booz, Allen & Hamilton (FAA)







This report includes information from the following map sheet(s).

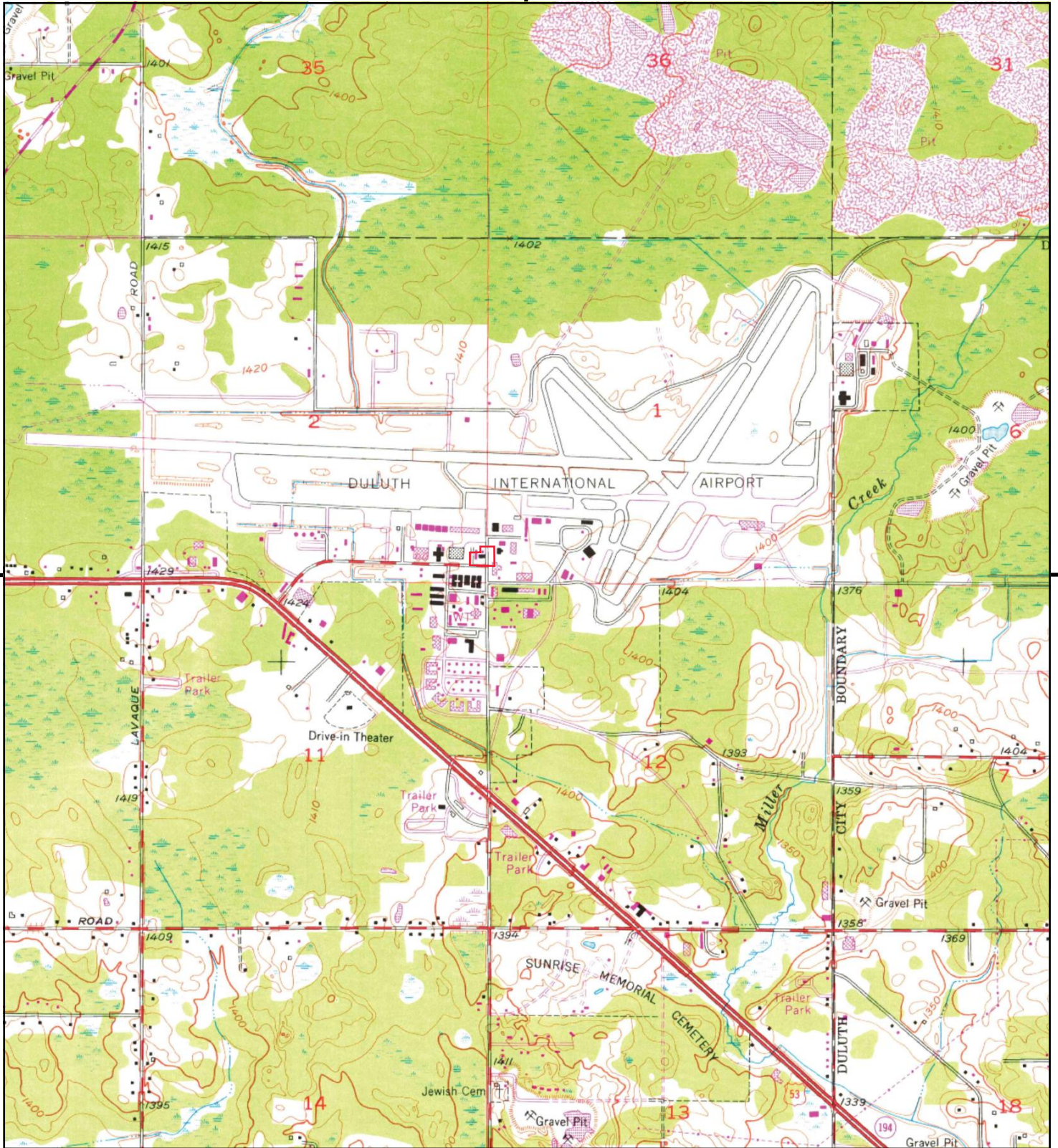


TP, Duluth Heights, 1981, 7.5-minute

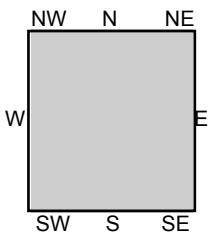
SITE NAME: DLH ATCT  
 ADDRESS: Lackland Street  
 Duluth, MN 55811  
 CLIENT: Booz, Allen & Hamilton (FAA)







This report includes information from the following map sheet(s).

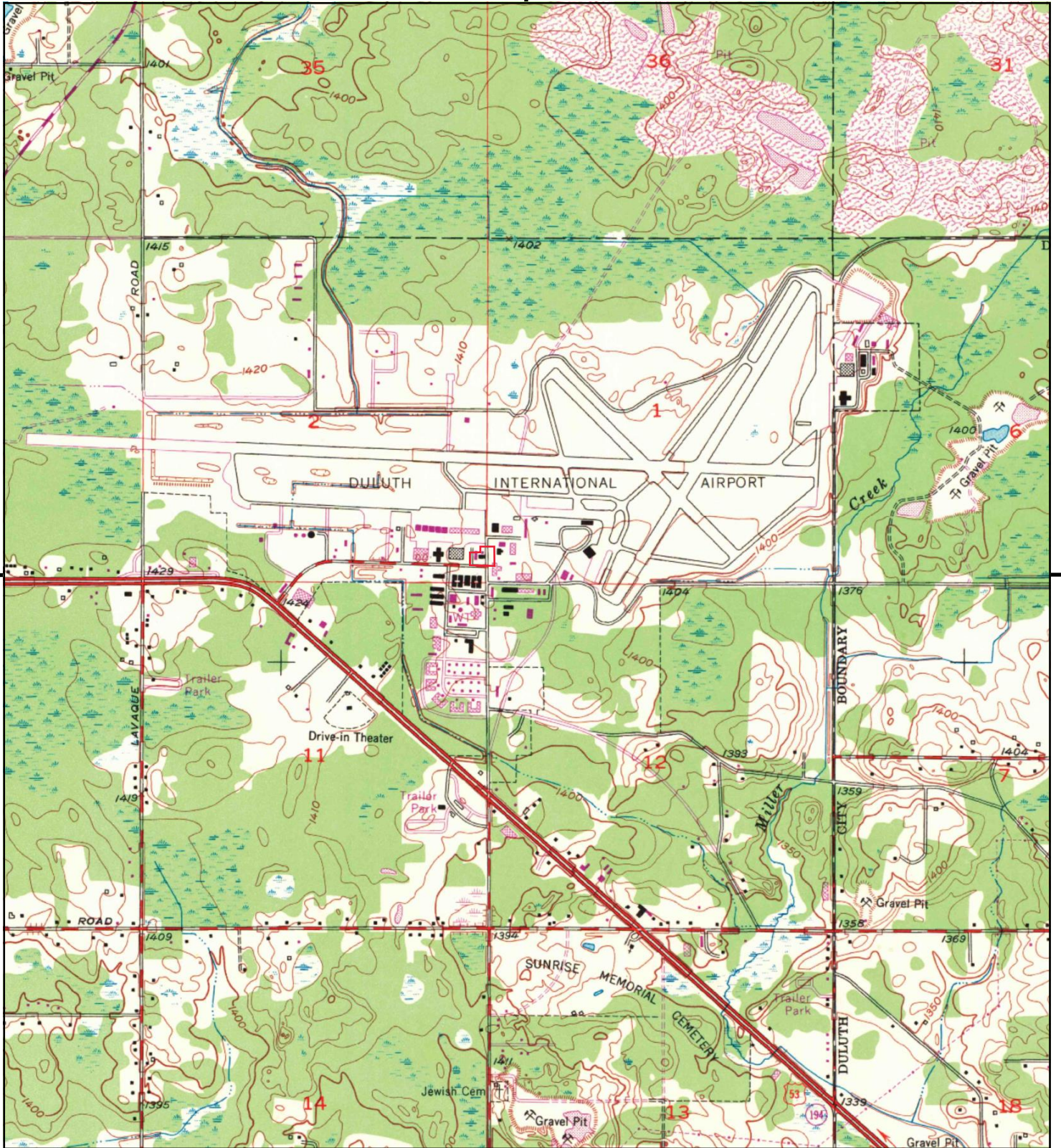


TP, Duluth Heights, 1975, 7.5-minute

SITE NAME: DLH ATCT  
 ADDRESS: Lackland Street  
 Duluth, MN 55811  
 CLIENT: Booz, Allen & Hamilton (FAA)







This report includes information from the following map sheet(s).



TP, Duluth Heights, 1969, 7.5-minute

SITE NAME: DLH ATCT  
 ADDRESS: Lackland Street  
 Duluth, MN 55811  
 CLIENT: Booz, Allen & Hamilton (FAA)







This report includes information from the following map sheet(s).

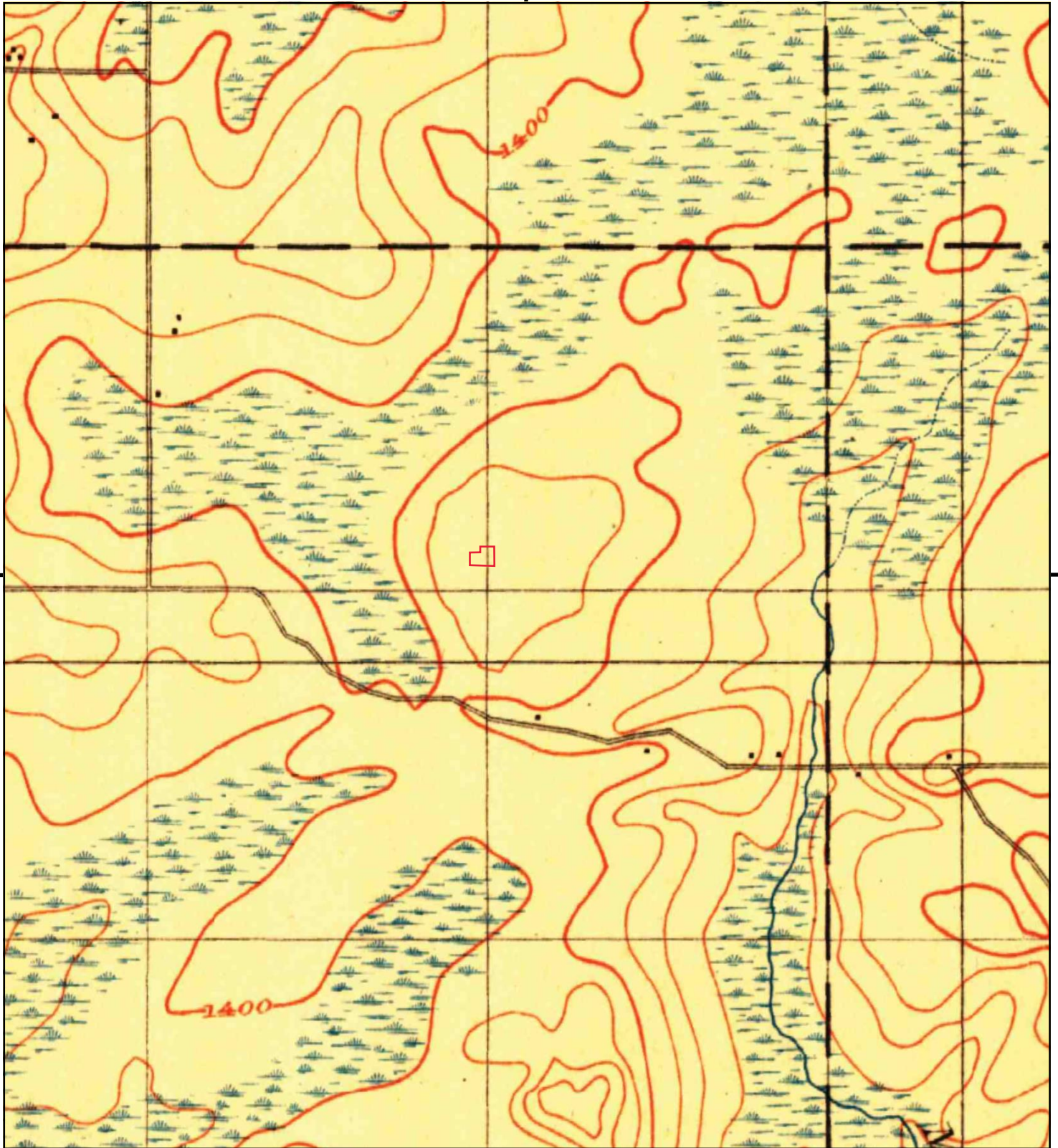


TP, Duluth Heights, 1953, 7.5-minute

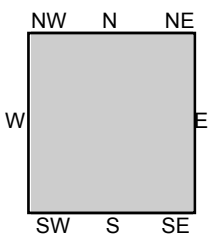
SITE NAME: DLH ATCT  
 ADDRESS: Lackland Street  
 Duluth, MN 55811  
 CLIENT: Booz, Allen & Hamilton (FAA)







This report includes information from the following map sheet(s).



TP, Duluth, 1895, 15-minute

SITE NAME: DLH ATCT  
ADDRESS: Lackland Street  
Duluth, MN 55811  
CLIENT: Booz, Allen & Hamilton (FAA)





**DLH ATCT**

Lackland Street

Duluth, MN 55811

Inquiry Number: 7172732.11

November 09, 2022

# The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

11/09/22

**Site Name:**

DLH ATCT  
Lackland Street  
Duluth, MN 55811  
EDR Inquiry # 7172732.11

**Client Name:**

Booz, Allen & Hamilton (FAA)  
1349 West Peachtree St NW Suite 1400  
Atlanta, GA 30309  
Contact: Scott Bolch



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1991	1"=500'	Acquisition Date: January 01, 1991	USGS/DOQQ
1989	1"=500'	Flight Date: September 14, 1989	St Louis
1981	1"=500'	Flight Date: June 30, 1981	St Louis
1972	1"=500'	Flight Date: September 05, 1972	St Louis
1961	1"=500'	Flight Date: July 07, 1961	FS
1952	1"=500'	Flight Date: May 02, 1952	USGS
1948	1"=500'	Flight Date: September 01, 1948	FS
1939	1"=500'	Flight Date: August 13, 1939	USDA

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INQUIRY #: 7172732.11

YEAR: 2017

— = 500'







INQUIRY #: 7172732.11

YEAR: 2013

— = 500'







INQUIRY #: 7172732.11

YEAR: 2010

— = 500'







INQUIRY #: 7172732.11

YEAR: 2006

— = 500'







INQUIRY #: 7172732.11

YEAR: 1991

— = 500'







INQUIRY #: 7172732.11

YEAR: 1989

— = 500'







INQUIRY #: 7172732.11

YEAR: 1981

— = 500'







INQUIRY #: 7172732.11

YEAR: 1972

— = 500'





INQUIRY #: 7172732.11

YEAR: 1961

— = 500'







INQUIRY #: 7172732.11

YEAR: 1952

— = 500'







INQUIRY #: 7172732.11

YEAR: 1948

— = 500'







INQUIRY #: 7172732.11

YEAR: 1939

— = 500'



DLH ATCT  
Lackland Street  
Duluth, MN 55811

Inquiry Number: 7172732.3

November 08, 2022

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



# Certified Sanborn® Map Report

11/08/22

**Site Name:**

DLH ATCT  
Lackland Street  
Duluth, MN 55811  
EDR Inquiry # 7172732.3

**Client Name:**

Booz, Allen & Hamilton (FAA)  
1349 West Peachtree St NW Suite 1400  
Atlanta, GA 30309  
Contact: Scott Bolch



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Booz, Allen & Hamilton (FAA) were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

## Certified Sanborn Results:

**Certification #** D83B-473A-AA2E

**PO #** DLH ATCT

**Project** DLH ATCT

### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: D83B-473A-AA2E

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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**DLH ATCT**  
LACKLAND STREET  
DULUTH, MN 55811

**Inquiry Number: 7172732.7S**  
NOVEMBER 10, 2022

## EDR Environmental Lien and AUL Search



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

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- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

DLH ATCT  
LACKLAND STREET  
DULUTH, MN 55811

#### RESEARCH SOURCE

JUDICIAL RECORDS **NOT** SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION **DOES NOT** REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

Source 1: ST LOUIS COUNTY RECORDER'S OFFICE  
Source 2: MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### PROPERTY INFORMATION

**Legal Description:** LOT: 0001 BLOCK:001  
**Current Owner:** CITY OF DULUTH  
**Property Identifiers:** 010-0148-00010  
**Comments:** NO DEED FOUND 1980 - PRESENT.

## EDR Environmental Lien and AUL Search

### **ENVIRONMENTAL LIEN**

Environmental Lien: Found  Not Found

Comments: NONE IDENTIFIED.

### **OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found  Not Found

Comments: NONE IDENTIFIED.

## EDR Environmental Lien and AUL Search

### **MISCELLANEOUS**

Comments: NONE IDENTIFIED.

**DLH ATCT**  
LACKLAND STREET  
DULUTH, MN 55811

**Inquiry Number: 7172732.7S**  
NOVEMBER 10, 2022

## EDR Environmental Lien and AUL Search



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Shelton, CT 06484  
Toll Free: 800.352.0050  
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- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

DLH ATCT  
LACKLAND STREET  
DULUTH, MN 55811

#### RESEARCH SOURCE

JUDICIAL RECORDS **NOT** SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION **DOES NOT** REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

Source 1: ST LOUIS COUNTY RECORDER'S OFFICE  
Source 2: MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### PROPERTY INFORMATION

**Legal Description:** LOT: 0007 BLOCK:001  
**Current Owner:** CITY OF DULUTH  
**Property Identifiers:** 010-0148-00070  
**Comments:** NO DEED FOUND 1980 - PRESENT.

## EDR Environmental Lien and AUL Search

### **ENVIRONMENTAL LIEN**

Environmental Lien: Found  Not Found

Comments: NONE IDENTIFIED.

### **OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found  Not Found

Comments: NONE IDENTIFIED.

## EDR Environmental Lien and AUL Search

### **MISCELLANEOUS**

Comments: NONE IDENTIFIED.

**DLH ATCT**  
LACKLAND STREET  
DULUTH, MN 55811

**Inquiry Number: 7172732.7S**  
NOVEMBER 10, 2022

## EDR Environmental Lien and AUL Search



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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

DLH ATCT  
LACKLAND STREET  
DULUTH, MN 55811

#### RESEARCH SOURCE

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Source 1: ST LOUIS COUNTY RECORDER'S OFFICE  
Source 2: MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### PROPERTY INFORMATION

**Legal Description:** LOT: 0008 BLOCK:001  
**Current Owner:** CITY OF DULUTH  
**Property Identifiers:** 010-0148-00080  
**Comments:** NO DEED FOUND 1980 - PRESENT.

## EDR Environmental Lien and AUL Search

### **ENVIRONMENTAL LIEN**

Environmental Lien: Found  Not Found

Comments: NONE IDENTIFIED.

### **OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found  Not Found

Comments: NONE IDENTIFIED.

## EDR Environmental Lien and AUL Search

### **MISCELLANEOUS**

Comments: NONE IDENTIFIED.



**DLH ATCT**  
LACKLAND STREET  
DULUTH, MN 55811

**Inquiry Number: 7172732.7S**  
NOVEMBER 10, 2022

## EDR Environmental Lien and AUL Search



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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

DLH ATCT  
LACKLAND STREET  
DULUTH, MN 55811

#### RESEARCH SOURCE

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Source 1: ST LOUIS COUNTY RECORDER'S OFFICE  
Source 2: MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### PROPERTY INFORMATION

**Legal Description:** LOT 1 BLOCK 4 INC PART OF VAC MALSTROM ST ADJ LYING W OF STEBNER ROAD  
**Current Owner:** CITY OF DULUTH  
**Property Identifiers:** 010-0148-00200  
**Comments:** NO DEED FOUND 1980 - PRESENT.

## EDR Environmental Lien and AUL Search

### **ENVIRONMENTAL LIEN**

Environmental Lien: Found  Not Found

Comments: NONE IDENTIFIED.

### **OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found  Not Found

Comments: NONE IDENTIFIED.

## EDR Environmental Lien and AUL Search

### **MISCELLANEOUS**

Comments: NONE IDENTIFIED.

**DLH ATCT**  
LACKLAND STREET  
DULUTH, MN 55811

**Inquiry Number: 7172732.7S**  
NOVEMBER 10, 2022

## EDR Environmental Lien and AUL Search



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- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

DLH ATCT  
LACKLAND STREET  
DULUTH, MN 55811

#### RESEARCH SOURCE

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Source 1: ST LOUIS COUNTY RECORDER'S OFFICE  
Source 2: MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### PROPERTY INFORMATION

**Legal Description:** LOT: 0002 BLOCK:004 INC PT OF VAC R/W ADJ  
**Current Owner:** CITY OF DULUTH  
**Property Identifiers:** 010-0148-00210  
**Comments:** NO DEED FOUND 1980 - PRESENT.



## EDR Environmental Lien and AUL Search

### **ENVIRONMENTAL LIEN**

Environmental Lien: Found  Not Found

Comments: NONE IDENTIFIED.

### **OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's: Found  Not Found

Comments: NONE IDENTIFIED.

## EDR Environmental Lien and AUL Search

### **MISCELLANEOUS**

Comments: NONE IDENTIFIED.

**DLH ATCT**  
LACKLAND STREET  
DULUTH, MN 55811

**Inquiry Number: 7172732.7S**  
NOVEMBER 10, 2022

## EDR Environmental Lien and AUL Search



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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

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LACKLAND STREET  
DULUTH, MN 55811

#### RESEARCH SOURCE

JUDICIAL RECORDS **NOT** SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION **DOES NOT** REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

Source 1: ST LOUIS COUNTY RECORDER'S OFFICE  
Source 2: MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### PROPERTY INFORMATION

**Legal Description:** LOT: 0005 BLOCK:004  
**Current Owner:** CITY OF DULUTH  
**Property Identifiers:** 010-0148-00240  
**Comments:** NO DEED FOUND 1980 - PRESENT.

## EDR Environmental Lien and AUL Search

### **ENVIRONMENTAL LIEN**

Environmental Lien:          Found           Not Found

Comments:                  NONE IDENTIFIED.

### **OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's:                  Found           Not Found

Comments:                  NONE IDENTIFIED.

## EDR Environmental Lien and AUL Search

### **MISCELLANEOUS**

Comments: NONE IDENTIFIED.

**DLH ATCT**  
LACKLAND STREET  
DULUTH, MN 55811

**Inquiry Number: 7172732.7S**  
NOVEMBER 10, 2022

## EDR Environmental Lien and AUL Search



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)



## EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

**Thank you for your business.**  
Please contact EDR at 1-800-352-0050  
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## EDR Environmental Lien and AUL Search

### TARGET PROPERTY INFORMATION

#### ADDRESS

DLH ATCT  
LACKLAND STREET  
DULUTH, MN 55811

#### RESEARCH SOURCE

JUDICIAL RECORDS **NOT** SEARCHED. BASED ON AVAILABLE INFORMATION EVALUATED BY THE TITLE SEARCH PROFESSIONAL, THE JURISDICTION **DOES NOT** REQUIRE A SEARCH OF JUDICIAL RECORDS IN ORDER TO IDENTIFY ENVIRONMENTAL LIENS.

Source 1: ST LOUIS COUNTY RECORDER'S OFFICE  
Source 2: MINNESOTA DEPARTMENT OF NATURAL RESOURCES  
Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### PROPERTY INFORMATION

**Legal Description:** LOT: 0007 BLOCK:004  
**Current Owner:** CITY OF DULUTH  
**Property Identifiers:** 010-0148-00260  
**Comments:** NO DEED FOUND 1980 - PRESENT.

## EDR Environmental Lien and AUL Search

### **ENVIRONMENTAL LIEN**

Environmental Lien:          Found           Not Found

Comments:                  NONE IDENTIFIED.

### **OTHER ACTIVITY AND USE LIMITATIONS (AULS)**

Other AUL's:                  Found           Not Found

Comments:                  NONE IDENTIFIED.

## EDR Environmental Lien and AUL Search

### **MISCELLANEOUS**

Comments: NONE IDENTIFIED.

## APPENDIX D USDA SOIL REPORT

# Custom Soil Resource Report for St. Louis County, Minnesota, Duluth Part

## Site 6



# Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# How Soil Surveys Are Made

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Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

## Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

## Custom Soil Resource Report

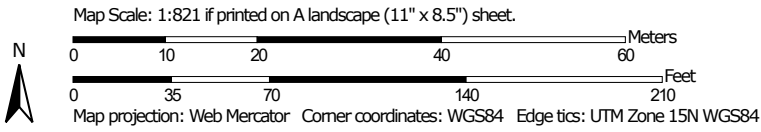
identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

---


The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

# Custom Soil Resource Report Soil Map



### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)


**Soils**


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**

 Blowout


 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit


 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
 Web Soil Survey URL:  
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: St. Louis County, Minnesota, Duluth Part  
 Survey Area Data: Version 20, Sep 6, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 30, 2020—Sep 18, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
F158B	Urban land-Normanna-Canosia complex, 0 to 8 percent slopes	2.4	100.0%
<b>Totals for Area of Interest</b>		<b>2.4</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,



## Custom Soil Resource Report

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## St. Louis County, Minnesota, Duluth Part

### F158B—Urban land-Normanna-Canosia complex, 0 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* 1jtqj  
*Elevation:* 1,150 to 1,800 feet  
*Mean annual precipitation:* 28 to 31 inches  
*Mean annual air temperature:* 36 to 43 degrees F  
*Frost-free period:* 80 to 140 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Urban land:* 50 percent  
*Canosia and similar soils:* 20 percent  
*Normanna and similar soils:* 20 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Urban Land

##### Setting

*Landform:* Moraines  
*Parent material:* Fill material from surrounding uplands, gravel pits and blasted bedrock.

#### Description of Canosia

##### Setting

*Landform:* Depressions on moraines  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Parent material:* Loamy material over dense loamy till

##### Typical profile

*A - 0 to 5 inches:* loam  
*Bw - 5 to 25 inches:* gravelly sandy loam  
*2Bw,2BC - 25 to 34 inches:* gravelly sandy loam  
*2BCd - 34 to 80 inches:* gravelly sandy loam

##### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* 30 to 60 inches to densic material  
*Drainage class:* Poorly drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* About 0 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Low (about 4.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4w  
*Hydrologic Soil Group:* D  
*Ecological site:* F093AY007MN - Wet Loamy

## Custom Soil Resource Report

*Forage suitability group:* Level Swale, Acid (G093AN005MN)  
*Other vegetative classification:* Level Swale, Acid (G093AN005MN)  
*Hydric soil rating:* Yes

### Description of Normanna

#### Setting

*Landform:* Moraines  
*Landform position (two-dimensional):* Summit, backslope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loamy material over dense loamy till

#### Typical profile

*A - 0 to 4 inches:* loam  
*Bw - 4 to 45 inches:* gravelly sandy loam  
*2Bw,BC,2BC - 45 to 48 inches:* gravelly sandy loam  
*2BCd - 48 to 80 inches:* gravelly sandy loam

#### Properties and qualities

*Slope:* 3 to 8 percent  
*Depth to restrictive feature:* 30 to 60 inches to densic material  
*Drainage class:* Moderately well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Depth to water table:* About 18 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water supply, 0 to 60 inches:* Low (about 4.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3s  
*Hydrologic Soil Group:* B/D  
*Ecological site:* F093AY013MN - Till Upland Forest  
*Forage suitability group:* Sloping Upland, Acid (G093AN006MN)  
*Other vegetative classification:* Sloping Upland, Acid (G093AN006MN)  
*Hydric soil rating:* No

### Minor Components

#### Rock outcrop

*Percent of map unit:* 5 percent  
*Landform:* Moraines  
*Ecological site:* F093AY009MN - Bedrock Controlled Upland Forest  
*Other vegetative classification:* Rocky (G093AN019MN)  
*Hydric soil rating:* Unranked

#### Giese, depressional

*Percent of map unit:* 5 percent  
*Landform:* Depressions on moraines  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* F093AY006MN - Depressional Wet Hardwood Forest  
*Other vegetative classification:* Not Suited (G093AN024MN)  
*Hydric soil rating:* Yes

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## APPENDIX E THREATENED AND ENDANGERED SPECIES LIST

# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

St. Louis County, Minnesota



## Local office

Minnesota-Wisconsin Ecological Services Field Office

☎ (952) 858-0793

📅 (952) 646-2873

3815 American Blvd East



NOT FOR CONSULTATION

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

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1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

## Mammals

NAME	STATUS
Canada Lynx <i>Lynx canadensis</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. <a href="https://ecos.fws.gov/ecp/species/3652">https://ecos.fws.gov/ecp/species/3652</a>	Threatened
Gray Wolf <i>Canis lupus</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. <a href="https://ecos.fws.gov/ecp/species/4488">https://ecos.fws.gov/ecp/species/4488</a>	Threatened
Northern Long-eared Bat <i>Myotis septentrionalis</i> Wherever found No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Endangered

## Birds

NAME	STATUS
Piping Plover <i>Charadrius melodus</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. <a href="https://ecos.fws.gov/ecp/species/6039">https://ecos.fws.gov/ecp/species/6039</a>	Endangered
Red Knot <i>Calidris canutus rufa</i> Wherever found There is <b>proposed</b> critical habitat for this species. <a href="https://ecos.fws.gov/ecp/species/1864">https://ecos.fws.gov/ecp/species/1864</a>	Threatened

## Insects

NAME	STATUS
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Monarch Butterfly *Danaus plexippus*

Candidate

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/9743>

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

NAME	TYPE
Canada Lynx <i>Lynx canadensis</i> <a href="https://ecos.fws.gov/ecp/species/3652#crithab">https://ecos.fws.gov/ecp/species/3652#crithab</a>	Final

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds  
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds  
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this

location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<p><b>Bald Eagle</b> <i>Haliaeetus leucocephalus</i>            This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.</p>	Breeds Dec 1 to Aug 31
<p><b>Black Tern</b> <i>Chlidonias niger</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/3093">https://ecos.fws.gov/ecp/species/3093</a></p>	Breeds May 15 to Aug 20
<p><b>Black-billed Cuckoo</b> <i>Coccyzus erythrophthalmus</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9399">https://ecos.fws.gov/ecp/species/9399</a></p>	Breeds May 15 to Oct 10
<p><b>Bobolink</b> <i>Dolichonyx oryzivorus</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 20 to Jul 31
<p><b>Canada Warbler</b> <i>Cardellina canadensis</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 20 to Aug 10
<p><b>Chimney Swift</b> <i>Chaetura pelagica</i>            This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Mar 15 to Aug 25

<p>Common Tern <i>Sterna hirundo hirundo</i>  This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	<p>Breeds May 1 to Aug 31</p>
<p>Connecticut Warbler <i>Oporornis agilis</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds Jun 15 to Aug 10</p>
<p>Evening Grosbeak <i>Coccothraustes vespertinus</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	<p>Breeds May 15 to Aug 10</p>
<p>Golden Eagle <i>Aquila chrysaetos</i>  This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/1680">https://ecos.fws.gov/ecp/species/1680</a></p>	<p>Breeds Jan 1 to Aug 31</p>
<p>Golden-winged Warbler <i>Vermivora chrysoptera</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/8745">https://ecos.fws.gov/ecp/species/8745</a></p>	<p>Breeds May 1 to Jul 20</p>
<p>Lesser Yellowlegs <i>Tringa flavipes</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a></p>	<p>Breeds elsewhere</p>
<p>Long-eared Owl <i>asio otus</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/3631">https://ecos.fws.gov/ecp/species/3631</a></p>	<p>Breeds Mar 1 to Jul 15</p>
<p>Olive-sided Flycatcher <i>Contopus cooperi</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/3914">https://ecos.fws.gov/ecp/species/3914</a></p>	<p>Breeds May 20 to Aug 31</p>
<p>Ruddy Turnstone <i>Arenaria interpres morinella</i>  This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	<p>Breeds elsewhere</p>

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

## Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (l)







**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid

cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering or migrating in my area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### **Details about birds that are potentially affected by offshore projects**

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to

you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## Coastal Barrier Resources System

Projects within the [John H. Chafee Coastal Barrier Resources System](#) (CBRS) may be subject to the restrictions on Federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local [Ecological Services Field Office](#) or visit the [CBRA Consultations website](#). The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

There are no known coastal barriers at this location.

## Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the [official CBRS maps](#). The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: <https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation>

## Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact [CBRA@fws.gov](mailto:CBRA@fws.gov).

# Facilities

## National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

## Fish hatcheries

There are no fish hatcheries at this location.

# Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

## Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Phase II Environmental Site Assessment

# Site 6 - Proposed Air Traffic Control Tower

Duluth, Minnesota

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DULAI 171568 | April 5, 2023



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Engineers | Architects | Planners | Scientists



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April 5, 2023

RE: Site 6 - Proposed Air Traffic Control Tower  
Phase II Environmental Site Assessment  
Portions of Parcel ID Numbers: 010-0148-  
00200, 010-0148-00080, and 010-0148-  
00020  
Duluth International Airport  
Duluth, Minnesota  
SEH No. DULAI 171568

Mr. Mark Papko  
Duluth Airport Authority  
4701 Grinden Drive  
Duluth, MN 55811

Dear Mr. Papko:

Please find enclosed the Phase II Environmental Site Assessment for the Site 6 - Proposed Air Traffic Control Tower site located at the Duluth International Airport (herein referred to as the Subject Property). The Subject Property includes portions of Parcel ID Numbers: 010-0148-00200 (4913 Airport Road), 010-0148-00080 (4550 Stebner Road), and 010-0148-00020 and is generally located north of the intersection of Airport and Stebner Roads in Duluth, Minnesota. Thank you for choosing SEH to complete this assessment. Please feel free to contact me at 612.839.2430 if you have any questions or comments.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jennifer Force".

Jennifer Force, PG  
Senior Scientist II  
(Lic. MN)

ea

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 418 W Superior St Ste 200, Duluth, MN 55802

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# Certification

Phase II Environmental Site Assessment  
Site 6 - Proposed Air Traffic Control Tower  
Duluth, Minnesota

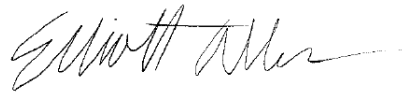
SEH No. DULAI 171568

April 5, 2023



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Jennifer Force, PG  
Senior Scientist II



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Elliott Allen, GIT  
Graduate Scientist

Short Elliott Hendrickson Inc.  
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# Distribution

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Mark Papko  
Duluth Airport Authority  
4701 Grinden Drive  
Duluth, MN 55811



# Executive Summary

## Phase II Environmental Investigation

Short Elliott Hendrickson Inc. (SEH®) was retained by the Duluth Airport Authority to conduct a Phase II Environmental Site Assessment (ESA) of Site 6 for the proposed air traffic control tower at the Duluth International Airport. Site 6 consists of portions of Parcel ID Numbers: 010-0148-00200 (4913 Airport Road), 010-0148-00080 (4550 Stebner Road), and 010-0148-00020 and is generally located north of the intersection of Airport and Stebner Roads in Duluth, Minnesota (herein referred to as “Subject Property”).

This investigation was performed for the following purposes.

- To evaluate if Recognized Environmental Conditions (RECs) identified by the Phase I ESA recently completed for the Subject Property by Federal Aviation Administration have impacted soil, soil vapor or groundwater.
- To evaluate if nearby former Formerly Used Defense Sites operations have impacted the Subject Property.
- To obtain data needed to prepare a Response Action Plan (RAP) for the project, if needed.

As part of the Phase II ESA, SEH advanced eight, exterior soil borings and two hand augers within the Subject Property building to collect soil and groundwater samples. Four sub-slab soil vapor pins were also installed through the building floor slab to collect soil vapor samples.

Fill soils were encountered from the ground surface to depths ranging from 2 to 5 feet and generally consisted of silty sand with gravel, clayey sand with gravel, and silt. Native soils beneath fill soils extended to the termination depths of each of the borings. Native soils generally consisted of silt and sandy lean clay interbedded with silty sand with gravel and poorly graded sand. Groundwater was encountered in five of the eight soil borings at depths ranging from 8.5 to 9.67 feet below ground surface (bgs).

Indications of contamination, including photoionization detector (PID) readings greater than background, were not observed in the soil and groundwater samples. A slightly elevated PID reading was recorded in soil vapor sample SSV-03, which was located in the shop area of the Subject Property Building. Concentrations of volatile organic compounds (VOCs) detected in the soil vapor sample collected at this location did not exceed 33 times the Commercial/Industrial Intrusion Screening Values (ISVs) – the concentration at which vapor mitigation would be needed for the proposed project; however, the concentration of tetrachloroethene detected in SSV-03 exceeded 33 times the Residential ISV.

Based on the analytical testing results, diesel range organic- (DRO-) and polynuclear aromatic hydrocarbon- (PAH-) impacted soil was identified below the building floor slab in the shop area. Impacted soil relative to regulatory criteria was not identified outside of the building footprint at the Subject Property.

DRO and trichloroethene were detected in the groundwater sample collected from B-01W (9.67) on the north-central portion of the Subject Property, cross-gradient to the Subject Property building, at concentrations exceeding drinking water criteria.

No exceedances relative to 33 times the Commercial/Industrial ISVs were detected in sub-slab vapor samples.

# Executive Summary (continued)

## Recommendations

Based on the Phase II ESA, SEH recommends the following:

- To further evaluate if vapor intrusion is a concern for the Subject Property, a second round of soil vapor testing should be conducted in accordance with MPCA Best Management Practices during the non-heating season (i.e., from April to October).
- Prior to redevelopment of the Subject Property, the project should be enrolled in the MPCA VIC Program and the Petroleum Brownfields Program (PBP) to request the appropriate approvals and liability assurances including a Retroactive No Association Determination for the Identified Release in soil vapor and groundwater at the Subject Property (i.e., trichloroethene and tetrachloroethene). Please note because the tenant at the Subject Property likely caused or contributed to the impacts detected below the floor slab, the Duluth Airport Auth would not be eligible for a Retroactive No Association Determination for the PAH impacts to soil.
- A RAP should also be prepared and submitted for VIC Program and PBP for review and approval prior to the start of construction. The RAP will describe the proposed project, identify the various parties involved with the project, outline the procedures that will be used to manage soil and groundwater impacts that will be encountered during construction. The RAP should also include contingencies that will be implemented in the event previously unidentified conditions are encountered such as underground storage tanks, potential asbestos-containing materials or contamination that differs from that encountered during the Phase II ESA.
- During construction, environmental monitoring as outlined in the RAP should be conducted to document the field conditions and response actions that are implemented.
- Following construction, a RAP Implementation Report should be prepared and submitted to the MPCA to request approval of response actions, a No Further Action Determination and approval of response actions, as appropriate.

# List of Abbreviations

<b>Abbreviation</b>	<b>Meaning</b>
ACM	Asbestos Containing Material
amsl	Above Mean Sea Level
BaP	Benzo(a)pyrene Equivalents
bgs	Below Ground Surface
BTV	Background Threshold Value
DRO	Diesel Range Organics
EISV	Expedited Intrusion Screening Value
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
Eurofins	Eurofins Environment Testing North Central, LLC
eV	Electron Volt
FAA	Federal Aviation Administration
FUDS	Formerly Used Defense Sites
GPL	General Permit Limit
GRO	Gasoline Range Organics
HBG	Health Based Guidance
HRL	Health Risk Limit
HBV	Health Based Value
HREC	Historic Recognized Environmental Condition
ISV	Intrusion Screening Value
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MDH	Minnesota Department of Health
MGS	Minnesota Geological Survey
mg/kg	milligram per kilogram
MPCA	Minnesota Pollution Control Agency
NPDES	National Pollutant Discharge Elimination System
PAH	Polycyclic Aromatic Hydrocarbon
PBP	Petroleum Brownfields Program
PEF	Potency Equivalency Factor
PID	Photoionization Detector
ppm	parts per million
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RAA	Risk Assessment Advice
RAP	Response Action Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SEH	Short Elliott Hendrickson Inc.
SLV	MPCA Screening Soil Leaching Value
SRV	MPCA Soil Reference Value
SVOC	Semi-Volatile Organic Compound
TPH	Total Petroleum Hydrocarbons
VIC	Voluntary Investigation and Clean-up
VOC	Volatile Organic Compound
UFC	Unregulated Fill Criteria
ug/L	Micrograms per liter
USAF	United States Air Force

## List of Abbreviations (continued)

<b>Abbreviation</b>	<b>Meaning</b>
UST	Underground Storage Tank
33X	33 times

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# Phase II Environmental Site Assessment

## Site 6 - Proposed Air Traffic Control Tower

Prepared for The Duluth Airport Authority

### 1 Introduction

Short Elliott Hendrickson Inc. (SEH®) was retained by the Duluth Airport Authority to conduct a Phase II Environmental Site Assessment (ESA) of Site 6 for the proposed air traffic control tower at the Duluth International Airport. Site 6 consists of portions of Parcel ID Numbers: 010-0148-00200 (4913 Airport Road), 010-0148-00080 (4550 Stebner Road), and 010-0148-00020 and is generally located north of the intersection of Airport and Stebner Roads in Duluth, Minnesota (herein referred to as “Subject Property”). The Subject Property location is depicted on **Figure 1**. The project is described in further detail in **Section 2**.

#### 1.1 Project Description

The Duluth Airport Authority is planning to replace the existing air traffic control tower at the Duluth International Airport and is currently considering two replacement sites for the tower, one of which includes Site 6.

#### 1.2 Purpose of Investigation

This investigation was performed for the following purposes.

- To evaluate if Recognized Environmental Conditions (RECs) identified by the Phase I ESA recently completed for the Subject Property by Federal Aviation Administration (FAA) have impacted soil, soil vapor or groundwater.
- To evaluate if nearby former Formerly Used Defense Sites (FUDS) operations have impacted the Subject Property.
- To obtain data needed to prepare a Response Action Plan (RAP) for the project, if needed.

#### 1.3 Scope of Work and Limitations

The following scope of services was performed to evaluate potential impacts at the Subject Property.

- Advancement of eight soil borings (B-01 through B-08) to depths ranging between 13 and 15 feet below ground surface (bgs).
- Installation of temporary wells in five of the soil borings where groundwater was encountered (B-01, B-02, B-06, B-07, and B-08).
- Advancement of two hand auger samples inside the hydraulic shop in the building on the Subject Property in areas where oil-stained concrete was observed (HA-1 and HA-2).
- Collection and analysis of soil and groundwater samples.



- Field Screening, geological logging, and photoionization detector (PID) soil headspace screening.
- Collection of four sub-slab soil vapor samples (SSV-01 through SSV-04) below the floor slab of the Subject Property building.
- Evaluation of data and report preparation.

## 1.4 User Reliance

The Phase II ESA and all reports, verbal and written, are solely for the use of the Duluth Airport Authority. Any third party may have different interests, purposes, and motives than the Duluth Airport Authority with regard to this assessment and report. Any reliance on the Phase II by any other party shall be at such party's sole risk, unless that party has written authorization from SEH, and the Duluth Airport Authority, and is a party to the Agreement between SEH and the Duluth Airport Authority.

# 2 Subject Property Background

## 2.1 Subject Property Location and Description

The Subject Property consists of portions of Parcel ID Numbers: 010-0148-00200 (4913 Airport Road), 010-0148-00080 (4550 Stebner Road), and 010-0148-00020 and is generally located north of the intersection of Airport and Stebner Roads in Duluth, St. Louis County, Minnesota. The portion of the Subject Property located at 4913 Airport Road is developed with a single-story, slab on grade building with a shop area that is currently occupied by Hermantown Hydraulics, a hydraulics repair company. The remainder of the Subject Property is vacant, grass-covered land or includes portions of Stebner Road. The Subject Property location is shown on **Figure 1** and the Subject Property features are shown on **Figure 2**.

## 2.2 History of the Subject Property

The Duluth International Airport was dedicated in 1930 as the Williamson-Johnson Municipal Airport; it was later renamed the Duluth International Airport in 1963. Historically, the Duluth International Airport was jointly operated by the City of Duluth, the United States Air Force (USAF), and the Minnesota Air National Guard. The USAF ceased operations at the Duluth International Airport in 1982.

The Subject Property was undeveloped until the 1930s when a residential structure was visible on the aerial photographs. By the early 1950s, the USAF constructed the current Subject Property building, which was referred to as Building s100 and used as a flight simulator building (EMR, 2004).

Nearby FUDS operations included the following:

- Building 306 is located northeast and adjoining the Subject Property and was identified as the B E Laboratory and fuel oil tank building in the 2004 Site Research Report prepared by EMR Inc. for the United States Army Corps of Engineers, the lead agency evaluating FUDS (EMR, May 2004). Details regarding laboratory operations or materials used were not provided, but the laboratory operations include two fuel oil tanks of unknown capacity and construction.
- Building 305 is located east of Subject Property and was referred to as the rocket check/assembly building. Specific operations in Building 305 are not known.

- The 2004 Site Research Report also indicated a former underground storage (UST) was located north of the Subject Property.
- Hangar 101, which is part of the Lot 3 FUDS Project Area, adjoins the Subject Property to the west. Hangar 101 was constructed in the early 1950s and was used by the USAF until the early 1980s for airplane maintenance. Little documentation was found regarding material handling or usage at Hangar 101, but suspected materials included solvents and new or used fuels and oils. The report indicates a fuel oil UST was removed in the vicinity and northwest of Hangar 101 and a petroleum release as well as chlorinated solvent impacts were detected. Additional investigation of Hangar 101 and surrounding areas to the west and north have been conducted since 2007 and have identified petroleum and solvent impacted groundwater and soil vapor on the western portion of the Hangar 101 site. Groundwater flow direction in the vicinity of Hangar 101 is to the west/northwest; however, groundwater flow on the western side of the Hangar 101 site is locally influenced by stormwater drains and has a stronger westerly flow direction.

The FUDS program has not conducted investigations at Building 305, Building 306 or the former UST located north of the Subject Property.

## 2.3 Previous Environmental Investigations

### 2.3.1 October 2019 Phase I ESA

SEH conducted a Phase I ESA of the 100 Building located at 4905 Airport Road in Duluth, Minnesota on behalf of the Duluth Airport Authority in October 2019 (SEH, October 2019). At the time of the Phase I ESA, the 100 Building was occupied by Hermantown Hydraulics. According to the Phase I ESA, Hermantown Hydraulics had occupied the Subject Property since 2009. The Phase I ESA identified several closed leak sites or inactive Voluntary Investigation and Cleanup (VIC) Program sites as Historical Recognized Environmental Conditions (HRECs) for the Subject Property. Please note at the time of the 2019 Phase I ESA, information regarding the FUDS investigations was not available for review.

### 2.3.2 January 2023 Phase I ESA

Booz Allen Hamilton conducted a Phase I ESA of the Subject Property in January 2023 on behalf of the FAA (Booz Allen Hamilton, January 2023). The Phase I ESA indicates the far western portion of Subject Property was initially developed by at least 1939 through the early 1950s with a residence, which was removed as the Duluth Air Force Base was developed. The current building was constructed by at least 1961 and is currently occupied by Hermantown Hydraulics. During the site reconnaissance, multiple buckets and drums of oils and hydraulic fluid were observed in the shop area. Petroleum staining was observed on the concrete floor near the oil and hydraulic fluid and was observed to be wicking into the foundation.

The Phase I ESA identified the following RECs for the Subject Property including:

- *Based on the age of the facility and operations observed during the site reconnaissance, this staining and potential impact to soils below the building is believed to present a Recognized Environmental Condition (REC) for the subject property.*
- *Based on its current regulatory status as an active remediation site, the former U.S. AFB Duluth is believed to present a REC for the subject property.*

The Phase I ESA identified two adjoining properties with closed regulatory statuses, Duluth International Airport – Site #102 and Duluth International Airport – Block 5, as HRECs.

## 2.4 Regional Physical Setting

The Subject Property is generally flat on the United States Geological Survey (USGS) 7.5-minute *Duluth Heights, MN* topographic map (USGS, 2019). The Subject Property has an elevation of approximately 1,420 feet above mean sea level (amsl). (DNR, 2022). Topography is depicted on **Figure 1**.

### 2.4.1 Regional Geology

Published geology indicates surficial deposits in the vicinity of the Subject Property consist of glacial lake deposits of the Cromwell Formation of the Wrenshall Member of the Michigan Sub-episode and consist of brown silt and clay with minor sand (MGS, 2019).

The uppermost bedrock unit is the Gabbroic zone of the Duluth Complex at approximately 1320 to 1370 feet above amsl or around 50 to 100 feet bgs. The Gabbroic zone of the Duluth Complex is described as medium-grained, intergranular, foliated and locally layered olivine oxide gabbro. The Gabbroic zone of the Duluth Complex ranges from 2,300 to 5,000 feet thick (MGS, 2008).

### 2.4.2 Regional Hydrogeology

Based on previous investigations conducted at the airport, shallow groundwater flow direction in the vicinity of Subject Property is to the west/northwest; however, groundwater flow on the western side of the Hangar 101 site is locally influenced by stormwater drains and has a stronger westerly flow direction.

Groundwater depths were observed and measured during the Phase II ESA. Groundwater was measured between 8.5 and 9.67 feet bgs. Depths to groundwater are recorded on boring logs (**Appendix A**).

## 3 Overview of the Phase II ESA

The following sections describe the scope and goals of the Phase II ESA. Also included is methodology, quality assurance/quality control information and regulatory/guidance levels. The Phase II Investigation area is depicted on **Figure 2**. Results of the Phase II ESA are discussed in **Section 4**. Completed borings, field screening results, and soil and groundwater sample locations and results are captured on attached figures and tables.

### 3.1 Field Investigation and Sampling Methods

Field work for the Phase II ESA was completed between February 27 and March 7, 2023 and included collection of soil, soil vapor and groundwater samples for field screening and chemical analyses. Soil borings were completed by Range Environmental. Laboratory analyses was completed by Eurofins Environment Testing North Central, LLC (Eurofins).

#### 3.1.1 Soil Sampling

Soil samples were collected from hand auger borings advanced below the floor slab of the shop area of the Subject Property building using hand equipment, which was decontaminated between boring location. Prior to advancing the hand auger borings, a concrete core was advanced through the floor slab and was replaced and sealed in place following sampling.

Soil samples were also collected from soil borings advanced using push-probe drilling techniques using a five-foot long macro-core sampler with an acetate liner that was advanced at continuous intervals to the bottom of the soil boring.

Lubricants or solvents with petroleum products or hazardous substances were not used for downhole drilling or on sampling equipment. Each borehole was properly abandoned in accordance with local regulations. The location of each borehole is depicted on **Figure 2**.

Soil samples were collected for field screening from each boring by placing soil into a new, clean, quart-size, labeled, resealable bag. The bags used for field screening were used for one sample only. Soil clumps were manually agitated and the bags were shaken vigorously at the beginning and end of the headspace development period. The bags were placed in a warm location. Weather conditions at the time of the investigation were sunny and clear.

PID headspace readings were collected in general accordance with Minnesota Pollution Control Agency (MPCA) guidelines. A MiniRae PID with a 10.6 electron volt (eV) bulb calibrated to isobutylene was inserted through a small opening in the bag and the highest reading was recorded. Empty bag readings were recorded periodically throughout the investigation and are considered “background.” The results of the headspace readings are summarized on **Table 1** and on boring logs in **Appendix A**.

A portion of each sample was reserved for description in the field in general conformance with ASTM D 2488-17 (ASTM, 2017).

The SEH scientist wore a new clean pair of disposable Nitrile<sup>®</sup> gloves while collecting each sample. Soil samples from select intervals were placed into the appropriate jars for laboratory analyses and preserved, as appropriate. Sample containers were placed in coolers with ice and were protected from sunlight. Samples were transported to Eurofins within 48 hours of their collection with proper chain-of-custody documentation.

Analytical samples collected were labeled corresponding to the boring number from which they were collected (for example B-01 or HA-01). Additionally, soil samples were labeled for the depth from which they were collected. For example, a sample collected from a depth of five to six feet bgs in B-01 is labeled B-01 (5-6).

### 3.1.2 Groundwater Sampling

Groundwater samples were collected from soil borings where groundwater was encountered through new polyvinyl chloride (PVC) well screen with polyethylene tubing and a check ball valve. The SEH scientist wore a new clean pair of disposable Nitrile<sup>®</sup> gloves while collecting each groundwater sample. The groundwater samples were placed in the appropriate laboratory containers in accordance with the laboratory’s specifications and preserved. The sample containers were placed in a cooler with ice and protected from sunlight. The samples were then transported to Eurofins within 48 hours of their collection with proper chain-of-custody documentation.

Samples collected were labeled corresponding to the boring number from which they were collected (for example B-01) followed by the letter “w”. Additionally, groundwater samples were labeled with the water level measured after drilling (in feet bgs) to groundwater. For example, for a sample collected from B-01 and a water level measured during drilling of 9.67 feet bgs, the sample is labeled B-01w (9.67).

### 3.1.3 Sub-Slab Soil Vapor Sampling

Sub-slab soil vapor samples were collected from Cox-Colvin vapor pins, which were installed through the concrete floor slab of the Subject Property building. Each vapor pin was equipped with a self-sealing silicone sleeve. The number of soil vapor samples collected followed MPCA Best Management Practices regarding the recommended samples for a building measuring 2,501 to 5,000 square feet (MPCA, April 2020). Sample locations are shown in **Exhibit 2**.

Using a section of PVC pipe and non-VOC containing putty, a water dam was constructed around the vapor pins to evaluate potential short-circuiting/leakage between the sub-slab and ambient air. The water dam was filled with distilled water and water levels were monitored during shut-in testing, sample train purging and sample collection. If water levels dropped, the water dam was checked, and if required, the vapor pin was removed and re-installed.

To collect the samples, a sampling train was constructed with new, inert materials. A shut-in test was then performed to detect leaks in the connections in the sampling train (i.e., sample tubing, valves and moisture filter). To conduct the shut-in test, the valve leading to the sampling pin was closed, and air was drawn out of the sampling train until a vacuum of about 25 inches of mercury was read on the canister gauge. The gauge was then monitored for a minimum of 60 seconds to ensure pressure in sampling train remains consistent. If pressure was lost, fittings were checked and re-established before performing an additional shut-in test.

A minimum of two air volumes was evacuated from the sampling pin and tubing prior to sampling. Each of the soil vapor samples were collected using a batch-certified, 1-liter air sampling canister equipped with a valve and a 200 milliliter per minute flow controller with tubing assembly. To collect the sample, the valve on the canister was opened. The initial vacuum reading, as well as the initial time, were recorded in the field notes and on the chain-of-custody. The vacuum gauge was observed until it read approximately 5 inches of mercury, at which point the canister valve was closed and the time and final vacuum reading were recorded in the field notes and on the chain-of-custody. After the canister valve was closed, a PID with a 10.6 eV lamp was connected to the tubing and organic measurements were recorded for about 1 minute.

The soil vapor samples were then transported to the laboratory with proper chain-of-custody documentation.

### 3.1.4 Chemical Analytical Methodologies

Soil sample analytes included:

- Diesel range organics (DRO - Wisconsin Method DRO)
- Gasoline Range Organics (GRO – Wisconsin Method GRO)
- Volatile organic compounds (VOCs - United States Environmental Protection Agency [EPA] Method 8260B)
- Polycyclic Aromatic Hydrocarbons (PAHs - (EPA Method 8270D by SIM)
- Resource Conservation and Recovery Act (RCRA) 8 Metals (EPA Methods 7471A/6010B)

Groundwater sample analytes included:

- DRO (Wisconsin Method DRO)
- GRO (Wisconsin Method GRO)

- VOCs (EPA Method 8260)

Soil vapor analytes included:

- VOCs (EPA Method TO-15)

## 3.2 Notes on Analytical Methods

The following descriptions provide background information and terminology for DRO, GRO, and benzo(a)pyrene (BaP) equivalents. Also included is a discussion of common laboratory contaminants under VOC and Semi-Volatile Organic Compounds (SVOC) analyses of which PAH analyses is a sub-set.

### 3.2.1 DRO

The Wisconsin DRO Method is designed to measure mid-range petroleum products such as diesel or fuel oil. This method provides gas chromatographic conditions for the detection of semi-volatile petroleum fractions such as diesel, fuel oil #2, or kerosene. DRO analysis includes hydrocarbons within the range of C10 – C28 and a boiling point range between approximately 170°C and 430°C. Quantitation is based on a direct comparison of the total area within this range to the total area of the Diesel Component Standard. As defined in the method, other organic compounds, including chlorinated hydrocarbons, phenols, phthalate esters, PAHs, kerosene, fuel oils and heavier oils are measurable within the range of C10 – C28. DRO results may include these compounds/products. Components greater than C28 present in products such as motor oils or lubricating oils are detectable under the conditions of the method (Wisconsin DNR, September 1995).

### 3.2.2 GRO

The Wisconsin GRO Method is designed to measure the concentration of GRO in water and soil. GRO analysis includes hydrocarbon within the range of C6 – C10 and a boiling point range between approximately 60°C and 220°C. All the chromatographic response falling between the onset of the methyl-tertiary-butyl ether peak and the conclusion of the naphthalene peak is measured with the GRO window. Quantitation is based on a direct comparison of the total area within this range to the total area of the Gasoline Component Standard.

As defined in the method, other organic compounds including chlorinated solvents, ketones, ethers, mineral spirits, Stoddard solvents, and naphthas are measurable within the range of C6 – C10. High levels of heavier petroleum products such as diesel fuel may contain some volatile components producing a response within the retention time range for GRO. As defined in the method, results for GRO include petroleum fractions such as gasoline, Stoddard solvent, or mineral spirits as well as other measurable organic compounds such as chlorinated solvents, ketones, and ethers (Wisconsin DNR, September 1995 [a]).

### 3.2.3 BaP Equivalents

The MPCA uses Potency Equivalency Factors (PEFs) to evaluate toxicity and to assess risks of carcinogenic PAHs. A PEF is a relative estimate of toxicity of chemical compared to a reference chemical. BaP was chosen as a reference chemical for carcinogenic PAHs because its toxicity is well characterized. A table developed by the MPCA used to calculate BaP equivalents is used in this report. Per MPCA recommendation, “zero” is used for non-detected analytes in the BaP calculation (MPCA, April 2022).

### 3.2.4 Common Laboratory Contaminants

In the process of having samples prepared and tested in a laboratory, contaminants may be introduced in the process resulting in false positive results for select organic compounds (EPA, November 2020). These compounds may be introduced into the sample by several different means including, but not limited to, laboratory cleaning methods and sample preparation procedures. If detected in samples, these compounds should be compared to corresponding blank sample results to ensure that the compound detected is a valid detection.

## 3.3 Quality Assurance/Quality Control

Eurofins is a Minnesota-certified laboratory and has a current Quality Assurance/Quality Control (QA/QC) manual on file with the Minnesota Department of Health (MDH) and the MPCA. A Case Narrative is attached near the beginning of each laboratory report (**Appendix B**). The QA/QC report includes:

- General information
- Hold time
- Sample preparation
- Initial calibrations
- Continuing calibrations
- Surrogates
- Method blanks
- Laboratory control spikes
- Matrix spikes
- Duplicate samples
- Additional comments

Samples were received in acceptable condition with the following exceptions:

- Trip blanks associated with the soil and groundwater samples collected from soil borings B-01 through B-08 were broken in transport and could not be analyzed.
- VOC and GRO aliquots for the groundwater samples were collected in appropriately preserved sampling vials; however, pH was outside of the required criteria upon receipt. The higher pH is possibly due to sediment in the sample, which can buffer the acid preservative. The samples were analyzed within the 7-day holding time for unpreserved samples; therefore, sample results are considered usable.
- Headspace was observed in the container for VOC analyses for sample B-02W (8.50) and in the containers for GRO analyses in samples B-02W (8.50) and B-08W (9.00) and may have been caused by effervescent between the acid preservative and sediment in the sample; therefore, sample results may be biased low.

Samples were analyzed within the method required holding times.

The following observations are provided regarding the analytical results:



- Surrogate recovery for the PAH aliquot for sample HA-1 (1.5-2) was greater than the percent recovery limits and indications of matrix interference were observed; therefore, PAH results for sample HA-1 (1.5-2) may be biased high.
- The concentrations of analytes detected in the soil vapor samples at concentrations above the method detection limit but below the method reporting limit are considered estimates and are qualified with a “J”.
- Several analytes were detected in the method blank associated with the soil vapor samples. The concentrations of VOCs detected in the method blank were above the method detection limit but below the method reporting limit. The concentrations of VOCs detected in the investigative samples, which were also detected in the method blank, were at least two times higher than those detected in the blank. Concentrations of VOCs detected in the investigative samples, which were also detected in the blank, may be biased high; however, detected concentrations of VOCs were well below regulatory criteria and the data is considered usable.

Eurofins reviewed the data packages for the samples for quality and completeness and approved the data for review.

## 3.4 Regulatory and Guidance Levels

To evaluate the magnitude of impacts, MPCA, MDH, and EPA regulatory levels and guidelines, where established, are compared to analytical results for detected chemicals.

### 3.4.1 Soil

Soil results are compared to MPCA Residential/Recreational Soil Reference Values (SRVs), Industrial/Commercial SRVs, Screening Soil Leaching Values (SLVs), and MPCA unregulated fill criteria (UFC).

#### 3.4.1.1 Soil Reference Values

Revised Residential/Recreational and Commercial/Industrial SRVs were published by the MPCA in March 2023 and are incorporated into this report (MPCA, March 2023). The MPCA SRVs are intended to be risk-based screening values and were derived using methodology from the EPA’s Superfund Program, exposure parameters based on land use categories, contaminants toxicity values, and a contaminant’s chemical-specific parameters.

#### 3.4.1.2 Screening Soil Leaching Values

The MPCA has established SLVs that provide a conservative estimate of whether groundwater contaminant concentrations could result from leaching to groundwater from contaminated soils in direct contact with groundwater. The current Screening SLVs were established in 2013 (as discussed in MPCA Guidance Document c-r1-04 [MPCA, May 2013]) and are referenced in the MPCA Guidance Document c-rem1-01, Best Management Practices for the Off-Site Reuse of Unregulated Fill (MPCA, February 2012).

#### 3.4.1.3 MPCA Unregulated Fill Criteria

The MPCA has defined limits for DRO and GRO of 100 milligrams per kilogram (mg/kg) in soil in MPCA Guidance Document c-rem1-01, Best Management Practices for the Off-Site Reuse of Unregulated Fill (MPCA, February 2012). The guidance document defines soil that meets these



limits, is free from solid waste, debris, asbestos-containing material (ACM), visual staining and odors, and has organic vapors less than 10 parts per million (ppm) (measured using a PID) is considered unregulated fill. ACM is material containing greater than 1% asbestos, as defined in Minnesota Statutes, Section 326.71, Subdivision 3. To assess the potential for unregulated off-site use of excess excavated material from the project, Phase II ESA results are evaluated using this guidance.

### 3.4.1.4 Notes on Regulatory Levels for Metals in Soil

In some cases, naturally occurring metals in soil are present and often exceed the action levels set in the MPCA Screening SLVs, Residential/Recreational SRVs and/or Commercial/Industrial SRVs.

The following table summarizes the generalized naturally occurring levels of metals in soil as defined by the EPA and MGS in mg/kg or ppm in comparison the MPCA Screening SLVs and current SRVs. The common range and average values reported by the EPA Office of Solid Waste and Emergency Response, *Hazardous Waste and Land Treatment* (EPA, April 1983). The EPA values summarized below are generalized ranges throughout the United States. Variations occur across soil types and parent material (EPA, April 1983).

The MGS more recently released a study titled *Minnesota Soil, Till, and Ground-Water Geochemical Data* (MGS, 2009). This study assembled three geochemical data sets for soil and groundwater as a basis for an atlas that provides an overview of geochemical patterns, and a reference that places more thorough environmental geochemical surveys into a context. Data contributed were derived from soil, soil parent material, and well water samples.

The MPCA has also published a *Background Threshold Values (BTV) Evaluation* (MPCA, April 2021). The 2021 BTVs are depicted below. Soil and/or groundwater geochemistry data in the vicinity of the project corridor, where applicable, are compared to analytical results in **Section 4**.

Analyte	Common Range (EPA)	Average (EPA)	2021 MPCA BTV	Parent Material (2009 MGS)	Soil (2009 MGS)	2023 MPCA Res/Rec SRVs	2023 MPCA Com/Ind SRV	MPCA Screening SLVs
Arsenic	1-50	10	9	1.7-26	0.3-85	9	9	5.8
Barium	100-3000	430	210	250-690	125-852	260	41000	1700
Cadmium	0.01-0.7	0.06	-	0.03-1.13	1-2	1.6	23	8.8
Chromium	1-1000	100	27	18-183	4.5-458	2.3 / 23000*	62 / 10000*	36 / 1000000000*
Lead	2-200	10	-	5.7-86.7	2-84	200	460	2700
Mercury	0.01-0.3	0.03	-	2-8.9	0.01-0.2	2.7	3.1	3.3

All units reported in mg/kg or ppm

\*Total Chromium does not have an established MPCA regulatory limit. Chromium III and VI SRVs are depicted.

^Total Chromium value depicted except for MPCA SLVs and 2021 MPCA SRVs.

The MPCA BTV Evaluation was established using only soil samples from the upper 0 to 2 inches from the surface as their determination was that likeliness of exposure is the greatest near the surface. The MPCA BTV Evaluation states site specific BTVs should be established if an

exposure concern is at depths deeper than 2 inches. Specific to arsenic, concentrations varied across the state and higher concentrations were present generally in the southern portion of the state. The evaluation concludes that “a reasonable statewide default BTV for arsenic is 9 mg/kg”. The MPCA defined Residential/Recreational SRV and Commercial/Industrial SRV for arsenic at 9 mg/kg. The MPCA also previously defined the SLV for arsenic at 5.8 mg/kg.

### 3.4.2 Groundwater

Groundwater results are compared to MDH Health Based Guidance (HBGs) that have been established to evaluate drinking water. These values include Health Risk Limits (HRLs), Health Based Values (HBVs), and Risk Assessment Advice (RAA) levels. The MDH developed guidance (published in November 2018) for petroleum contaminated drinking water wells which supersedes guidance of total petroleum hydrocarbons (TPH) criteria developed in 2000. Petroleum products contain many chemicals and drinking water criteria are available for only a small fraction of them. This guidance provides a margin of safety in situations where drinking water is contaminated with petroleum residuals that do not exceed individual chemical criteria. The MDH recommends a RAA of 50 micrograms per liter (ug/L) TPH which is based on a pyrene surrogate. The MDH guidance indicates that the DRO and GRO values should be added and other volatile petroleum concentrations should be subtracted from the cumulative total. For the purpose of this Phase II Environmental Investigation, these values are used as a proxy for evaluating the chemicals detected in groundwater. A simplified approach of using 50 ug/L as the MDH HBG for DRO and GRO without the calculation and subtraction is being utilized. It should also be noted that reporting limits for this project are greater than 50 ug/L for DRO and GRO (MDH, November 2018).

The National Pollutant Discharge Elimination System (NPDES) general permit (MNG790000) identifies discharge limits for contaminated groundwater discharges. The general permit regulates the discharge of groundwater extracted at cleanup and redevelopment sites. This includes discharges which have been contaminated by past or present activities, from both known and unknown sources of contamination. General Permit Limits (GPLs) are used in this report as a comparison for groundwater contaminant concentrations.

The EPA Maximum Contaminant Level (MCL) is defined as the highest level of a contaminant that is allowed in drinking water. Additionally, the level of a contaminant in drinking water in which there is no known or expected risk to health is known as Maximum Contaminant Level Goal (MCLG). MCLs are set as close to MCLGs as feasible considering variables such as available treatment and cost. MCLGs allow for a margin of safety and are non-enforceable public health goals while MCLs are enforceable standards.

The MDH HBGs, NPDES GPLs, and EPA MCL are used as a proxy for evaluating the chemicals detected in groundwater; however, for construction purposes the treatment limits for groundwater dewatering discharge would be established in the individually issued discharge permit for the project. Results for this project are compared to both MDH HBGs and NPDES GPLs on **Table 3**.

### 3.4.3 Soil Vapor

Soil vapor results were compared to the Intrusion Screening Values (ISVs). The ISVs were developed by the MPCA in coordination with the MDH to be used as screening values in evaluating risks posed by the volatile compounds in indoor air (MPCA, January 2021). The potential for indoor air to be impacted by soil vapor intrusion can also be assessed using the ISVs. Per MPCA guidance, soil vapor results should be compared to 33 times (33X) the ISVs to

assess vapor intrusion risk when a competent floor is present (MPCA, January 2021 [a]). Soil vapor concentrations greater than 33x the ISV indicate a higher potential for risk associated with vapor intrusion, and a site with contaminants greater than 33x the ISV could require mitigation of soil vapor to limit the potential for vapors to enter the building. For certain compounds, the MPCA has also established Expedited ISVs (EISVs), and in the event contaminant concentrations exceed 33x the EISV or in the event concentrations of trichloroethene exceed 33x the ISV and a pregnant woman is present, expedited action (i.e., within 30 days of receipt of laboratory data) may be necessary.

### 3.4.4 Regulatory Levels vs. Laboratory Reporting Limits

Tables of analytical results attached to this report include only detected parameters. In some cases, laboratory reporting limits are greater than the regulatory limits. If a parameter is not detected above the reporting limit in any sample, the parameter is not included on the attached tables. In most cases, the elevated reporting limit is due to sample dilution (required by high level of target, non-target analytes or matrix interferences) so the reporting limits exceed regulatory levels for other parameters.

## 4 Phase II Investigation Results

As part of the Phase II ESA, SEH advanced eight, exterior soil borings to depths ranging from 13 to 15 feet bgs to collect soil and groundwater samples. Two hand auger borings were also advanced to 2 feet bgs to collect soil samples from below the floor slab in the shop area. In addition, four sub-slab soil vapor samples were collected by installing vapor pins through the building floor slab. **Figure 2** depicts boring and sample locations. **Figure 3** summarizes the soil, soil vapor and groundwater data. A summary of the boring depths, soil types, sampling intervals and results is provided on **Table 1**. PID soil headspace readings and other field indications of contamination are summarized on **Table 2**. Detected soil and groundwater sample analytical results are summarized on **Table 3** and **Table 4**, respectively. Soil vapor results are summarized on **Table 5**. Boring logs and laboratory reports are included as **Appendix A** and **Appendix B**, respectively.

### 4.1 Geologic, Hydrogeologic, and Field Screening Results

Fill soils were encountered from the ground surface to depths ranging from 2 to 5 feet and generally consisted of silty sand with gravel, clayey sand with gravel, and silt. Native soils beneath fill soils extended to the termination depths of each of the borings. Native soils generally consisted of silt and sandy lean clay interbedded with poorly graded sand and silty sand.

PID headspace readings were recorded between 0.0 to 1.9 ppm, within background levels. No visual or olfactory indications of contamination in the soil samples were observed.

PID readings in sub-slab soil vapor samples were generally within background levels with the exception of one PID reading of 8.6 ppm detected at sample locations SSV-03, which was located in the shop area of the Subject Property Building. Concentrations of VOCs detected in the soil vapor sample collected at this location did not exceed 33x the Commercial/Industrial ISVs – the concentration at which vapor mitigation would be needed for the proposed project; however, the concentration of tetrachloroethene detected in SSV-03 exceeded 33 times the Residential ISV. PID soil headspace readings are summarized on **Table 1** and **Table 2**.

Groundwater was encountered in five of the eight borings with depths to groundwater ranging from 8.5 to 9.67 feet bgs. Depths to groundwater are recorded on boring logs (**Appendix A**). No visual or olfactory indications of contamination in groundwater were observed.

## 4.2 Results of Subsurface Investigation

### 4.2.1 Soil Analytical Results

Eight soil borings (B-01 through B-08) and two hand augers (HA-1 and HA-2) were completed throughout the project area and ten soil samples were collected for chemical analyses. In soil borings, one soil sample for chemical analyses was collected from the upper six feet with sampling intervals targeted to zones where indications of contamination were observed, if applicable, to evaluate potential impacts in soil that will likely be excavated during redevelopment. Hand auger samples were collected from the base depth of the hand auger.

DRO was detected in HA-1 (1.5-2) at 570 mg/kg, exceeding the UFC of 100 mg/kg. BaP in HA-1 (1.5-2) was detected at 12.1 mg/kg, exceeding the Screening SLV.

The BaP equivalents in HA-1 (1.5-2) were detected at 17.32 mg/kg, exceeding the Residential/Recreational SRV and Screening SLV.

With the exception of chromium, metals, PAHs, and VOCs were detected in samples at levels below regulatory criteria. GRO was not detected at concentrations greater than the reporting limits.

Total chromium exceeded the Residential/Recreational SRV for hexavalent chromium (2.3 mg/kg) and/or the Screening SLV for hexavalent chromium (36 mg/kg) but not the Residential/Recreational SRV for trivalent chromium (23,000 mg/kg) or the Screening SLV for trivalent chromium (1,000,000,000). In addition, the concentration of total chromium detected (22.4 to 35.3 mg/kg) is similar to the concentration considered by MPCA to be representative of naturally occurring conditions (27 mg/kg). Hexavalent chromium is not naturally occurring and is associated with specific industrial sources, which are not associated with the Subject Property. Because it is unlikely that any, much less all, of the chromium in the sample is hexavalent chromium, the chromium detected is not attributable to a release and is not considered a contaminant of concern for the Subject Property.

### 4.2.2 Groundwater Analytical Results

Five groundwater samples (B-01W (9.67), B-02W (8.50), B-06W (8.75), B-07W (9.10), and B-08W (9.00)) were collected from the borings to evaluate groundwater conditions across the Subject Property.

DRO was detected at 442 ug/L in B-01W (9.67), exceeding the MDH HBG and NPDES GPL. DRO was also detected at lower concentrations in B-02W (8.50) (109 ug/L), B-07W (9.10) (155 ug/L), and B-08W (9.00) (198 ug/L) at levels exceeding the MDH HBG but below the NPDES GPL. Trichloroethene was detected in B-01W (9.67) at 5.62 ug/L, exceeding the EPA MCL and the MDH HBG.

### 4.2.3 Soil Vapor Analytical Results

Four sub-slab vapor samples were collected inside the building on the Subject Property (SSV-01 through SSV-04).

No exceedances relative to 33 times the Commercial/Industrial ISVs were detected in sub-slab vapor samples.

## 5 Conclusions and Recommendations

Short Elliott Hendrickson Inc. (SEH®) was retained by the Duluth Airport Authority to conduct a Phase II ESA of Site 6 for the proposed air traffic control tower at the Duluth International Airport. Site 6 consists of portions of Parcel ID Numbers: 010-0148-00200 (4913 Airport Road), 010-0148-00080 (4550 Stebner Road), and 010-0148-00020 and is generally located north of the intersection of Airport and Stebner Roads in Duluth, Minnesota.

This investigation was performed for the following purposes.

- To evaluate if RECs identified by the Phase I ESA recently completed for the Subject Property by FAA have impacted soil, soil vapor or groundwater.
- To evaluate if nearby former FUDS operations have impacted the Subject Property.
- To obtain data needed to prepare a RAP for the project, if needed.

As part of the Phase II ESA, SEH advanced eight, exterior soil borings and two hand augers within the Subject Property building to collect soil and groundwater samples. Four sub-slab soil vapor pins were also installed through the building floor slab to collect soil vapor samples.

Fill soils were encountered from the ground surface to depths ranging from 2 to 5 feet and generally consisted of silty sand with gravel, clayey sand with gravel, and silt. Native soils beneath fill soils extended to the termination depths of each of the borings. Native soils generally consisted of silt and sandy lean clay interbedded with silty sand with gravel and poorly graded sand. Groundwater was encountered in five of the eight soil borings at depths ranging from 8.5 to 9.67 feet bgs.

Indications of contamination, including PID readings greater than background, were not observed in the soil and groundwater samples. A slightly elevated PID reading was recorded in soil vapor sample SSV-03, which was located in the shop area of the Subject Property Building. Concentrations of VOCs detected in the soil vapor sample collected at this location did not exceed 33x the Commercial/Industrial ISVs – the concentration at which vapor mitigation would be needed for the proposed project; however, the concentration of tetrachloroethene detected in SSV-03 exceeded 33 times the Residential ISV.

Based on the analytical testing results, DRO- and PAH-impacted soil was identified below the building floor slab in the shop area. Impacted soil relative to regulatory criteria was not identified outside of the building footprint at the Subject Property.

DRO and trichloroethene were detected in the groundwater sample collected from B-01W (9.67) on the north-central portion of the Subject Property, cross-gradient to the Subject Property building, at concentrations exceeding drinking water criteria. Lower concentrations of DRO (i.e., 109 to 198 ug/L), which don't necessarily indicate a release has occurred were at other locations on the subject Property.

No exceedances relative to 33 times the Commercial/Industrial ISVs were detected in sub-slab vapor samples.

## Recommendations

Based on the Phase II ESA, SEH recommends the following:

- To further evaluate if vapor intrusion is a concern for the Subject Property, a second round of soil vapor testing should be conducted in accordance with MPCA Best Management Practices during the non-heating season (i.e., from April to October).
- Prior to redevelopment of the Subject Property, the project should be enrolled in the MPCA VIC Program and the Petroleum Brownfields Program (PBP) to request the appropriate approvals and liability assurances including a Retroactive No Association Determination for the Identified Release in soil vapor and groundwater at the Subject Property (i.e., trichloroethene and tetrachloroethene). Please note because the tenant at the Subject Property likely caused or contributed to the impacts detected below the floor slab, the Duluth Airport Auth would not be eligible for a Retroactive No Association Determination for the PAH impacts to soil.
- A RAP should also be prepared and submitted for VIC Program and PBP for review and approval prior to the start of construction. The RAP will describe the proposed project, identify the various parties involved with the project, outline the procedures that will be used to manage soil and groundwater impacts that will be encountered during construction. The RAP should also include contingencies that will be implemented in the event previously unidentified conditions are encountered such as underground storage tanks, potential asbestos-containing materials or contamination that differs from that encountered during the Phase II ESA.
- During construction, environmental monitoring as outlined in the RAP should be conducted to document the field conditions and response actions that are implemented.
- Following construction, a RAP Implementation Report should be prepared and submitted to the MPCA to request approval of response actions, a No Further Action Determination and approval of response actions, as appropriate.



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# Tables

Table 1 – Sampling Location Summary

Table 2 – Photoionization Detector Field Screening Results

Table 3 – Soil Analytical Results

Table 4 – Groundwater Analytical Results

Table 5 – Soil Vapor Analytical Results

## Abbreviations and Descriptions

### Abbreviations:

BaP - Benzo(a)pyrene equivalent  
 BRL - No detections above laboratory reporting limits  
 BTEX - Benzene, toluene, ethylbenzene, and xylenes  
 DRO - Diesel Range Organics  
 EOB - End of Boring  
 EPA - Environmental Protection Agency  
 ft bgs - feet below ground surface  
 GW - groundwater  
 GP - GeoProbe boring  
 GPL - General Permit Limits  
 GRO - Gasoline Range Organics  
 HBG - Health Based Guidance  
 MDA - Minnesota Department of Agriculture  
 MDH - Minnesota Department of Health  
 SS - Surface Sample  
 SVOC - Semi-Volatile Organic Compounds  
 MPCA - Minnesota Pollution Control Agency  
 mg/kg - milligrams per kilogram  
 ug/L - micrograms per liter  
 <x - indicates analyte concentration not detected above the laboratory reporting limit

MCL - Maximum Contaminant Level  
 NC - Non Carcinogenic  
 NM - analysis not performed  
 NPDES - National Pollutant Discharge Elimination System  
 PAH - Polycyclic Aromatic Hydrocarbon  
 PCB - Polychlorinated biphenyl  
 PID - Photoionization Detector  
 ppm - parts per million  
 RCRA - Resource Conservation and Recovery Act  
 SIM - Selected Ion Monitoring  
 SLV - MPCA Screening Soil Leaching Values  
 SP - State Project  
 SRV - MPCA Soil Reference Values  
 SVOC - Semi Volatile Organic Compound  
 TCLP - Toxicity Characteristic Leaching Procedure  
 TO - Geotechnical boring  
 TP - Test Pit  
 UFC - MPCA Unregulated Fill Criteria  
 UTM - Universal Transverse Mercator  
 VOC - Volatile Organic Compounds

### Lab Report Qualifiers:

Exceeds DRO/GRO MPCA UFC	DRO/GRO Exceeds MPCA UFC
Exceeds 2013 Screening SLV	Screening SLV - MPCA Screening Soil Leaching Values
Exceeds Residential/Recreational SRV	Minnesota Pollution Control Agency (MPCA) Soil Reference Values for Residential/Recreational properties
Exceeds Commercial/Industrial SRV	MPCA Soil Reference Values for Commercial/Industrial properties
NPDES Discharge General Permit Limits	NPDES Discharge General Permit Limits MNG790000 (surface waters designated as drinking water)
Exceeds 2023 MDH HBG	MDH HBG - Minnesota Department of Health (MDH) Health Based Guidance (HBGs) for drinking water
Exceeds EPA MCLs	EPA MCLs - Environmental Protection Agency (EPA) Maximum Concentration Levels (MCLs) for drinking water
Residential 33X ISVs	Residential 33x Intrusion Screening Values (MPCA)
Residential 33X EISVs	Residential 33x Expedited Intrusion Screening Values (MPCA)
Commercial Industrial 33x ISVs	Commercial/Industrial 33x Intrusion Screening Values (MPCA)
Commercial Industrial 33x EISVs	Commercial/Industrial 33x Expedited Intrusion Screening Values (MPCA)

### Notes:

Sample ID is listed as: investigation type - identification number - depth  
 All depths are reported in feet below ground surface (bgs) and listed after the boring identification number

### Soil analytical methods include:

Diesel Range Organics by Wisconsin Method DRO  
 DRO Silica Gel Cleanup by WIDRO GCS Silica Gel  
 Gasoline Range Organics by Wisconsin Method GRO  
 Volatile Organic Compounds (VOCs) by EPA Method 8260C  
 Low-level VOCs by EPA Method 8260D  
 Mercury by EPA Method 7471B  
 Polychlorinated Biphenyls (PCBs) by EPA Method 8082A  
 MDA List 1 and 2 Pesticides by EPA Method 8270D  
 Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E by SIM  
 Resource Conservation and Recovery Act (RCRA) 8 Metals by EPA Method 7471B/6020B  
 Nitrate/Nitrite by EPA Method E353.2  
 Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270E  
 TCLP Lead by 6010D  
 Total Kjeldahl Nitrogen by EPA Method A4500-NH3 G-11  
 Minnesota Department of Agriculture (MDA) List 1 Pesticides (EPA Method 8270D)

### Groundwater analytical methods include:

DRO by Wisconsin Method DRO  
 DRO Silica Gel Cleanup by WIDRO GCS Silica Gel  
 Gasoline Range Organics by Wisconsin Method GRO  
 GRO by Wisconsin Method GRO  
 VOC by EPA Method 8260C  
 Low-level VOCs by EPA Method 8260D  
 SVOCs by EPA Method 8270E  
 PCBs by EPA Method 8082A  
 RCRA 8 Metals by EPA Method 7471/6010B (field filtered)  
 Mercury by EPA Method 7470A  
 MDA List 1 Pesticides by EPA Method 8270D

### Soil Vapor analytical methods include:

VOCs by TO-15

**Table 1**  
**Sampling Locations Summary**  
Phase II ESA  
Hangar 101  
Duluth, Minnesota

Boring ID	Total Boring Depth (ft bgs)	Field Notes (EOB=Boring Termination Depth)	Maximum PID Reading	Sample Depth(s) (ft bgs) s - soil, w - groundwater, v - vapor	Depth to Groundwater Recorded While Drilling (feet bgs)	Soil Analytical Summary (mg/kg)	Groundwater Analytical Summary (ug/L)	Vapor Analytical Summary (ug/m3)
B-01	15.0	Sandy lean clay (SC) fill to 5.0 ft bgs. Silty sand (SM) and sandy lean clay (SC) glacial till to EOB.	0.2	5-6s, 9.67w	9.67	All below MPCA UFC, SLVs, SRVs.	(9.67w) DRO - 442 > MDH HBG and NPDES GPL; 1,2,4-Trimethylbenzene - 5.62 > EPA MCL, MDH HBG, and NPDES GPL	NM
B-02	15.0	Gravelly silt (ML) fill to 5.0 ft bgs. Clayey sand with gravel (SC), gravelly silt (ML), and poorly graded sand (SP) glacial till to EOB.	0.6	3-4s, 8.50w	8.50	All below MPCA UFC, SLVs, SRVs.	(8.50w) DRO - 109 > MDH HBG	NM
B-03	15.0	Silty sand with gravel (SM) fill to 5.0 ft bgs. Clayey sand with gravel (SC) glacial till to EOB.	0.3	1.5-2.5s	Groundwater not encountered	All below MPCA UFC, SLVs, SRVs.	No groundwater sample	NM
B-04	15.0	Clayey sand with gravel (SC) fill to 2.0 ft bgs. Gravelly silt (ML), poorly graded sand (SP), and gravelly silt with sand (ML) glacial till to EOB.	1.9	2-3s	Groundwater not encountered	All below MPCA UFC, SLVs, SRVs.	No groundwater sample	NM
B-05	13.0	Silty sand with gravel (SM) fill to 5.0 ft bgs. Clayey sand with gravel (SC) glacial till to EOB.	0.2	1.5-2.5s	Groundwater not encountered	All below MPCA UFC, SLVs, SRVs.	No groundwater sample	NM
B-06	13.0	Sandy silt with gravel (ML) fill to 5.0 ft bgs. Clayey sand with gravel (SC), gravelly silt with sand (ML), and silty sand with gravel (SM) glacial till to EOB.	0.3	5-6s, 8.75w	8.75	All below MPCA UFC, SLVs, SRVs.	All below EPA MCLs, NDPES GPLs and MDH HBGs	NM
B-07	15.0	Clayey sand with gravel (SC), poorly graded sand (SP), and gravelly silt with sand (ML) fill to 5.0 ft bgs. Gravelly silt with sand (ML), clayey sand with gravel (SC), poorly graded sand with gravel (SP), and gravelly silt with sand (ML) glacial till to EOB.	0.8	2.5-3.5s, 9.10w	9.10	All below MPCA UFC, SLVs, SRVs.	(9.10w) DRO - 155 > MDH HBG	NM
B-08	14.0	Silty sand with gravel (SM) fill to 5.0 ft bgs. Clayey sand with gravel (SC) and silty sand with gravel (SM) glacial till to EOB.	0.3	3-4s, 9.00w	9.00	All below MPCA UFC, SLVs, SRVs.	(9.00w) DRO - 198 > MDH HBG	NM
HA-1	2.0	Concrete slab to 0.5 ft bgs. Poorly graded sand (SP) fill to EOB.	0.1	1.5-2s	Groundwater not encountered	(1.5-2s) DRO - 570 > UFC; BaP - 12.1 > SLV; BaP Equiv. - 17.32 > Rec. SRV	No groundwater sample	NM
HA-2	2.0	Concrete slab to 0.5 ft bgs. Poorly graded sand (SP) fill to EOB.	0.1	1.5-2s	Groundwater not encountered	All below MPCA UFC, SLVs, SRVs.	No groundwater sample	NM
SSV-01	n/a	n/a	2.5	n/a	Groundwater not encountered	NM	NM	All below Commercial/Industrial 33x ISVs
SSV-02	n/a	n/a	2.1	n/a	Groundwater not encountered	NM	NM	All below Commercial/Industrial 33x ISVs



**Table 1**  
**Sampling Locations Summary**  
Phase II ESA  
Hangar 101  
Duluth, Minnesota

Boring ID	Total Boring Depth (ft bgs)	Field Notes (EOB=Boring Termination Depth)	Maximum PID Reading	Sample Depth(s) (ft bgs) s - soil, w - groundwater, v - vapor	Depth to Groundwater Recorded While Drilling (feet bgs)	Soil Analytical Summary (mg/kg)	Groundwater Analytical Summary (ug/L)	Vapor Analytical Summary (ug/m3)
SSV-03	n/a	n/a	8.6	n/a	Groundwater not encountered	NM	NM	All below Commercial/Industrial 33x ISVs
SSV-04	n/a	n/a	3.9	n/a	Groundwater not encountered	NM	NM	All below Commercial/Industrial 33x ISVs

For a full list of table acronyms, see the glossary



**Table 2**  
**Photoionization Detector Results**  
Phase II ESA  
Hangar 101  
Duluth, Minnesota

Depth	B-01	B-02	B-03	B-04	B-05	B-06	B-07	B-08	HA-1	HA-2
0 to 2	0.1	0.6	0.2	0.1	0.1	0.1	0.1	0.0	0.1, 0.1	0.1, 0.0
2 to 4	-	0.3	-	0.4	0.2	-	0.8	0.1		
4 to 6	0.2	0.4	0.2	1.9	0.2	0.3	0.4	0.3		
6 to 8	0.2	▼ 0.1	-	0.1	0.1	▼ -	0.1	0.1		
8 to 10	▼ -	▼ 0.2	0.3	0.2	-	▼ -	▼ -	▼ -		
10 to 12	0.1	0.1	-	-	0.1	0.1	0.0	0.1		
12 to 14	-	-	-	-	-	-	0.1	-		
14 to 16	-	-	-	-						

Notes:

▼ Water table (recorded at time of drilling)

For a full list of acronyms, see the table glossary

**Table 3**  
**Soil Analytical Results**  
Phase II Environmental Site Assessment  
Hangar 101  
Duluth, Minnesota

Boring ID	Units	Screening SLV (2014)	Residential and Recreational Chronic SRV	Commercial and Industrial Chronic SRV	Push-Probe Borings								Hand Augers	
					B-01	B-02	B-03	B-04	B-05	B-06	B-07	B-08	HA-1	HA-2
Field Sample ID					B-01 (5-6)	B-02 (3-4)	B-03 (1.5-2.5)	B-04 (2-3)	B-05 (1.5-2.5)	B-06 (5-6)	B-07 (2.5-3.5)	B-08 (3-4)	HA-1 (1.5-2)	HA-2 (1.5-2)
Laboratory ID					310-250925-9	310-250925-10	310-250925-7	310-250925-8	310-250925-6	310-250925-12	310-250925-11	310-250925-13	310-250462-1	310-250462-2
Sample Date					3/6/2023	3/6/2023	3/6/2023	3/6/2023	3/6/2023	3/6/2023	3/6/2023	3/6/2023	2/27/2023	2/27/2023
<b>Diesel Range Organics (DRO) and Gasoline Range Organics (GRO)</b>														
Diesel Range Organics	mg/kg	The MPCA UFC for DRO is <100 mg/kg			<5.15	<5.94	<5.36	<6.18	<6.59	<4.60	<3.93	<5.43	570	28.5
Gasoline Range Organics	mg/kg				<11.9	<11.3	<9.68	<11.4	<12.2	<11.0	<11.4	<9.72	<10.4	<9.69
<b>Metals</b>														
Arsenic	mg/kg	5.8	9	9	2.49	3.38	3.05	2.99	2.90	2.02	1.97	2.59	2.74	2.56
Barium	mg/kg	1700	260	41000	57.2	67.5	52.3	54.2	52.6	40.6	46.6	51.6	48.3	42.1
Chromium (Total)*	mg/kg	36 / 1000000000	2.3 / 23000	62 / 100000	28.6	29.4	27	25.7	32.4	22.7	26.7	35.3	33	22.4
Lead	mg/kg	2700	200	460	5.72	11.9	7.10	5.11	6.52	5.98	5.22	4.72	6.61	4.26
Mercury	mg/kg	3.3	2.7	3.1	<0.0218	<0.0217	0.0195	<0.0194	<0.0208	<0.0203	<0.0214	<0.0196	<0.0176	<0.0193
Selenium	mg/kg	2.6	78	1200	<1.61	<1.36	<1.56	<1.37	1.50	<1.33	<1.38	<1.56	1.50	1.29
<b>Semi-VOCs</b>														
Acenaphthene	mg/kg	81	460	6800	<0.0118	<0.0573	<0.0102	<0.0111	0.0525	0.0135	<0.0107	<0.0108	3.99	0.157
Acenaphthylene	mg/kg	-	-	-	<0.0118	<0.0573	<0.0102	<0.0111	<0.0113	<0.0106	<0.0107	0.0138	<0.543	<0.0523
Anthracene	mg/kg	1300	2800	42000	<0.0118	<0.0573	<0.0102	<0.0111	0.0513	0.0194	<0.0107	0.0361	6.29	0.233
Benz(a)anthracene	mg/kg	-	-	-	<0.0118	0.116	0.0155	<0.0111	0.117	0.0536	<0.0107	0.0922	12.6	0.505
Benzo(a)pyrene	mg/kg	1.4	-	-	<0.0118	0.126	0.0155	<0.0111	0.114	0.0502	<0.0107	0.0691	12.1	0.473
Benzo(b)fluoranthene	mg/kg	-	-	-	<0.0118	0.198	0.0224	<0.0111	0.147	0.0639	0.0107	0.0876	15.7	0.618
Benzo(g,h,i)perylene	mg/kg	-	-	-	<0.0118	0.101	<0.0102	<0.0111	0.0617	0.0284	<0.0107	0.0278	7.59	0.271
Benzo(k)fluoranthene	mg/kg	-	-	-	<0.0118	0.0736	<0.0102	<0.0111	0.0476	0.0237	<0.0107	0.0289	5.71	0.251
Chrysene	mg/kg	-	-	-	<0.0118	0.147	0.0181	<0.0111	0.120	0.0570	<0.0107	0.0761	14.7	0.570
Dibenz(a,h)anthracene	mg/kg	-	-	-	<0.0118	<0.0573	<0.0102	<0.0111	0.0149	<0.0106	<0.0107	<0.0108	1.50	0.0593
Fluoranthene	mg/kg	670	210	2700	<0.0118	0.228	0.0310	<0.0111	0.264	0.0989	0.0126	0.155	36.7	1.23
Fluorene	mg/kg	110	390	5800	<0.0118	<0.0573	<0.0102	<0.0111	0.0428	<0.0106	<0.0107	0.0254	3.26	0.125
Indeno(1,2,3-cd)pyrene	mg/kg	-	-	-	<0.0118	0.120	0.0117	<0.0111	0.0732	0.0354	<0.0107	0.0395	8.06	0.305
Phenanthrene	mg/kg	-	-	-	<0.0118	0.124	0.0199	<0.0111	0.271	0.0825	<0.0107	0.165	27.7	1.01
Pyrene	mg/kg	440	220	3200	<0.0118	0.174	0.0235	<0.0111	0.204	0.0774	<0.0107	0.115	29.5	0.977
<b>BaP Equiv result</b>														
Benzo(a)pyrene Equivalents	mg/kg	1.4	2	23	0.0000	0.178	0.0206	0.0000	0.1624	0.0685	0.0011	0.0948	17.32	0.680
<b>VOCs</b>														
1,2,4-Trimethylbenzene	mg/kg	2.7	140	220	<0.138	<0.130	<0.105	0.274	<0.142	0.298	<0.125	0.205	<0.113	<0.106
Naphthalene	mg/kg	4.5	81	280	<0.345	<0.325	<0.263	<0.0111	<0.354	<0.305	<0.314	<0.271	0.968	<0.265
Toluene	mg/kg	2.5	820	820	<0.138	<0.130	<0.105	0.251	<0.142	<0.122	0.310	0.210	<0.113	<0.106
Xylene (Total)	mg/kg	5.4	260	260	<0.207	<0.195	<0.158	0.484	<0.213	0.185	<0.188	0.300	<0.169	<0.159

Notes:

\* = Total Chromium does not have establish MPCA regulatory limits. Chromium III and VI regulatory limits are depicted.

For a full list of acronyms, see the table glossary

**Table 4**  
**Groundwater Analytical Results**  
Phase II ESA  
Hangar 101  
Duluth, Minnesota

Boring ID	Units	EPA MCL 2022	2023 MDH Health Based Guidance			MPCA NPDES General Permit Limits [MNG790000, issued 2022]			B-01	B-02	B-06	B-07	B-08
Field Sample ID			Health Based Values	Health Risk Limits	Risk Assessment Advice	Land Application (non surface water discharge)	Trout/ surface waters designated as drinking water	surface waters not designated as drinking water	B-01W (9.67)	B-02W (8.50)	B-06W (8.75)	B-07W (9.10)	B-08W (9.00)
Laboratory ID									310-250925-1	310-250925-2	310-250925-4	310-250925-3	310-250925-5
Sample Date									3/6/2023	3/6/2023	3/6/2023	3/6/2023	3/6/2023
<b>DRO and GRO</b>													
Diesel Range Organics	ug/l	-	-	-	50	200	200	200	442	109	<111	155	198
Gasoline Range Organics	ug/l	-	-	-	50	200	200	200	<100	<500	<500	<100	<500
<b>VOCs</b>													
Trichloroethene	ug/l	5	-	0.4	-	0.4	5	5	5.62	<5.00	<5.00	<1.00	<5.00
All other VOCs	ug/l	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	ND	ND

Notes:

For a full list of acronyms, see the table glossary

**Table 5**  
**Soil Vapor Analytical Results**  
Phase II ESA  
Hangar 101  
Duluth, Minnesota

Field Sample ID	Units	Commercial	Commercial	SSV-01	SSV-02	SSV-03	SSV-04
Laboratory ID		Industrial	Industrial	200-67180-1	200-67180-2	200-67180-3	200-67180-4
Sample Date		33x ISVs	33x EISVs	3/7/2023	3/7/2023	3/7/2023	3/7/2023
<b>VOCs</b>							
1,2,4-Trimethylbenzene	ug/m3	7000	21000	4.5 J,B	<9.8	<9.8	<9.8
Acetone	ug/m3	3700000	1.1E+07	140	170	160	340
Benzene	ug/m3	370	1100	2.8 J,B	4.8 J,B	1.9 J,B	1.8 J,B
Cyclohexane	ug/m3	700000	2100000	15 B	4.5 J,B	230 B	13 B
Ethyl alcohol (Ethanol)	ug/m3	-	-	84 J	93	80 J	63 J
Ethylbenzene	ug/m3	1300	13000	10 B	4.8 J,B	3.0 J,B	2.9 J,B
Hexane	ug/m3	83000	250000	8.0 J	4.8 J	110	7.1 J
Isopropyl alcohol	ug/m3	-	-	68 J	43 J	1900 E	110 J
m&p-Xylene	ug/m3	12000	37000	15 J,B	14 J,B	11 J,B	10 J,B
Naphthalene	ug/m3	1100	3200	29	<26	<26	<26
n-Heptane	ug/m3	47000	140000	91 B	24 B	1400 B	81 B
o-Xylene	ug/m3	12000	37000	7.0 J,B	5.5 J,B	4.6 J,B	4.1 J,B
Tetrachloroethene	ug/m3	1100	5300	43 B	17 B	98 B	290 B
Toluene	ug/m3	470000	1400000	37 B	26 B	21 B	14 B
Trichlorofluoromethane	ug/m3	120000	370000	8.0 J,B	<11	<11	<11
All other VOCs	ug/m3	Varies	Varies	ND	ND	ND	ND

Notes:

For a full list of acronyms, see the table glossary



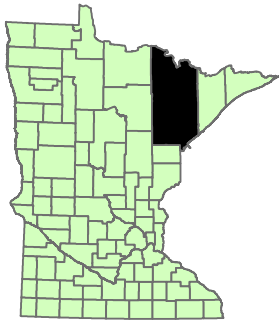
# Figures

Figure 1 – Subject Property Location

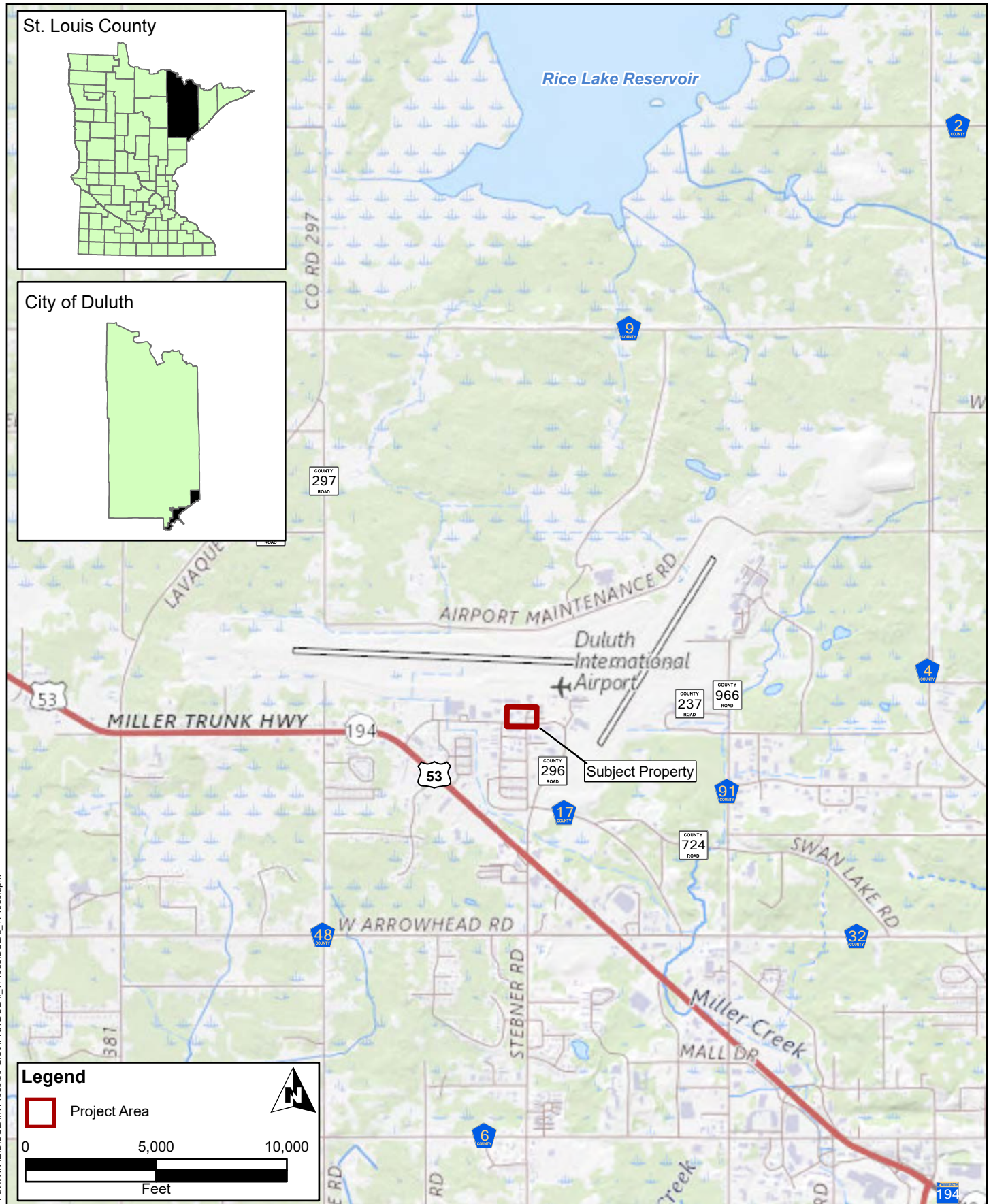
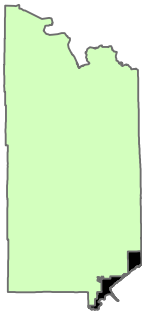
Figure 2 – Sample Locations

Figure 3 – Select Analytical Results

St. Louis County

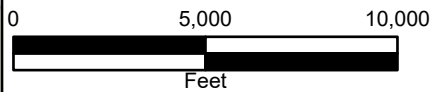


City of Duluth



**Legend**

 Project Area



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3535 VADNAIS CENTER DR.  
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www.sehinc.com

Project: DULAI 171568  
Print Date: 3/22/2023

User Name: rhawkins  
Projection: UTM NAD 83 Zone 15N  
Source: ESRI, MnDOT, SEH Digi,  
St. Louis County

**Subject Property Location**  
Phase II Environmental Site Assessment  
Site 6 - Proposed Air Traffic Control Tower  
Duluth, Minnesota

Figure  
1

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.





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**Legend**

Exterior Sampling Locations:

- ✕ Boring Location
- Building Layout

Interior Sampling Locations:

- ✕ Hand Auger Location
- Subject Property
- ▲ Sub-Slab Soil Vapor Probe
- County Parcel Boundaries

0      60      120  
 \_\_\_\_\_ Feet      N

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 Source: ESRI, MnDOT, SEH Digi,  
 St. Louis County

## Sample Locations

### Phase II Drilling Investigation

### Site 6 - Proposed Air Traffic Control Tower

### Duluth, Minnesota

Figure  
2

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**Legend**

**Exterior Sampling Locations:**

- Boring Location

**Interior Sampling Locations:**

- Hand Auger Location
- Sub-Slab Soil Vapor Probe

Building Layout  
Subject Property  
County Parcel Boundaries

**Boring (B)/Hand Auger (HA)/Sub-Slab Soil Vapor Probe (SSV)**

Termination Depth (ft)	<b>B-01</b> EOB = 10 (1.0s, 15s, 18w)	Sample Depths s - soil sample w - water sample
Sample Depth (ft)	(1.0) Diesel Range Organics - 108 (9.50) Diesel Range Organics - 208	Analytical Result (mg/kg) (ug/L) (ug/m <sup>3</sup> )
Maximum PID Measurement	Diesel Range Organics - 208 0.5 ppm	Soil description

**Soil**

- Soil parameter concentrations shown exceed Minnesota Pollution Control Agency (MPCA) unregulated fill criteria (UFC), Residential Soil Reference Values (SRVs), and Commercial/Industrial SRVs.
- Soil Results are reported in milligrams per kilogram (mg/kg).

**Groundwater**

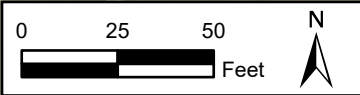
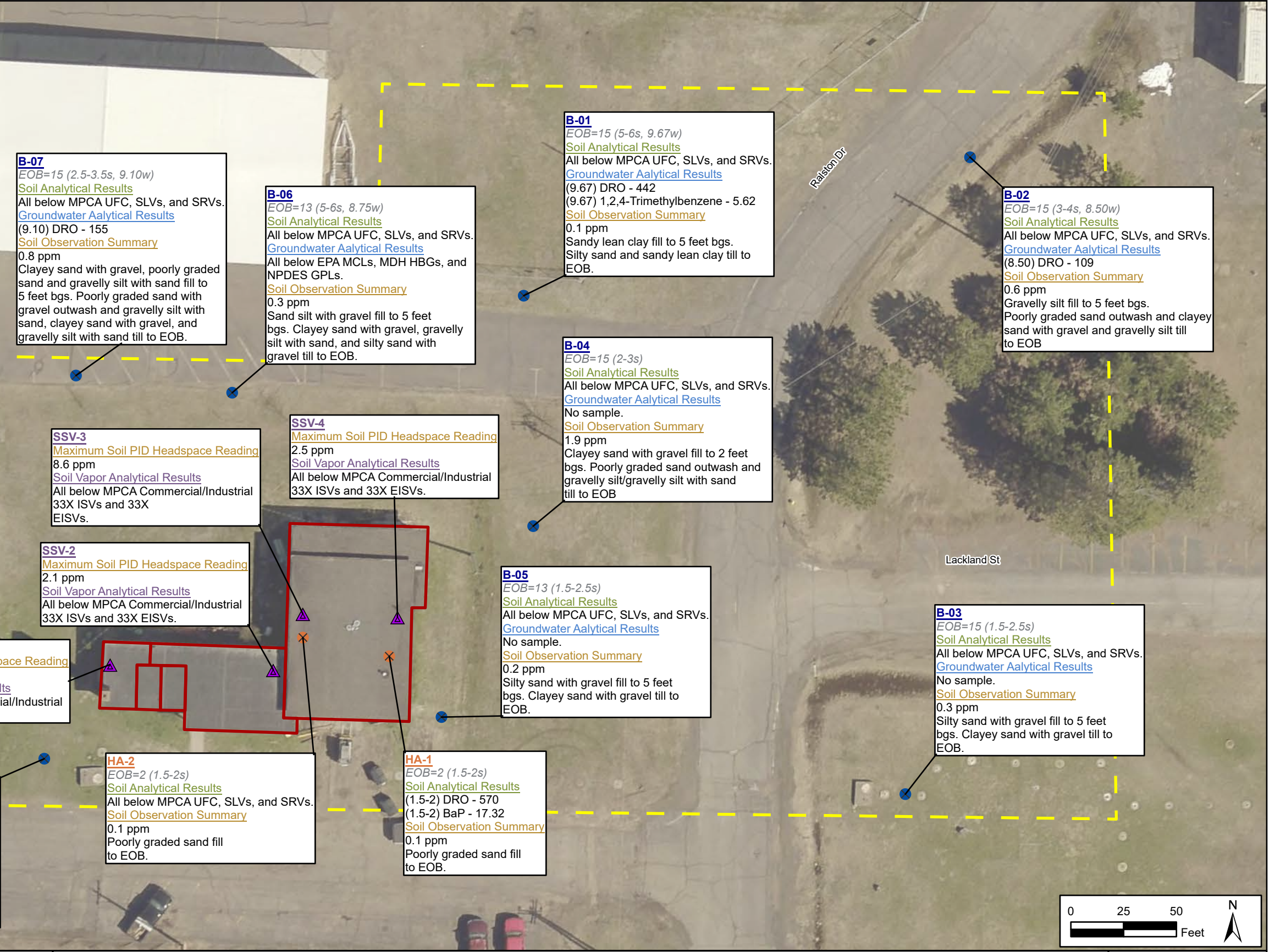
- Groundwater parameter concentrations shown exceed MDH Health Based Guidance (HBG), MPCA National Pollutant Discharge Elimination System (NPDES) General Permit Limits (GPLs), and Environmental Protection Agency (EPA Maximum Contaminant Levels (MCLs).
- Groundwater results are reported in micrograms per liter (ug/L).

**Sub-Slab Soil Vapor**

- Soil Vapor concentrations shown exceed MPCA 33x Intrusion Screening Values (33x ISVs) and 33x Expedited ISVs (EISVs).
- Soil Vapor results are reported in micrograms per cubic meter (ug/m<sup>3</sup>).

**Notes**

- Depth = Sample depth in feet below ground surface (bgs).
- EOB = End of Boring (Termination Depth of soil Boring).
- ppm = parts per million



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Projection: UTM NAD 83 Zone 15N  
Source: ESRI, MnDOT, SEH Digi,  
St. Louis County

## Select Analytical Results

### Phase II Drilling Investigation

### Site 6 - Proposed Air Traffic Control Tower

### Duluth, Minnesota

Figure  
3

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# Appendix A

Boring Logs



Short Elliott Hendrickson, Inc.  
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 St. Paul, Minnesota 55110  
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# BORING NUMBER B-01

**CLIENT** \_\_\_\_\_ **PROJECT NAME** ATCT Site 6

**PROJECT NUMBER** DULAI 171568 **PROJECT LOCATION** \_\_\_\_\_

**DATE STARTED** 3/7/23 **COMPLETED** 3/7/23 **GROUND ELEVATION (ft msl)** \_\_\_\_\_ **HOLE SIZE** \_\_\_\_\_ inches

**DRILLING CONTRACTOR** Range Environmental **GROUND WATER LEVELS:**

**DRILLING METHOD** Geoprobe **▽ AT TIME OF DRILLING** 11.00 ft

**LOGGED BY** E. Allen **CHECKED BY** J. Force **▼ AT END OF DRILLING** 9.67 ft

**NOTES** Started: 11:30, Ended: 1215 **AFTER DRILLING** ---

FINAL GENERAL BH/TP/WELL - GINT STD US LAB.GDT - 4/5/23 10:26 - X:\AE\ID\ULAI\171568\9-ENV-STDY-REGS\30-ENV-DOC\16-PHASE2\FIELD\3.6.23 DRILLINGBORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5						
5	GP	50	SC		Brown, SANDY LEAN CLAY, (SC) moist, with fine to coarse gravel, (FILL)	PID = 0.1
5.0						
10	GP	80	SM		Brown, SILTY SAND, (SM) moist, with fine to coarse gravel, (GLACIAL TILL)	PID = 0.2 PID = 0.2
11.0					▼	
11.0	GP	80	SC		Brown, SANDY LEAN CLAY, (SC) moist, with fine to coarse gravel, (GLACIAL TILL)	PID = 0.1
15						
15.0						

Bottom of borehole at 15.0 feet.





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# BORING NUMBER B-02

PAGE 1 OF 1

**CLIENT** \_\_\_\_\_ **PROJECT NAME** ATCT Site 6

**PROJECT NUMBER** DULAI 171568 **PROJECT LOCATION** \_\_\_\_\_

**DATE STARTED** 3/7/23 **COMPLETED** 3/7/23 **GROUND ELEVATION (ft msl)** \_\_\_\_\_ **HOLE SIZE** inches

**DRILLING CONTRACTOR** Range Environmental **GROUND WATER LEVELS:**

**DRILLING METHOD** Geoprobe **▽ AT TIME OF DRILLING** 10.00 ft

**LOGGED BY** E. Allen **CHECKED BY** J. Force **▼ AT END OF DRILLING** 8.50 ft

**NOTES** Started: 1215, Ended: 1300 **AFTER DRILLING** ---

FINAL GENERAL BH/TP/WELL - GINT STD US LAB.GDT - 4/5/23 10:26 - X:\A\EID\IDULAI\171568\9-ENV-STDY-REGS\30-ENV-DOC\16-PHASE2\FIELD\3.6.23 DRILLING\BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					Brown, GRAVELLY SILT, (ML) moist, (FILL)	
5	GP	80	ML			PID = 0.6
5.0						PID = 0.3
7.0	GP	80	SC		Reddish brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (GLACIAL TILL)	PID = 0.4
7.0						
8.5					Reddish brown, GRAVELLY SILT, (ML) moist, (GLACIAL TILL)	
8.5					▼	PID = 0.1
9.0					Reddish brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (GLACIAL TILL)	
10						
10					▽	
11.5	GP	80	SP		Light brown, POORLY GRADED SAND, (SP) wet, (GLACIAL TILL)	PID = 0.2
11.5						
15.0	GP	80	SC		Reddish brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (GLACIAL TILL)	PID = 0.1
15.0						

Bottom of borehole at 15.0 feet.



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# BORING NUMBER B-03

<b>CLIENT</b> _____	<b>PROJECT NAME</b> <u>ATCT Site 6</u>
<b>PROJECT NUMBER</b> <u>DULAI 171568</u>	<b>PROJECT LOCATION</b> _____
<b>DATE STARTED</b> <u>3/7/23</u> <b>COMPLETED</b> <u>3/7/23</u>	<b>GROUND ELEVATION (ft msl)</b> _____ <b>HOLE SIZE</b> <u>inches</u>
<b>DRILLING CONTRACTOR</b> <u>Range Environmental</u>	<b>GROUND WATER LEVELS:</b>
<b>DRILLING METHOD</b> <u>Geoprobe</u>	<b>AT TIME OF DRILLING</b> <u>---</u>
<b>LOGGED BY</b> <u>E. Allen</u> <b>CHECKED BY</b> <u>J. Force</u>	<b>AT END OF DRILLING</b> <u>---</u>
<b>NOTES</b> <u>Started: 945, Ended: 1030</u>	<b>AFTER DRILLING</b> <u>---</u>

FINAL GENERAL BH/TP/WELL - GINT STD US LAB.GDT - 4/5/23 10:26 - X:\AE\ID\ULAI\171568\3-ENV-STDY-REGS\30-ENV-DOC\16-PHASE2\FIELD\3.6.23\_DRILLINGBORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0					(TOPSOIL)	
0.5						
5	GP	50	SM		Brown, SILTY SAND WITH GRAVEL, (SM) moist, (FILL)	PID = 0.2
10	GP	60	SC		Reddish brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (GLACIAL TILL)	PID = 0.2
15	GP	80				PID = 0.3

Bottom of borehole at 15.0 feet.





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# BORING NUMBER B-04

<b>CLIENT</b> _____	<b>PROJECT NAME</b> <u>ATCT Site 6</u>
<b>PROJECT NUMBER</b> <u>DULAI 171568</u>	<b>PROJECT LOCATION</b> _____
<b>DATE STARTED</b> <u>3/7/23</u> <b>COMPLETED</b> <u>3/7/23</u>	<b>GROUND ELEVATION (ft msl)</b> _____ <b>HOLE SIZE</b> _____ inches
<b>DRILLING CONTRACTOR</b> <u>Range Environmental</u>	<b>GROUND WATER LEVELS:</b>
<b>DRILLING METHOD</b> <u>Geoprobe</u>	<b>AT TIME OF DRILLING</b> ---
<b>LOGGED BY</b> <u>E. Allen</u> <b>CHECKED BY</b> <u>J. Force</u>	<b>AT END OF DRILLING</b> ---
<b>NOTES</b> <u>Started: 1045, Ended: 1115</u>	<b>AFTER DRILLING</b> ---

FINAL GENERAL BH/TP/WELL - GINT STD US LAB.GDT - 4/5/23 10:26 - X:\AE\ID\ULAI\171568\3-ENV-STDY-REGS\30-ENV-DOC\16-PHASE2\FIELD\3.6.23\_DRILLINGBORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					(TOPSOIL)	
2.0	GP	70	SC		Brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (FILL)	PID = 0.1
5.0	GP	80	ML		Reddish brown, GRAVELLY SILT, (ML) moist, (GLACIAL TILL)	PID = 0.4
6.0						
7.5	GP	80	SP		Brown, POORLY GRADED SAND, (SP) moist, (GLACIAL TILL)	PID = 1.9
10.0	GP	20	ML		Brown, GRAVELLY SILT WITH SAND, (ML) moist, (GLACIAL TILL)	PID = 0.1
15.0						PID = 0.2

Bottom of borehole at 15.0 feet.



Short Elliott Hendrickson, Inc.  
 3535 Vadnias Center Drive  
 St. Paul, Minnesota 55110  
 Telephone: 651.490.2000  
 Fax: 651.490.2150

# BORING NUMBER B-05

<b>CLIENT</b> _____	<b>PROJECT NAME</b> <u>ATCT Site 6</u>
<b>PROJECT NUMBER</b> <u>DULAI 171568</u>	<b>PROJECT LOCATION</b> _____
<b>DATE STARTED</b> <u>3/7/23</u> <b>COMPLETED</b> <u>3/7/23</u>	<b>GROUND ELEVATION (ft msl)</b> _____ <b>HOLE SIZE</b> <u>inches</u>
<b>DRILLING CONTRACTOR</b> <u>Range Environmental</u>	<b>GROUND WATER LEVELS:</b>
<b>DRILLING METHOD</b> <u>Geoprobe</u>	<b>AT TIME OF DRILLING</b> <u>---</u>
<b>LOGGED BY</b> <u>E. Allen</u> <b>CHECKED BY</b> <u>J. Force</u>	<b>AT END OF DRILLING</b> <u>---</u>
<b>NOTES</b> <u>Started: 915, Ended: 945</u>	<b>AFTER DRILLING</b> <u>---</u>

FINAL GENERAL BH/TP/WELL - GINT STD US LAB.GDT - 4/5/23 10:26 - X:\AE\ID\ULAI\171568\9-ENV-STDY-REGS\30-ENV-DOC\16-PHASE2\FIELD\3.6.23\_DRILLINGBORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0					(TOPSOIL)	
0.5					Reddish brown, SILTY SAND WITH GRAVEL, (SM) moist, (FILL)	PID = 0.1
5	GP	70	SM			PID = 0.2
5.0					Reddish brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (GLACIAL TILL)	PID = 0.2
10	GP	100	SC			PID = 0.1
13.0	GP	100				PID = 0.1

Bottom of borehole at 13.0 feet.



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# BORING NUMBER B-06

**CLIENT** \_\_\_\_\_ **PROJECT NAME** ATCT Site 6

**PROJECT NUMBER** DULAI 171568 **PROJECT LOCATION** \_\_\_\_\_

**DATE STARTED** 3/7/23 **COMPLETED** 3/7/23 **GROUND ELEVATION (ft msl)** \_\_\_\_\_ **HOLE SIZE** \_\_\_\_\_ inches

**DRILLING CONTRACTOR** Range Environmental **GROUND WATER LEVELS:**

**DRILLING METHOD** Geoprobe      ▽ **AT TIME OF DRILLING** 10.00 ft

**LOGGED BY** E. Allen **CHECKED BY** J. Force      ▼ **AT END OF DRILLING** 8.75 ft

**NOTES** Started: 1330, Ended: 1415 **AFTER DRILLING** ---

FINAL GENERAL BH/TP/WELL - GINT STD US LAB.GDT - 4/5/23 10:26 - X:\AE\ID\ULAI\171568\9-ENV-STDY-REGS\30-ENV-DOC\16-PHASE2\FIELD\3.6.23\_DRILLINGBORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
5	GP	50	ML		Brown, SANDY SILT WITH GRAVEL, (ML) moist, (FILL)	PID = 0.1
10	GP	50	SC		Reddish brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (GLACIAL TILL)	PID = 0.3
11.5	GP	100	ML		Reddish brown, GRAVELLY SILT WITH SAND, (ML) wet, (GLACIAL TILL)	PID = 0.1
13.0			SM		Reddish brown, SILTY SAND WITH GRAVEL, (SM) wet, (GLACIAL TILL)	

Bottom of borehole at 13.0 feet.



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# BORING NUMBER B-07

PAGE 1 OF 1

**CLIENT** \_\_\_\_\_ **PROJECT NAME** ATCT Site 6

**PROJECT NUMBER** DULAI 171568 **PROJECT LOCATION** \_\_\_\_\_

**DATE STARTED** 3/7/23 **COMPLETED** 3/7/23 **GROUND ELEVATION (ft msl)** \_\_\_\_\_ **HOLE SIZE** \_\_\_\_\_ inches

**DRILLING CONTRACTOR** Range Environmental **GROUND WATER LEVELS:**

**DRILLING METHOD** Geoprobe **AT TIME OF DRILLING** ---

**LOGGED BY** E. Allen **CHECKED BY** J. Force **▼ AT END OF DRILLING** 9.10 ft

**NOTES** Started: 1300, Ended: 1330 **AFTER DRILLING** ---

FINAL GENERAL BH/TP/WELL - GINT STD US LAB.GDT - 4/5/23 10:26 - X:\AE\ID\ULAI\171568\9-ENV-STDY-REGS\30-ENV-DOC\16-PHASE2\FIELD\3.6.23\_DRILLINGBORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0.5					(TOPSOIL)	
1.5			SC		Brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (FILL)	PID = 0.1
2.0			SP		Brown, POORLY GRADED SAND, (SP) moist, and fine to coarse gravel, (FILL)	
	GP	70	ML		Brown, GRAVELLY SILT WITH SAND, (ML) moist, (FILL)	PID = 0.8
5.0					Brown, GRAVELLY SILT WITH SAND, (ML) moist, (GLACIAL TILL)	PID = 0.4
	GP	70	ML			PID = 0.1
10.0						
10.5			SC		Reddish brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (GLACIAL TILL)	
11.5			SP		Brown, POORLY GRADED SAND WITH GRAVEL, (SP) moist, (GLACIAL TILL)	PID = 0
	GP	100	ML		Reddish brown, GRAVELLY SILT WITH SAND, (ML) moist, (GLACIAL TILL)	PID = 0.1
15.0						

Bottom of borehole at 15.0 feet.



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# BORING NUMBER B-08

**CLIENT** \_\_\_\_\_ **PROJECT NAME** ATCT Site 6

**PROJECT NUMBER** DULAI 171568 **PROJECT LOCATION** \_\_\_\_\_

**DATE STARTED** 3/7/23 **COMPLETED** 3/7/23 **GROUND ELEVATION (ft msl)** \_\_\_\_\_ **HOLE SIZE** inches

**DRILLING CONTRACTOR** Range Environmental **GROUND WATER LEVELS:**

**DRILLING METHOD** Geoprobe **AT TIME OF DRILLING** ---

**LOGGED BY** E. Allen **CHECKED BY** J. Force **▼ AT END OF DRILLING** 9.00 ft

**NOTES** Started: 1445, Ended: 1530 **AFTER DRILLING** ---

FINAL GENERAL BH/TP/WELL - GINT STD US LAB.GDT - 4/5/23 10:26 - X:\AE\ID\DLAI\171568\3-ENV-STDY-REGS\30-ENV-DOC\16-PHASE2\FIELD\3.6.23\_DRILLINGBORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ENVIRONMENTAL DATA
0						
0 - 5	GP	100	SM		Brown, SILTY SAND WITH GRAVEL, (SM) moist, (FILL)	PID = 0 PID = 0.1
5 - 10	GP	60	SC		Reddish brown, CLAYEY SAND WITH GRAVEL, (SC) moist, (GLACIAL TILL)	PID = 0.3 PID = 0.1
10 - 14.0	GP	100	SM		Reddish brown, SILTY SAND WITH GRAVEL, (SM) moist, (GLACIAL TILL)	PID = 0.1

Bottom of borehole at 14.0 feet.

# Appendix B

Laboratory Reports



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jennifer Force  
Short Elliott Hendrickson, Inc. dba SEH  
3535 Vadnais Center Drive  
St. Paul, Minnesota 55110

Generated 3/10/2023 1:22:03 PM

## JOB DESCRIPTION

Proposed Air Traffic Control Tower - Site G  
SDG NUMBER Duluth 171568

## JOB NUMBER

310-250462-1

# Eurofins Cedar Falls

## Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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## Authorization



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# Case Narrative

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
SDG: Duluth 171568

## Job ID: 310-250462-1

### Laboratory: Eurofins Cedar Falls

#### Narrative

#### Job Narrative 310-250462-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/1/2023 9:15 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9° C.

#### GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-380301 recovered outside the control limit for 4-Methyl-2-pentanone(-22.1%D). The LCS associated with this CCV passes CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-380301/3).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-380301 recovered above the upper control limit for Vinyl chloride(26.5%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-380301/4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270E SIM: Surrogate recovery for the following samples were outside control limits: HA-1 (1.5-2) (310-250462-1), (310-250462-B-1-E MS) and (310-250462-B-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8270E SIM: The following samples were diluted due to the nature of the sample matrix: HA-1 (1.5-2) (310-250462-1), HA-2 (1.5-2) (310-250462-2), (310-250462-B-1-E MS) and (310-250462-B-1-F MSD). Elevated reporting limits (RLs) are provided.

Method 8270E SIM: Surrogate recovery for the following sample was outside control limits: HA-1 (1.5-2) (310-250462-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### GC Semi VOA

Method WI-DRO: Significant peaks, readily distinguished from background, were detected in the following sample within five minutes after the end of the analytical window defined by the last component eluting in the Diesel Range Organics (DRO) mix (i.e., n-Octacosane): HA-1 (1.5-2) (310-250462-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Sample Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
SDG: Duluth 171568

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-250462-1	HA-1 (1.5-2)	Solid	02/27/23 09:30	03/01/23 09:15
310-250462-2	HA-2 (1.5-2)	Solid	02/27/23 09:45	03/01/23 09:15
310-250462-3	Trip Blank	Solid	02/27/23 00:00	03/01/23 09:15

1

2

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15

## Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-1 (1.5-2)**

**Lab Sample ID: 310-250462-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.968		0.281		mg/Kg	1	*	8260D	Total/NA
Acenaphthene	3.99		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Anthracene	6.29	F2	0.543		mg/Kg	50	*	8270E SIM	Total/NA
Benzo(a)anthracene	12.6		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Benzo(a)pyrene	12.1		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Benzo(b)fluoranthene	15.7		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Benzo(g,h,i)perylene	7.59		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Benzo(k)fluoranthene	5.71		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Chrysene	14.7		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Dibenz(a,h)anthracene	1.50		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Fluoranthene	36.7		5.43		mg/Kg	500	*	8270E SIM	Total/NA
Fluorene	3.26		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	8.06		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Naphthalene	1.34		0.543		mg/Kg	50	*	8270E SIM	Total/NA
Phenanthrene	27.7		5.43		mg/Kg	500	*	8270E SIM	Total/NA
Pyrene	29.5		5.43		mg/Kg	500	*	8270E SIM	Total/NA
Diesel Range Organics (DRO)	570		51.9		mg/Kg	10	*	WI-DRO	Total/NA
Arsenic	2.74		0.938		mg/Kg	5	*	6020B	Total/NA
Barium	48.3		0.938		mg/Kg	5	*	6020B	Total/NA
Chromium	33.0		1.41		mg/Kg	5	*	6020B	Total/NA
Lead	6.61		2.34		mg/Kg	5	*	6020B	Total/NA
Selenium	1.50		1.41		mg/Kg	5	*	6020B	Total/NA

**Client Sample ID: HA-2 (1.5-2)**

**Lab Sample ID: 310-250462-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.157		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Anthracene	0.233		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Benzo(a)anthracene	0.505		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Benzo(a)pyrene	0.473		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.618		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.271		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.251		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Chrysene	0.570		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.0593		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Fluoranthene	1.23		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Fluorene	0.125		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.305		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Naphthalene	0.0527		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Phenanthrene	1.01		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Pyrene	0.977		0.0523		mg/Kg	5	*	8270E SIM	Total/NA
Diesel Range Organics (DRO)	28.5		5.30		mg/Kg	1	*	WI-DRO	Total/NA
Arsenic	2.56		0.807		mg/Kg	5	*	6020B	Total/NA
Barium	42.1		0.807		mg/Kg	5	*	6020B	Total/NA
Chromium	22.4		1.21		mg/Kg	5	*	6020B	Total/NA
Lead	4.26		2.02		mg/Kg	5	*	6020B	Total/NA
Selenium	1.29		1.21		mg/Kg	5	*	6020B	Total/NA

**Client Sample ID: Trip Blank**

**Lab Sample ID: 310-250462-3**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-1 (1.5-2)**

**Lab Sample ID: 310-250462-1**

Date Collected: 02/27/23 09:30

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 92.0

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.563		0.563		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Allyl chloride	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Benzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Bromobenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Bromochloromethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Bromodichloromethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Bromoform	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Bromomethane	<0.563		0.563		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
2-Butanone (MEK)	<0.844		0.844		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Carbon tetrachloride	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Chlorobenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Chlorodibromomethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Chloroethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Chloroform	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Chloromethane	<0.281		0.281		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
2-Chlorotoluene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
4-Chlorotoluene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
cis-1,2-Dichloroethene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
cis-1,3-Dichloropropene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,2-Dibromo-3-chloropropane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,2-Dibromoethane (EDB)	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Dibromomethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,2-Dichlorobenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,3-Dichlorobenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,4-Dichlorobenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Dichlorodifluoromethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,1-Dichloroethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,2-Dichloroethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,1-Dichloroethene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Dichlorofluoromethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,2-Dichloropropane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,3-Dichloropropane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
2,2-Dichloropropane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,1-Dichloropropene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Diethyl ether	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Ethylbenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Hexachlorobutadiene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Isopropylbenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Methylene chloride	<0.281		0.281		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
4-Methyl-2-pentanone (MIBK)	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Methyl tert-butyl ether	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
<b>Naphthalene</b>	<b>0.968</b>		0.281		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
n-Butylbenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
n-Propylbenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
p-Isopropyltoluene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
sec-Butylbenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
Styrene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
tert-Butylbenzene	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1
1,1,1,2-Tetrachloroethane	<0.113		0.113		mg/Kg	✱	03/02/23 06:29	03/02/23 11:24	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-1 (1.5-2)**

**Lab Sample ID: 310-250462-1**

Date Collected: 02/27/23 09:30

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 92.0

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
Tetrachloroethene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
Tetrahydrofuran	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
Toluene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
trans-1,2-Dichloroethene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
trans-1,3-Dichloropropene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
1,2,3-Trichlorobenzene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
1,2,4-Trichlorobenzene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
1,1,1-Trichloroethane	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
1,1,2-Trichloroethane	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
Trichloroethene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
Trichlorofluoromethane	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
1,2,3-Trichloropropane	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
1,1,2-Trichlorotrifluoroethane	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
1,2,4-Trimethylbenzene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
1,3,5-Trimethylbenzene	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
Vinyl chloride	<0.113		0.113		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
Xylenes, Total	<0.169		0.169		mg/Kg	☼	03/02/23 06:29	03/02/23 11:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120				03/02/23 06:29	03/02/23 11:24	1
Dibromofluoromethane (Surr)	112		80 - 120				03/02/23 06:29	03/02/23 11:24	1
Toluene-d8 (Surr)	96		80 - 120				03/02/23 06:29	03/02/23 11:24	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.99		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Acenaphthylene	<0.543		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Anthracene	6.29	F2	0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Benzo(a)anthracene	12.6		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Benzo(a)pyrene	12.1		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Benzo(b)fluoranthene	15.7		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Benzo(g,h,i)perylene	7.59		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Benzo(k)fluoranthene	5.71		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Chrysene	14.7		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Dibenz(a,h)anthracene	1.50		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Fluoranthene	36.7		5.43		mg/Kg	☼	03/06/23 13:48	03/10/23 10:20	500
Fluorene	3.26		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Indeno(1,2,3-cd)pyrene	8.06		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
2-Methylnaphthalene	<0.543		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Naphthalene	1.34		0.543		mg/Kg	☼	03/06/23 13:48	03/08/23 16:54	50
Phenanthrene	27.7		5.43		mg/Kg	☼	03/06/23 13:48	03/10/23 10:20	500
Pyrene	29.5		5.43		mg/Kg	☼	03/06/23 13:48	03/10/23 10:20	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	123	S1+	20 - 110				03/06/23 13:48	03/08/23 16:54	50
2-Fluorobiphenyl (Surr)	127	S1+	20 - 110				03/06/23 13:48	03/10/23 10:20	500
Nitrobenzene-d5 (Surr)	87		11 - 116				03/06/23 13:48	03/08/23 16:54	50
Nitrobenzene-d5 (Surr)	84		11 - 116				03/06/23 13:48	03/10/23 10:20	500
Terphenyl-d14 (Surr)	172	S1+	18 - 110				03/06/23 13:48	03/08/23 16:54	50

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-1 (1.5-2)**

**Lab Sample ID: 310-250462-1**

Date Collected: 02/27/23 09:30

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 92.0

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	170	S1+	18 - 110	03/06/23 13:48	03/10/23 10:20	500

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<10.4		10.4		mg/Kg	⊛	03/06/23 06:55	03/06/23 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120	03/06/23 06:55	03/06/23 13:38	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	570		51.9		mg/Kg	⊛	03/02/23 09:41	03/07/23 11:08	10

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.74		0.938		mg/Kg	⊛	03/08/23 10:05	03/08/23 15:57	5
Barium	48.3		0.938		mg/Kg	⊛	03/08/23 10:05	03/08/23 15:57	5
Cadmium	<0.469		0.469		mg/Kg	⊛	03/08/23 10:05	03/08/23 15:57	5
Chromium	33.0		1.41		mg/Kg	⊛	03/08/23 10:05	03/08/23 15:57	5
Lead	6.61		2.34		mg/Kg	⊛	03/08/23 10:05	03/08/23 15:57	5
Selenium	1.50		1.41		mg/Kg	⊛	03/08/23 10:05	03/08/23 15:57	5
Silver	<0.234		0.234		mg/Kg	⊛	03/08/23 10:05	03/08/23 15:57	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0176		0.0176		mg/Kg	⊛	03/07/23 14:36	03/08/23 14:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.0		0.1		%			03/01/23 10:29	1
Percent Solids (EPA Moisture)	92.0		0.1		%			03/01/23 10:29	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-2 (1.5-2)**

**Lab Sample ID: 310-250462-2**

Date Collected: 02/27/23 09:45

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 91.6

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.531		0.531		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Allyl chloride	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Benzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Bromobenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Bromochloromethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Bromodichloromethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Bromoform	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Bromomethane	<0.531		0.531		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
2-Butanone (MEK)	<0.796		0.796		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Carbon tetrachloride	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Chlorobenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Chlorodibromomethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Chloroethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Chloroform	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Chloromethane	<0.265		0.265		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
2-Chlorotoluene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
4-Chlorotoluene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
cis-1,2-Dichloroethene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
cis-1,3-Dichloropropene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,2-Dibromo-3-chloropropane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,2-Dibromoethane (EDB)	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Dibromomethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,2-Dichlorobenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,3-Dichlorobenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,4-Dichlorobenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Dichlorodifluoromethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,1-Dichloroethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,2-Dichloroethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,1-Dichloroethene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Dichlorofluoromethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,2-Dichloropropane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,3-Dichloropropane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
2,2-Dichloropropane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,1-Dichloropropene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Diethyl ether	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Ethylbenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Hexachlorobutadiene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Isopropylbenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Methylene chloride	<0.265		0.265		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
4-Methyl-2-pentanone (MIBK)	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Methyl tert-butyl ether	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Naphthalene	<0.265		0.265		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
n-Butylbenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
n-Propylbenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
p-Isopropyltoluene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
sec-Butylbenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
Styrene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
tert-Butylbenzene	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1
1,1,1,2-Tetrachloroethane	<0.106		0.106		mg/Kg	✱	03/02/23 06:29	03/02/23 11:48	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-2 (1.5-2)**

**Lab Sample ID: 310-250462-2**

Date Collected: 02/27/23 09:45

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 91.6

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
Tetrachloroethene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
Tetrahydrofuran	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
Toluene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
trans-1,2-Dichloroethene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
trans-1,3-Dichloropropene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
1,2,3-Trichlorobenzene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
1,2,4-Trichlorobenzene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
1,1,1-Trichloroethane	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
1,1,2-Trichloroethane	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
Trichloroethene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
Trichlorofluoromethane	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
1,2,3-Trichloropropane	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
1,1,2-Trichlorotrifluoroethane	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
1,2,4-Trimethylbenzene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
1,3,5-Trimethylbenzene	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
Vinyl chloride	<0.106		0.106		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
Xylenes, Total	<0.159		0.159		mg/Kg	☼	03/02/23 06:29	03/02/23 11:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120				03/02/23 06:29	03/02/23 11:48	1
Dibromofluoromethane (Surr)	103		80 - 120				03/02/23 06:29	03/02/23 11:48	1
Toluene-d8 (Surr)	95		80 - 120				03/02/23 06:29	03/02/23 11:48	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.157		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Acenaphthylene	<0.0523		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Anthracene	0.233		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Benzo(a)anthracene	0.505		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Benzo(a)pyrene	0.473		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Benzo(b)fluoranthene	0.618		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Benzo(g,h,i)perylene	0.271		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Benzo(k)fluoranthene	0.251		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Chrysene	0.570		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Dibenz(a,h)anthracene	0.0593		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Fluoranthene	1.23		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Fluorene	0.125		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Indeno(1,2,3-cd)pyrene	0.305		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
2-Methylnaphthalene	<0.0523		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Naphthalene	0.0527		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Phenanthrene	1.01		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Pyrene	0.977		0.0523		mg/Kg	☼	03/06/23 13:48	03/08/23 17:14	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	107		20 - 110				03/06/23 13:48	03/08/23 17:14	5
Nitrobenzene-d5 (Surr)	81		11 - 116				03/06/23 13:48	03/08/23 17:14	5
Terphenyl-d14 (Surr)	106		18 - 110				03/06/23 13:48	03/08/23 17:14	5

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-2 (1.5-2)**

**Lab Sample ID: 310-250462-2**

Date Collected: 02/27/23 09:45

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 91.6

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<9.69		9.69		mg/Kg	☼	03/06/23 06:55	03/06/23 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120				03/06/23 06:55	03/06/23 14:09	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	28.5		5.30		mg/Kg	☼	03/02/23 09:41	03/06/23 12:55	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.56		0.807		mg/Kg	☼	03/08/23 10:05	03/08/23 16:00	5
Barium	42.1		0.807		mg/Kg	☼	03/08/23 10:05	03/08/23 16:00	5
Cadmium	<0.404		0.404		mg/Kg	☼	03/08/23 10:05	03/08/23 16:00	5
Chromium	22.4		1.21		mg/Kg	☼	03/08/23 10:05	03/08/23 16:00	5
Lead	4.26		2.02		mg/Kg	☼	03/08/23 10:05	03/08/23 16:00	5
Selenium	1.29		1.21		mg/Kg	☼	03/08/23 10:05	03/08/23 16:00	5
Silver	<0.202		0.202		mg/Kg	☼	03/08/23 10:05	03/08/23 16:00	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0193		0.0193		mg/Kg	☼	03/07/23 14:36	03/08/23 14:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	8.4		0.1		%			03/01/23 10:29	1
Percent Solids (EPA Moisture)	91.6		0.1		%			03/01/23 10:29	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: Trip Blank**

**Lab Sample ID: 310-250462-3**

Date Collected: 02/27/23 00:00

Matrix: Solid

Date Received: 03/01/23 09:15

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.500		0.500		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Allyl chloride	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Benzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Bromobenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Bromochloromethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Bromodichloromethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Bromoform	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Bromomethane	<0.500		0.500		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
2-Butanone (MEK)	<0.750		0.750		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Carbon tetrachloride	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Chlorobenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Chlorodibromomethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Chloroethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Chloroform	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Chloromethane	<0.250		0.250		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
2-Chlorotoluene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
4-Chlorotoluene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
cis-1,2-Dichloroethene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
cis-1,3-Dichloropropene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2-Dibromo-3-chloropropane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2-Dibromoethane (EDB)	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Dibromomethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2-Dichlorobenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,3-Dichlorobenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,4-Dichlorobenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Dichlorodifluoromethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,1-Dichloroethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2-Dichloroethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,1-Dichloroethene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Dichlorofluoromethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2-Dichloropropane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,3-Dichloropropane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
2,2-Dichloropropane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,1-Dichloropropene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Diethyl ether	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Ethylbenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Hexachlorobutadiene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Isopropylbenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Methylene chloride	<0.250		0.250		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
4-Methyl-2-pentanone (MIBK)	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Methyl tert-butyl ether	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Naphthalene	<0.250		0.250		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
n-Butylbenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
n-Propylbenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
p-Isopropyltoluene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
sec-Butylbenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Styrene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
tert-Butylbenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,1,1,2-Tetrachloroethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: Trip Blank**

**Lab Sample ID: 310-250462-3**

Date Collected: 02/27/23 00:00

Matrix: Solid

Date Received: 03/01/23 09:15

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Tetrachloroethene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Tetrahydrofuran	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Toluene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
trans-1,2-Dichloroethene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
trans-1,3-Dichloropropene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2,3-Trichlorobenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2,4-Trichlorobenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,1,1-Trichloroethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,1,2-Trichloroethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Trichloroethene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Trichlorofluoromethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2,3-Trichloropropane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,1,2-Trichlorotrifluoroethane	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,2,4-Trimethylbenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
1,3,5-Trimethylbenzene	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Vinyl chloride	<0.100		0.100		mg/Kg		03/02/23 06:29	03/02/23 09:49	1
Xylenes, Total	<0.150		0.150		mg/Kg		03/02/23 06:29	03/02/23 09:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120	03/02/23 06:29	03/02/23 09:49	1
Dibromofluoromethane (Surr)	95		80 - 120	03/02/23 06:29	03/02/23 09:49	1
Toluene-d8 (Surr)	96		80 - 120	03/02/23 06:29	03/02/23 09:49	1

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<10.0		10.0		mg/Kg		03/06/23 06:55	03/06/23 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120	03/06/23 06:55	03/06/23 14:40	1

## Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
SDG: Duluth 171568

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Surrogate Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

### Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (80-120)	TOL (80-120)
310-250462-1	HA-1 (1.5-2)	95	112	96
310-250462-2	HA-2 (1.5-2)	98	103	95
310-250462-3	Trip Blank	101	95	96
LCS 310-380299/2-A	Lab Control Sample	98	109	97
MB 310-380299/1-A	Method Blank	95	101	93

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (20-110)	NBZ (11-116)	TPHL (18-110)
310-250462-1	HA-1 (1.5-2)	123 S1+	87	172 S1+
310-250462-1	HA-1 (1.5-2)	127 S1+	84	170 S1+
310-250462-1 MS	HA-1 (1.5-2)	115 S1+	80	110
310-250462-1 MSD	HA-1 (1.5-2)	119 S1+	59	141 S1+
310-250462-2	HA-2 (1.5-2)	107	81	106
LCS 310-380587/2-A	Lab Control Sample	60	69	93
MB 310-380587/1-A	Method Blank	82	81	97

**Surrogate Legend**

FBP = 2-Fluorobiphenyl (Surr)  
 NBZ = Nitrobenzene-d5 (Surr)  
 TPHL = Terphenyl-d14 (Surr)

### Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		BFB (80-120)
310-250462-1	HA-1 (1.5-2)	104
310-250462-2	HA-2 (1.5-2)	104
310-250462-3	Trip Blank	108
LCS 310-380496/2-A	Lab Control Sample	111
LCSD 310-380496/25-A	Lab Control Sample Dup	115
MB 310-380496/1-A	Method Blank	88

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 310-380299/1-A**  
**Matrix: Solid**  
**Analysis Batch: 380301**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 380299**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<0.494		0.494		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Allyl chloride	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Benzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Bromobenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Bromochloromethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Bromodichloromethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Bromoform	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Bromomethane	<0.494		0.494		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
2-Butanone (MEK)	<0.741		0.741		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Carbon tetrachloride	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Chlorobenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Chlorodibromomethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Chloroethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Chloroform	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Chloromethane	<0.247		0.247		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
2-Chlorotoluene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
4-Chlorotoluene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
cis-1,2-Dichloroethene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
cis-1,3-Dichloropropene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2-Dibromo-3-chloropropane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2-Dibromoethane (EDB)	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Dibromomethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2-Dichlorobenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,3-Dichlorobenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,4-Dichlorobenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Dichlorodifluoromethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,1-Dichloroethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2-Dichloroethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,1-Dichloroethene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Dichlorofluoromethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2-Dichloropropane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,3-Dichloropropane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
2,2-Dichloropropane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,1-Dichloropropene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Diethyl ether	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Ethylbenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Hexachlorobutadiene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Isopropylbenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Methylene chloride	<0.247		0.247		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
4-Methyl-2-pentanone (MIBK)	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Methyl tert-butyl ether	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Naphthalene	<0.247		0.247		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
n-Butylbenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
n-Propylbenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
p-Isopropyltoluene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
sec-Butylbenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Styrene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
tert-Butylbenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1

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## QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

### Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-380299/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 380301

Prep Batch: 380299

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,1,2,2-Tetrachloroethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Tetrachloroethene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Tetrahydrofuran	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Toluene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
trans-1,2-Dichloroethene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
trans-1,3-Dichloropropene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2,3-Trichlorobenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2,4-Trichlorobenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,1,1-Trichloroethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,1,2-Trichloroethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Trichloroethene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Trichlorofluoromethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2,3-Trichloropropane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,1,2-Trichlorotrifluoroethane	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,2,4-Trimethylbenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
1,3,5-Trimethylbenzene	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Vinyl chloride	<0.0988		0.0988		mg/Kg		03/02/23 06:29	03/02/23 08:38	1
Xylenes, Total	<0.148		0.148		mg/Kg		03/02/23 06:29	03/02/23 08:38	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		80 - 120	03/02/23 06:29	03/02/23 08:38	1
Dibromofluoromethane (Surr)	101		80 - 120	03/02/23 06:29	03/02/23 08:38	1
Toluene-d8 (Surr)	93		80 - 120	03/02/23 06:29	03/02/23 08:38	1

Lab Sample ID: LCS 310-380299/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 380301

Prep Batch: 380299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	0.980	1.122		mg/Kg		114	50 - 150
Benzene	0.980	1.016		mg/Kg		104	80 - 130
Bromobenzene	0.980	1.036		mg/Kg		106	76 - 124
Bromochloromethane	0.980	1.041		mg/Kg		106	78 - 141
Bromodichloromethane	0.980	0.8894		mg/Kg		91	74 - 129
Bromoform	0.980	0.7985		mg/Kg		81	63 - 128
2-Butanone (MEK)	1.96	1.904		mg/Kg		97	50 - 150
Carbon tetrachloride	0.980	1.069		mg/Kg		109	75 - 136
Chlorobenzene	0.980	0.9466		mg/Kg		97	79 - 125
Chlorodibromomethane	0.980	0.8403		mg/Kg		86	73 - 125
Chloroform	0.980	1.098		mg/Kg		112	74 - 133
2-Chlorotoluene	0.980	0.9302		mg/Kg		95	77 - 125
4-Chlorotoluene	0.980	0.9572		mg/Kg		98	76 - 124
cis-1,2-Dichloroethene	0.980	1.094		mg/Kg		112	76 - 136
cis-1,3-Dichloropropene	0.980	0.9105		mg/Kg		93	78 - 129
1,2-Dibromo-3-chloropropane	0.980	0.7696		mg/Kg		79	50 - 150
1,2-Dibromoethane (EDB)	0.980	0.9208		mg/Kg		94	77 - 130

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-380299/2-A

Matrix: Solid

Analysis Batch: 380301

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 380299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibromomethane	0.980	1.004		mg/Kg		102	77 - 135
1,2-Dichlorobenzene	0.980	0.9838		mg/Kg		100	74 - 123
1,3-Dichlorobenzene	0.980	0.9653		mg/Kg		98	75 - 123
1,4-Dichlorobenzene	0.980	0.9662		mg/Kg		99	76 - 123
1,1-Dichloroethane	0.980	1.097		mg/Kg		112	74 - 139
1,2-Dichloroethane	0.980	1.096		mg/Kg		112	73 - 138
1,1-Dichloroethene	0.980	1.071		mg/Kg		109	62 - 144
1,2-Dichloropropane	0.980	1.043		mg/Kg		106	79 - 130
1,3-Dichloropropane	0.980	1.008		mg/Kg		103	76 - 133
2,2-Dichloropropane	0.980	1.155		mg/Kg		118	50 - 150
1,1-Dichloropropene	0.980	1.056		mg/Kg		108	78 - 136
Diethyl ether	0.980	1.001		mg/Kg		102	64 - 145
Ethylbenzene	0.980	0.9442		mg/Kg		96	80 - 128
Hexachlorobutadiene	0.980	1.054		mg/Kg		108	50 - 150
Isopropylbenzene	0.980	0.9663		mg/Kg		99	80 - 125
Methylene chloride	0.980	1.080		mg/Kg		110	50 - 150
4-Methyl-2-pentanone (MIBK)	1.96	1.646		mg/Kg		84	64 - 138
Methyl tert-butyl ether	0.980	1.044		mg/Kg		107	70 - 138
Naphthalene	0.980	0.7963		mg/Kg		81	50 - 150
n-Butylbenzene	0.980	0.9126		mg/Kg		93	73 - 126
n-Propylbenzene	0.980	0.9491		mg/Kg		97	79 - 126
p-Isopropyltoluene	0.980	0.9083		mg/Kg		93	75 - 126
sec-Butylbenzene	0.980	0.9148		mg/Kg		93	75 - 126
Styrene	0.980	0.9695		mg/Kg		99	79 - 122
tert-Butylbenzene	0.980	0.9190		mg/Kg		94	76 - 125
1,1,1,2-Tetrachloroethane	0.980	0.9124		mg/Kg		93	78 - 127
1,1,2,2-Tetrachloroethane	0.980	0.8675		mg/Kg		89	70 - 129
Tetrachloroethene	0.980	1.058		mg/Kg		108	77 - 133
Tetrahydrofuran	1.96	1.736		mg/Kg		89	67 - 142
Toluene	0.980	0.9862		mg/Kg		101	80 - 127
trans-1,2-Dichloroethene	0.980	1.068		mg/Kg		109	70 - 136
trans-1,3-Dichloropropene	0.980	0.8839		mg/Kg		90	74 - 129
1,2,3-Trichlorobenzene	0.980	0.9152		mg/Kg		93	50 - 150
1,2,4-Trichlorobenzene	0.980	0.9891		mg/Kg		101	67 - 131
1,1,1-Trichloroethane	0.980	1.089		mg/Kg		111	77 - 136
1,1,2-Trichloroethane	0.980	0.9501		mg/Kg		97	74 - 130
Trichloroethene	0.980	0.9999		mg/Kg		102	80 - 131
1,2,3-Trichloropropane	0.980	0.8546		mg/Kg		87	69 - 133
1,1,2-Trichlorotrifluoroethane	0.980	0.9871		mg/Kg		101	59 - 149
1,2,4-Trimethylbenzene	0.980	0.8857		mg/Kg		90	76 - 129
1,3,5-Trimethylbenzene	0.980	0.8861		mg/Kg		90	76 - 127
Xylenes, Total	1.96	1.929		mg/Kg		98	80 - 128

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	109		80 - 120
Toluene-d8 (Surr)	97		80 - 120

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Lab Sample ID: MB 310-380587/1-A**  
**Matrix: Solid**  
**Analysis Batch: 380960**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 380587**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Acenaphthylene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Anthracene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Benzo(a)anthracene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Benzo(a)pyrene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Benzo(b)fluoranthene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Benzo(g,h,i)perylene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Benzo(k)fluoranthene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Chrysene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Dibenz(a,h)anthracene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Fluoranthene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Fluorene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Indeno(1,2,3-cd)pyrene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
2-Methylnaphthalene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Naphthalene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Phenanthrene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1
Pyrene	<0.00939		0.00939		mg/Kg		03/06/23 13:48	03/10/23 09:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		20 - 110	03/06/23 13:48	03/10/23 09:42	1
Nitrobenzene-d5 (Surr)	81		11 - 116	03/06/23 13:48	03/10/23 09:42	1
Terphenyl-d14 (Surr)	97		18 - 110	03/06/23 13:48	03/10/23 09:42	1

**Lab Sample ID: LCS 310-380587/2-A**  
**Matrix: Solid**  
**Analysis Batch: 380960**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 380587**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0317	0.02653		mg/Kg		84	30 - 110
Acenaphthylene	0.0317	0.02583		mg/Kg		82	31 - 110
Anthracene	0.0317	0.02627		mg/Kg		83	32 - 110
Benzo(a)anthracene	0.0317	0.02676		mg/Kg		84	36 - 110
Benzo(a)pyrene	0.0317	0.02534		mg/Kg		80	36 - 110
Benzo(b)fluoranthene	0.0317	0.02580		mg/Kg		81	37 - 110
Benzo(g,h,i)perylene	0.0317	0.02409		mg/Kg		76	22 - 110
Benzo(k)fluoranthene	0.0317	0.02972		mg/Kg		94	35 - 110
Chrysene	0.0317	0.03010		mg/Kg		95	35 - 110
Dibenz(a,h)anthracene	0.0317	0.02505		mg/Kg		79	23 - 110
Fluoranthene	0.0317	0.02956		mg/Kg		93	30 - 110
Fluorene	0.0317	0.02808		mg/Kg		89	30 - 110
Indeno(1,2,3-cd)pyrene	0.0317	0.02229		mg/Kg		70	23 - 110
2-Methylnaphthalene	0.0317	0.02012		mg/Kg		64	30 - 110
Naphthalene	0.0317	0.01849		mg/Kg		58	31 - 110
Phenanthrene	0.0317	0.02543		mg/Kg		80	32 - 110
Pyrene	0.0317	0.02931		mg/Kg		93	28 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	60		20 - 110

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

**Lab Sample ID: LCS 310-380587/2-A**  
**Matrix: Solid**  
**Analysis Batch: 380960**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 380587**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	69		11 - 116
Terphenyl-d14 (Surr)	93		18 - 110

**Lab Sample ID: 310-250462-1 MS**  
**Matrix: Solid**  
**Analysis Batch: 380784**

**Client Sample ID: HA-1 (1.5-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 380587**

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Acenaphthene	3.99		0.0359	1.426	4	mg/Kg	☼	-7146	21 - 110	
Acenaphthylene	<0.543		0.0359	<0.538		mg/Kg	☼	NC	22 - 110	
Anthracene	6.29	F2	0.0359	1.842	4	mg/Kg	☼	-1238	20 - 110	
Benzo(a)anthracene	12.6		0.0359	4.912	4	mg/Kg	☼	-2151	20 - 110	
Benzo(a)pyrene	12.1		0.0359	4.727	4	mg/Kg	☼	-2064	16 - 115	
Benzo(b)fluoranthene	15.7		0.0359	6.210	4	mg/Kg	☼	-2636	18 - 115	
Benzo(g,h,i)perylene	7.59		0.0359	2.653	4	mg/Kg	☼	-1377	14 - 110	
Benzo(k)fluoranthene	5.71		0.0359	2.527	4	mg/Kg	☼	-8870	24 - 110	
Chrysene	14.7		0.0359	5.617	4	mg/Kg	☼	-2537	18 - 110	
Dibenz(a,h)anthracene	1.50		0.0359	0.5474	4	mg/Kg	☼	-2648	21 - 110	
Fluoranthene	32.9	F2 E	0.0359	9.806	4	mg/Kg	☼	-6447	10 - 110	
Fluorene	3.26		0.0359	1.136	4	mg/Kg	☼	-5914	16 - 110	
Indeno(1,2,3-cd)pyrene	8.06		0.0359	2.837	4	mg/Kg	☼	-1456	16 - 110	
2-Methylnaphthalene	<0.543		0.0359	<0.538	4	mg/Kg	☼	-602	18 - 110	
Naphthalene	1.34		0.0359	<0.538	4	mg/Kg	☼	-2683	18 - 110	
Phenanthrene	26.1	E	0.0359	8.939	4	mg/Kg	☼	-4781	13 - 110	
Pyrene	26.8	F2 E	0.0359	7.859	4	mg/Kg	☼	-5283	15 - 110	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	115	S1+	20 - 110
Nitrobenzene-d5 (Surr)	80		11 - 116
Terphenyl-d14 (Surr)	110		18 - 110

**Lab Sample ID: 310-250462-1 MSD**  
**Matrix: Solid**  
**Analysis Batch: 380784**

**Client Sample ID: HA-1 (1.5-2)**  
**Prep Type: Total/NA**  
**Prep Batch: 380587**

Analyte	Sample	Sample	Spike	MSD MSD		Unit	D	%Rec	%Rec	Limits	RPD	
	Result	Qualifier	Added	Result	Qualifier						RPD	Limit
Acenaphthene	3.99		0.0357	1.684	4	mg/Kg	☼	-6465	21 - 110	17	40	
Acenaphthylene	<0.543		0.0357	<0.535		mg/Kg	☼	NC	22 - 110	NC	40	
Anthracene	6.29	F2	0.0357	2.797	4 F2	mg/Kg	☼	-9785	20 - 110	41	39	
Benzo(a)anthracene	12.6		0.0357	6.210	4	mg/Kg	☼	-1799	20 - 110	23	39	

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## QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 310-250462-1 MSD

Matrix: Solid

Analysis Batch: 380784

Client Sample ID: HA-1 (1.5-2)

Prep Type: Total/NA

Prep Batch: 380587

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Benzo(a)pyrene	12.1		0.0357	5.958	4	mg/Kg	⊛	-1731	16 - 115	23	40
Benzo(b)fluoranthene	15.7		0.0357	7.605	4	mg/Kg	⊛	-2261	18 - 115	20	40
Benzo(g,h,i)perylene	7.59		0.0357	3.628	4	mg/Kg	⊛	-11118	14 - 110	31	38
Benzo(k)fluoranthene	5.71		0.0357	3.025	4	mg/Kg	⊛	-7527	24 - 110	18	39
Chrysene	14.7		0.0357	7.087	4	mg/Kg	⊛	-2140	18 - 110	23	38
Dibenz(a,h)anthracene	1.50		0.0357	0.7515	4	mg/Kg	⊛	-2092	21 - 110	31	36
Fluoranthene	32.9	F2 E	0.0357	16.02	4 F2	mg/Kg	⊛	-4745	10 - 110	48	40
Fluorene	3.26		0.0357	1.357	4	mg/Kg	⊛	-5331	16 - 110	18	40
Indeno(1,2,3-cd)pyrene	8.06		0.0357	3.882	4	mg/Kg	⊛	-1171	16 - 110	31	38
2-Methylnaphthalene	<0.543		0.0357	<0.535	4	mg/Kg	⊛	-688	18 - 110	15	40
Naphthalene	1.34		0.0357	<0.535	4	mg/Kg	⊛	-2672	18 - 110	3	40
Phenanthrene	26.1	E	0.0357	11.58	4	mg/Kg	⊛	-4070	13 - 110	26	40
Pyrene	26.8	F2 E	0.0357	13.18	4 F2	mg/Kg	⊛	-3824	15 - 110	51	40
<b>Surrogate</b>											
	<b>MSD</b>	<b>MSD</b>									
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
2-Fluorobiphenyl (Surr)	119	S1+	20 - 110								
Nitrobenzene-d5 (Surr)	59		11 - 116								
Terphenyl-d14 (Surr)	141	S1+	18 - 110								

### Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 310-380496/1-A

Matrix: Solid

Analysis Batch: 380499

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 380496

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Wisconsin GRO	<9.65		9.65		mg/Kg		03/06/23 06:55	03/06/23 07:00	1
<b>Surrogate</b>									
	<b>MB</b>	<b>MB</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
4-Bromofluorobenzene (Surr)	88		80 - 120				03/06/23 06:55	03/06/23 07:00	1

Lab Sample ID: LCS 310-380496/2-A

Matrix: Solid

Analysis Batch: 380499

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 380496

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Wisconsin GRO	19.5	21.70		mg/Kg		111	80 - 120
<b>Surrogate</b>							
		<b>LCS</b>	<b>LCS</b>				
		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			
4-Bromofluorobenzene (Surr)		111		80 - 120			

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 310-380496/25-A  
 Matrix: Solid  
 Analysis Batch: 380499

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 380496

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Wisconsin GRO	19.7	20.78		mg/Kg		105	80 - 120	4	20	
<b>LCSD LCSD</b>										
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
4-Bromofluorobenzene (Surr)	115		80 - 120							

## Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 310-380333/1-A  
 Matrix: Solid  
 Analysis Batch: 380501

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 380333

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<6.81		6.81		mg/Kg		03/02/23 09:41	03/06/23 09:24	1

Lab Sample ID: LCS 310-380333/2-A  
 Matrix: Solid  
 Analysis Batch: 380501

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 380333

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (DRO)	97.1	94.71		mg/Kg		98	70 - 120

Lab Sample ID: LCSD 310-380333/3-A  
 Matrix: Solid  
 Analysis Batch: 380501

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 380333

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (DRO)	96.6	95.24		mg/Kg		99	70 - 120	1	20

## Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-380579/1-A ^5  
 Matrix: Solid  
 Analysis Batch: 380884

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 380579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.964		0.964		mg/Kg		03/08/23 10:05	03/08/23 15:12	5
Barium	<0.964		0.964		mg/Kg		03/08/23 10:05	03/08/23 15:12	5
Cadmium	<0.482		0.482		mg/Kg		03/08/23 10:05	03/08/23 15:12	5
Chromium	<1.45		1.45		mg/Kg		03/08/23 10:05	03/08/23 15:12	5
Lead	<2.41		2.41		mg/Kg		03/08/23 10:05	03/08/23 15:12	5
Selenium	<1.45		1.45		mg/Kg		03/08/23 10:05	03/08/23 15:12	5
Silver	<0.241		0.241		mg/Kg		03/08/23 10:05	03/08/23 15:12	5

Lab Sample ID: LCS 310-380579/2-A ^20  
 Matrix: Solid  
 Analysis Batch: 380884

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 380579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	191	211.4		mg/Kg		111	80 - 120
Barium	95.3	109.7		mg/Kg		115	80 - 120

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## QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

### Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-380579/2-A ^20  
 Matrix: Solid  
 Analysis Batch: 380884

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 380579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Cadmium	95.3	110.6		mg/Kg		116	80 - 120	
Chromium	95.3	101.0		mg/Kg		106	80 - 120	
Lead	191	213.2		mg/Kg		112	80 - 120	
Selenium	381	422.1		mg/Kg		111	80 - 120	
Silver	95.3	114.1		mg/Kg		120	80 - 120	

### Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 310-380705/1-A  
 Matrix: Solid  
 Analysis Batch: 380827

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 380705

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0174		0.0174		mg/Kg		03/07/23 14:36	03/08/23 13:57	1

Lab Sample ID: LCS 310-380705/2-A  
 Matrix: Solid  
 Analysis Batch: 380827

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 380705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Mercury	0.162	0.1563		mg/Kg		97	80 - 120	

Lab Sample ID: 310-250462-1 MS  
 Matrix: Solid  
 Analysis Batch: 380827

Client Sample ID: HA-1 (1.5-2)  
 Prep Type: Total/NA  
 Prep Batch: 380705

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Mercury	<0.0176		0.137	0.1387		mg/Kg	⊛	93	80 - 120	

Lab Sample ID: 310-250462-1 MSD  
 Matrix: Solid  
 Analysis Batch: 380827

Client Sample ID: HA-1 (1.5-2)  
 Prep Type: Total/NA  
 Prep Batch: 380705

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	
									Limits		RPD	Limit
Mercury	<0.0176		0.164	0.1684		mg/Kg	⊛	96	80 - 120	19	20	

# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

## GC/MS VOA

### Prep Batch: 380299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	5035	
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	5035	
310-250462-3	Trip Blank	Total/NA	Solid	5035	
MB 310-380299/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-380299/2-A	Lab Control Sample	Total/NA	Solid	5035	

### Analysis Batch: 380301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	8260D	380299
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	8260D	380299
310-250462-3	Trip Blank	Total/NA	Solid	8260D	380299
MB 310-380299/1-A	Method Blank	Total/NA	Solid	8260D	380299
LCS 310-380299/2-A	Lab Control Sample	Total/NA	Solid	8260D	380299

## GC/MS Semi VOA

### Prep Batch: 380587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	3546	
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	3546	
MB 310-380587/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-380587/2-A	Lab Control Sample	Total/NA	Solid	3546	
310-250462-1 MS	HA-1 (1.5-2)	Total/NA	Solid	3546	
310-250462-1 MSD	HA-1 (1.5-2)	Total/NA	Solid	3546	

### Analysis Batch: 380784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	8270E SIM	380587
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	8270E SIM	380587
310-250462-1 MS	HA-1 (1.5-2)	Total/NA	Solid	8270E SIM	380587
310-250462-1 MSD	HA-1 (1.5-2)	Total/NA	Solid	8270E SIM	380587

### Analysis Batch: 380960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	8270E SIM	380587
MB 310-380587/1-A	Method Blank	Total/NA	Solid	8270E SIM	380587
LCS 310-380587/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	380587

## GC VOA

### Prep Batch: 380496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	WI GRO	
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	WI GRO	
310-250462-3	Trip Blank	Total/NA	Solid	WI GRO	
MB 310-380496/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-380496/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-380496/25-A	Lab Control Sample Dup	Total/NA	Solid	5035	

### Analysis Batch: 380499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	WI-GRO	380496

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# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

## GC VOA (Continued)

### Analysis Batch: 380499 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	WI-GRO	380496
310-250462-3	Trip Blank	Total/NA	Solid	WI-GRO	380496
MB 310-380496/1-A	Method Blank	Total/NA	Solid	WI-GRO	380496
LCS 310-380496/2-A	Lab Control Sample	Total/NA	Solid	WI-GRO	380496
LCSD 310-380496/25-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	380496

## GC Semi VOA

### Prep Batch: 380333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	WI DRO PREP	
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	WI DRO PREP	
MB 310-380333/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 310-380333/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 310-380333/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

### Analysis Batch: 380501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	WI-DRO	380333
MB 310-380333/1-A	Method Blank	Total/NA	Solid	WI-DRO	380333
LCS 310-380333/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	380333
LCSD 310-380333/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	380333

### Analysis Batch: 380617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	WI-DRO	380333

## Metals

### Prep Batch: 380579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	3050B	
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	3050B	
MB 310-380579/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 310-380579/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	

### Prep Batch: 380705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	7471B	
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	7471B	
MB 310-380705/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 310-380705/2-A	Lab Control Sample	Total/NA	Solid	7471B	
310-250462-1 MS	HA-1 (1.5-2)	Total/NA	Solid	7471B	
310-250462-1 MSD	HA-1 (1.5-2)	Total/NA	Solid	7471B	

### Analysis Batch: 380827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	7471B	380705
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	7471B	380705
MB 310-380705/1-A	Method Blank	Total/NA	Solid	7471B	380705
LCS 310-380705/2-A	Lab Control Sample	Total/NA	Solid	7471B	380705
310-250462-1 MS	HA-1 (1.5-2)	Total/NA	Solid	7471B	380705

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# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
SDG: Duluth 171568

## Metals (Continued)

### Analysis Batch: 380827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1 MSD	HA-1 (1.5-2)	Total/NA	Solid	7471B	380705

### Analysis Batch: 380884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	6020B	380579
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	6020B	380579
MB 310-380579/1-A ^5	Method Blank	Total/NA	Solid	6020B	380579
LCS 310-380579/2-A ^20	Lab Control Sample	Total/NA	Solid	6020B	380579

## General Chemistry

### Analysis Batch: 380248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250462-1	HA-1 (1.5-2)	Total/NA	Solid	Moisture	
310-250462-2	HA-2 (1.5-2)	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-1 (1.5-2)**

**Lab Sample ID: 310-250462-1**

Date Collected: 02/27/23 09:30

Matrix: Solid

Date Received: 03/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380248	DGU1	EET CF	03/01/23 10:29

**Client Sample ID: HA-1 (1.5-2)**

**Lab Sample ID: 310-250462-1**

Date Collected: 02/27/23 09:30

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380299	MZR8	EET CF	03/02/23 06:29
Total/NA	Analysis	8260D		1	380301	MZR8	EET CF	03/02/23 11:24
Total/NA	Prep	3546			380587	GW4G	EET CF	03/06/23 13:48
Total/NA	Analysis	8270E SIM		50	380784	D2YP	EET CF	03/08/23 16:54
Total/NA	Prep	3546			380587	GW4G	EET CF	03/06/23 13:48
Total/NA	Analysis	8270E SIM		500	380960	V7YZ	EET CF	03/10/23 10:20
Total/NA	Prep	WI GRO			380496	MZR8	EET CF	03/06/23 06:55
Total/NA	Analysis	WI-GRO		1	380499	MZR8	EET CF	03/06/23 13:38
Total/NA	Prep	WI DRO PREP			380333	GW4G	EET CF	03/02/23 09:41
Total/NA	Analysis	WI-DRO		10	380617	C3AA	EET CF	03/07/23 11:08
Total/NA	Prep	3050B			380579	KCK5	EET CF	03/08/23 10:05
Total/NA	Analysis	6020B		5	380884	A6US	EET CF	03/08/23 15:57
Total/NA	Prep	7471B			380705	XXW3	EET CF	03/07/23 14:36
Total/NA	Analysis	7471B		1	380827	DHM5	EET CF	03/08/23 14:06

**Client Sample ID: HA-2 (1.5-2)**

**Lab Sample ID: 310-250462-2**

Date Collected: 02/27/23 09:45

Matrix: Solid

Date Received: 03/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380248	DGU1	EET CF	03/01/23 10:29

**Client Sample ID: HA-2 (1.5-2)**

**Lab Sample ID: 310-250462-2**

Date Collected: 02/27/23 09:45

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380299	MZR8	EET CF	03/02/23 06:29
Total/NA	Analysis	8260D		1	380301	MZR8	EET CF	03/02/23 11:48
Total/NA	Prep	3546			380587	GW4G	EET CF	03/06/23 13:48
Total/NA	Analysis	8270E SIM		5	380784	D2YP	EET CF	03/08/23 17:14
Total/NA	Prep	WI GRO			380496	MZR8	EET CF	03/06/23 06:55
Total/NA	Analysis	WI-GRO		1	380499	MZR8	EET CF	03/06/23 14:09
Total/NA	Prep	WI DRO PREP			380333	GW4G	EET CF	03/02/23 09:41
Total/NA	Analysis	WI-DRO		1	380501	C3AA	EET CF	03/06/23 12:55
Total/NA	Prep	3050B			380579	KCK5	EET CF	03/08/23 10:05
Total/NA	Analysis	6020B		5	380884	A6US	EET CF	03/08/23 16:00

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

**Client Sample ID: HA-2 (1.5-2)**

**Lab Sample ID: 310-250462-2**

Date Collected: 02/27/23 09:45

Matrix: Solid

Date Received: 03/01/23 09:15

Percent Solids: 91.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			380705	XXW3	EET CF	03/07/23 14:36
Total/NA	Analysis	7471B		1	380827	DHM5	EET CF	03/08/23 14:12

**Client Sample ID: Trip Blank**

**Lab Sample ID: 310-250462-3**

Date Collected: 02/27/23 00:00

Matrix: Solid

Date Received: 03/01/23 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380299	MZR8	EET CF	03/02/23 06:29
Total/NA	Analysis	8260D		1	380301	MZR8	EET CF	03/02/23 09:49
Total/NA	Prep	WI GRO			380496	MZR8	EET CF	03/06/23 06:55
Total/NA	Analysis	WI-GRO		1	380499	MZR8	EET CF	03/06/23 14:40

**Laboratory References:**

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

# Accreditation/Certification Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

## Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Minnesota	NELAP	019-999-319	12-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D	5035	Solid	Dichlorofluoromethane
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

North Dakota	State	R-186	09-29-23
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
WI-DRO	WI DRO PREP	Solid	Diesel Range Organics (DRO)
WI-GRO	WI GRO	Solid	Wisconsin GRO



## Method Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Proposed Air Traffic Control Tower - Site G

Job ID: 310-250462-1  
 SDG: Duluth 171568

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET CF
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	EET CF
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7471B	Mercury (CVAA)	SW846	EET CF
Moisture	Percent Moisture	EPA	EET CF
3050B	Preparation, Metals	SW846	EET CF
3546	Microwave Extraction	SW846	EET CF
5035	Closed System Purge and Trap	SW846	EET CF
7471B	Preparation, Mercury	SW846	EET CF
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	EET CF
WI GRO	Closed System Purge and Trap	WI-GRO	EET CF

**Protocol References:**

- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
- WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

**Laboratory References:**

- EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401





Environment Testing  
America



310-250462 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client: <u>SEH</u>			
City/State:	CITY	STATE	Project:
		<u>MN</u>	
<b>Receipt Information</b>			
Date/Time Received:	DATE	TIME	Received By:
	<u>3-1-23</u>	<u>9:15</u>	<u>MC</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee			
<input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>All</u>			
<b>Temperature Record</b>			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID:	<u>R</u>	Correction Factor (°C):	<u>+0.2</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>0.7</u>	Corrected Temp (°C):	<u>0.9</u>
<b>Sample Container Temperature</b>			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			



<p><b>Client Information</b> Client Contact: <i>Jennifer Force</i> Company: <i>SEK</i> Address: <i>3555 Lalmus Center Dr - St Paul MN 55110</i> City: <i>St Paul</i> State Zip: <i>MN 55110</i> Phone: <i>651 424 0335</i> E-Mail: <i>Ellie.A.Allen</i> Lab PM: <i>Ellie.A.Allen</i> Carrier Tracking No(s): State of Origin:</p>		<p>COC No: Page: <i>1</i> of <i>1</i> Job #:</p>						
<p><b>Analysis Requested</b></p>								
<p>Due Date Requested: TAT Requested (days): <i>Standard</i> Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: WO #: Project #: <i>Duluth 171568</i> SSOW#:</p>		<p>Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Trizma Y - EDTA Z - other (specify) Other:</p>						
<p>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/></p> <p>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/></p>		<p>Total Number of containers <input checked="" type="checkbox"/></p> <p>Special Instructions/Note:</p>						
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=Tissue, AA=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note
<i>HA-1 (152)</i>	<i>2/27</i>	<i>930</i>	<i>G</i>	<i>S</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>PCR8 DRO CRD Vol</i>	
<i>HA-2 (152)</i>	<i>2/27</i>	<i>945</i>	<i>G</i>	<i>S</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>PCR8 DRO CRD Vol</i>	
<p><b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV Other (specify)</p>				<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>		<p>Special Instructions/QC Requirements</p>		
<p>Empty Kit Relinquished by:</p>		<p>Relinquished by: <i>Ellie.A.Allen</i> Date/Time: <i>2/27 1500</i> Company: _____</p>		<p>Relinquished by: <i>Michelle</i> Date/Time: <i>2/27/23 1530</i> Company: _____</p>		<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>		<p>Method of Shipment:</p>
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>Custody Seal No</p>		<p>Cooler Temperature(s) °C and Other Remarks:</p>		<p> </p>		<p>Ver: 01/15/2019</p>

## Login Sample Receipt Checklist

Client: Short Elliott Hendrickson, Inc. dba SEH

Job Number: 310-250462-1

SDG Number: Duluth 171568

**Login Number: 250462**

**List Number: 1**

**Creator: Costello, Mackenzie K**

**List Source: Eurofins Cedar Falls**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jennifer Force  
Short Elliott Hendrickson, Inc. dba SEH  
3535 Vadnais Center Drive  
St. Paul, Minnesota 55110

Generated 3/15/2023 3:50:55 PM

## JOB DESCRIPTION

ATCT Site 6  
SDG NUMBER 171568

## JOB NUMBER

310-250925-1

# Eurofins Cedar Falls

## Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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## Authorization



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3/15/2023 3:50:55 PM

Authorized for release by  
Conner Calhoun, Project Management Assistant I  
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# Case Narrative

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

## Job ID: 310-250925-1

### Laboratory: Eurofins Cedar Falls

#### Narrative

#### Job Narrative 310-250925-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/8/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2° C and 5.2° C.

#### GC/MS VOA

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: B-01W (9.67) (310-250925-1), B-02W (8.50) (310-250925-2), B-07W (9.10) (310-250925-3), B-06W (8.75) (310-250925-4) and B-08W (9.00) (310-250925-5).

Method 8260D: The following samples were diluted due to the nature of the sample matrix: B-02W (8.50) (310-250925-2), B-06W (8.75) (310-250925-4) and B-08W (9.00) (310-250925-5). Elevated reporting limits (RLs) are provided.

Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): B-02W (8.50) (310-250925-2).

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: B-01W (9.67) (310-250925-1).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-380856 recovered above the upper control limit for Dibromomethane (23.1%D), Dichlorobromomethane (22.6%D), Chlorodibromomethane (20.6%D) and 1,1,2-Trichlorotrifluoroethane (20.4%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-380856/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method 8270E SIM: The following sample was diluted due to the nature of the sample matrix: B-02 (3-4) (310-250925-10). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC VOA

Method WI-GRO: The following samples were collected in properly preserved vials; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed within the 7-day holding time specified for unpreserved samples: B-01W (9.67) (310-250925-1), B-02W (8.50) (310-250925-2), B-06W (8.75) (310-250925-4) and B-08W (9.00) (310-250925-5).

Method WI-GRO: Surrogate recovery for the following sample was outside the upper control limit: B-01W (9.67) (310-250925-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method WI-GRO: The continuing calibration verification (CCV) associated with batch 310-380821 recovered above the upper control limit for Wisconsin GRO and 4-Bromofluorobenzene (Surrogate). The LCS passed under CCV criteria and was used to qualify the beginning of this batch. The associated sample is impacted: (CCV 310-380821/2).

Method WI-GRO: The following samples were diluted due to the nature of their sample matrix: B-02W (8.50) (310-250925-2), B-06W (8.75) (310-250925-4) and B-08W (9.00) (310-250925-5). Elevated reporting limits (RLs) are provided. Samples had excessive sediment.

Method WI-GRO: The method requirement for no headspace was not met. The following volatile samples were analyzed with headspace

# Case Narrative

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

---

## Job ID: 310-250925-1 (Continued)

---

### Laboratory: Eurofins Cedar Falls (Continued)

in the sample containers: B-02W (8.50) (310-250925-2) and B-08W (9.00) (310-250925-5). The sample containers were received with headspace.

Method WI-GRO: Significant peaks, readily distinguished from background, were detected in the following sample within five minutes after the end of the analytical window defined by the last component eluting in the Gasoline Range Organics (GRO) mix (i.e., Naphthalene): B-05 (1.5-2.5) (310-250925-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### GC Semi VOA

Method WI-DRO: Significant peaks, readily distinguished from background, were detected in the following samples within five minutes after the end of the analytical window defined by the last component eluting in the Diesel Range Organics (DRO) mix (i.e., n-Octacosane): B-01W (9.67) (310-250925-1), B-02W (8.50) (310-250925-2), B-07W (9.10) (310-250925-3) and B-08W (9.00) (310-250925-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-380796. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 3510C: Elevated reporting limits are provided for the following sample(s) due to insufficient sample provided for preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Sample Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-250925-1	B-01W (9.67)	Water	03/06/23 12:15	03/08/23 09:30
310-250925-2	B-02W (8.50)	Water	03/06/23 13:15	03/08/23 09:30
310-250925-3	B-07W (9.10)	Water	03/06/23 14:00	03/08/23 09:30
310-250925-4	B-06W (8.75)	Water	03/06/23 14:20	03/08/23 09:30
310-250925-5	B-08W (9.00)	Water	03/06/23 15:45	03/08/23 09:30
310-250925-6	B-05 (1.5-2.5)	Solid	03/06/23 09:30	03/08/23 09:30
310-250925-7	B-03 (1.5-2.5)	Solid	03/06/23 10:00	03/08/23 09:30
310-250925-8	B-04 (2-3)	Solid	03/06/23 11:00	03/08/23 09:30
310-250925-9	B-01 (5-6)	Solid	03/06/23 12:00	03/08/23 09:30
310-250925-10	B-02 (3-4)	Solid	03/06/23 12:30	03/08/23 09:30
310-250925-11	B-07 (2.5-3.5)	Solid	03/06/23 13:20	03/08/23 09:30
310-250925-12	B-06 (5-6)	Solid	03/06/23 14:15	03/08/23 09:30
310-250925-13	B-08 (3-4)	Solid	03/06/23 15:00	03/08/23 09:30
310-250925-15	Trip Blank (Soil)	Solid	03/06/23 00:00	03/08/23 09:30

# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

## Client Sample ID: B-01W (9.67)

Lab Sample ID: 310-250925-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	5.62		1.00		ug/L	1		8260D	Total/NA
Diesel Range Organics (DRO)	442		100		ug/L	1		WI-DRO	Total/NA

## Client Sample ID: B-02W (8.50)

Lab Sample ID: 310-250925-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO)	109		104		ug/L	1		WI-DRO	Total/NA

## Client Sample ID: B-07W (9.10)

Lab Sample ID: 310-250925-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO)	155		104		ug/L	1		WI-DRO	Total/NA

## Client Sample ID: B-06W (8.75)

Lab Sample ID: 310-250925-4

No Detections.

## Client Sample ID: B-08W (9.00)

Lab Sample ID: 310-250925-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics (DRO)	198		179		ug/L	1		WI-DRO	Total/NA

## Client Sample ID: B-05 (1.5-2.5)

Lab Sample ID: 310-250925-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.0525		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Anthracene	0.0513		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Benzo(a)anthracene	0.117		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Benzo(a)pyrene	0.114		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.147		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.0617		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.0476		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Chrysene	0.120		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Dibenz(a,h)anthracene	0.0149		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Fluoranthene	0.264		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Fluorene	0.0428		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.0732		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Naphthalene	0.0267		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Phenanthrene	0.271		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Pyrene	0.204		0.0113		mg/Kg	1	*	8270E SIM	Total/NA
Arsenic	2.90		0.883		mg/Kg	5	*	6020B	Total/NA
Barium	52.6		0.883		mg/Kg	5	*	6020B	Total/NA
Chromium	32.4		1.33		mg/Kg	5	*	6020B	Total/NA
Lead	6.52		2.21		mg/Kg	5	*	6020B	Total/NA
Selenium	1.50		1.33		mg/Kg	5	*	6020B	Total/NA

## Client Sample ID: B-03 (1.5-2.5)

Lab Sample ID: 310-250925-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	0.0155		0.0102		mg/Kg	1	*	8270E SIM	Total/NA
Benzo(a)pyrene	0.0155		0.0102		mg/Kg	1	*	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.0224		0.0102		mg/Kg	1	*	8270E SIM	Total/NA
Chrysene	0.0181		0.0102		mg/Kg	1	*	8270E SIM	Total/NA
Fluoranthene	0.0310		0.0102		mg/Kg	1	*	8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

## Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

### Client Sample ID: B-03 (1.5-2.5) (Continued)

Lab Sample ID: 310-250925-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Indeno(1,2,3-cd)pyrene	0.0117		0.0102		mg/Kg	1	✳	8270E SIM	Total/NA
Phenanthrene	0.0199		0.0102		mg/Kg	1	✳	8270E SIM	Total/NA
Pyrene	0.0235		0.0102		mg/Kg	1	✳	8270E SIM	Total/NA
Arsenic	3.05		1.04		mg/Kg	5	✳	6020B	Total/NA
Barium	52.3		1.04		mg/Kg	5	✳	6020B	Total/NA
Chromium	27.0		1.56		mg/Kg	5	✳	6020B	Total/NA
Lead	7.10		2.61		mg/Kg	5	✳	6020B	Total/NA
Mercury	0.0195		0.0170		mg/Kg	1	✳	7471B	Total/NA

### Client Sample ID: B-04 (2-3)

Lab Sample ID: 310-250925-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.251		0.129		mg/Kg	1	✳	8260D	Total/NA
1,2,4-Trimethylbenzene	0.274		0.129		mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	0.484		0.194		mg/Kg	1	✳	8260D	Total/NA
Arsenic	2.99		0.911		mg/Kg	5	✳	6020B	Total/NA
Barium	54.2		0.911		mg/Kg	5	✳	6020B	Total/NA
Chromium	25.7		1.37		mg/Kg	5	✳	6020B	Total/NA
Lead	5.11		2.28		mg/Kg	5	✳	6020B	Total/NA

### Client Sample ID: B-01 (5-6)

Lab Sample ID: 310-250925-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.49		1.07		mg/Kg	5	✳	6020B	Total/NA
Barium	57.2		1.07		mg/Kg	5	✳	6020B	Total/NA
Chromium	28.6		1.61		mg/Kg	5	✳	6020B	Total/NA
Lead	5.72		2.68		mg/Kg	5	✳	6020B	Total/NA

### Client Sample ID: B-02 (3-4)

Lab Sample ID: 310-250925-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo(a)anthracene	0.116		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Benzo(a)pyrene	0.126		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.198		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.101		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.0736		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Chrysene	0.147		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Fluoranthene	0.228		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.120		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Phenanthrene	0.124		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Pyrene	0.174		0.0573		mg/Kg	5	✳	8270E SIM	Total/NA
Arsenic	3.38		0.908		mg/Kg	5	✳	6020B	Total/NA
Barium	67.5		0.908		mg/Kg	5	✳	6020B	Total/NA
Chromium	29.4		1.36		mg/Kg	5	✳	6020B	Total/NA
Lead	11.9		2.27		mg/Kg	5	✳	6020B	Total/NA

### Client Sample ID: B-07 (2.5-3.5)

Lab Sample ID: 310-250925-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.310		0.125		mg/Kg	1	✳	8260D	Total/NA
Benzo(b)fluoranthene	0.0107		0.0107		mg/Kg	1	✳	8270E SIM	Total/NA
Fluoranthene	0.0126		0.0107		mg/Kg	1	✳	8270E SIM	Total/NA
Arsenic	1.97		0.917		mg/Kg	5	✳	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls



# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

## Client Sample ID: B-07 (2.5-3.5) (Continued)

## Lab Sample ID: 310-250925-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	46.6		0.917		mg/Kg	5	✳	6020B	Total/NA
Chromium	26.7		1.38		mg/Kg	5	✳	6020B	Total/NA
Lead	5.22		2.29		mg/Kg	5	✳	6020B	Total/NA

## Client Sample ID: B-06 (5-6)

## Lab Sample ID: 310-250925-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.298		0.122		mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	0.185		0.183		mg/Kg	1	✳	8260D	Total/NA
Acenaphthene	0.0135		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Anthracene	0.0194		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(a)anthracene	0.0536		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(a)pyrene	0.0502		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.0639		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.0284		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.0237		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Chrysene	0.0570		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Fluoranthene	0.0989		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.0354		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Phenanthrene	0.0825		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Pyrene	0.0774		0.0106		mg/Kg	1	✳	8270E SIM	Total/NA
Arsenic	2.02		0.889		mg/Kg	5	✳	6020B	Total/NA
Barium	40.6		0.889		mg/Kg	5	✳	6020B	Total/NA
Chromium	22.7		1.33		mg/Kg	5	✳	6020B	Total/NA
Lead	5.98		2.22		mg/Kg	5	✳	6020B	Total/NA

## Client Sample ID: B-08 (3-4)

## Lab Sample ID: 310-250925-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.210		0.108		mg/Kg	1	✳	8260D	Total/NA
1,2,4-Trimethylbenzene	0.205		0.108		mg/Kg	1	✳	8260D	Total/NA
Xylenes, Total	0.300		0.163		mg/Kg	1	✳	8260D	Total/NA
Acenaphthylene	0.0138		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Anthracene	0.0361		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(a)anthracene	0.0922		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(a)pyrene	0.0691		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(b)fluoranthene	0.0876		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(g,h,i)perylene	0.0278		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Benzo(k)fluoranthene	0.0289		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Chrysene	0.0761		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Fluoranthene	0.155		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Fluorene	0.0254		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Indeno(1,2,3-cd)pyrene	0.0395		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Phenanthrene	0.165		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Pyrene	0.115		0.0108		mg/Kg	1	✳	8270E SIM	Total/NA
Arsenic	2.59		1.04		mg/Kg	5	✳	6020B	Total/NA
Barium	51.6		1.04		mg/Kg	5	✳	6020B	Total/NA
Chromium	35.3		1.56		mg/Kg	5	✳	6020B	Total/NA
Lead	4.72		2.60		mg/Kg	5	✳	6020B	Total/NA

## Client Sample ID: Trip Blank (Soil)

## Lab Sample ID: 310-250925-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-01W (9.67)**

**Lab Sample ID: 310-250925-1**

Date Collected: 03/06/23 12:15

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			03/09/23 13:13	1
Allyl chloride	<2.00		2.00		ug/L			03/08/23 15:15	1
Benzene	<0.500		0.500		ug/L			03/08/23 15:15	1
Bromobenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
Bromochloromethane	<5.00	F2	5.00		ug/L			03/08/23 15:15	1
Bromodichloromethane	<1.00		1.00		ug/L			03/08/23 15:15	1
Bromoform	<5.00		5.00		ug/L			03/08/23 15:15	1
Bromomethane	<4.00		4.00		ug/L			03/08/23 15:15	1
2-Butanone (MEK)	<10.0		10.0		ug/L			03/08/23 15:15	1
Carbon tetrachloride	<2.00		2.00		ug/L			03/08/23 15:15	1
Chlorobenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
Chlorodibromomethane	<5.00		5.00		ug/L			03/08/23 15:15	1
Chloroethane	<4.00		4.00		ug/L			03/08/23 15:15	1
Chloroform	<3.00		3.00		ug/L			03/08/23 15:15	1
Chloromethane	<3.00		3.00		ug/L			03/08/23 15:15	1
2-Chlorotoluene	<1.00		1.00		ug/L			03/08/23 15:15	1
4-Chlorotoluene	<1.00		1.00		ug/L			03/08/23 15:15	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			03/08/23 15:15	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			03/08/23 15:15	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			03/08/23 15:15	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			03/08/23 15:15	1
Dibromomethane	<1.00		1.00		ug/L			03/08/23 15:15	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			03/08/23 15:15	1
1,1-Dichloroethane	<1.00		1.00		ug/L			03/08/23 15:15	1
1,2-Dichloroethane	<1.00		1.00		ug/L			03/08/23 15:15	1
1,1-Dichloroethene	<2.00		2.00		ug/L			03/08/23 15:15	1
Dichlorofluoromethane	<1.00		1.00		ug/L			03/08/23 15:15	1
1,2-Dichloropropane	<1.00		1.00		ug/L			03/08/23 15:15	1
1,3-Dichloropropane	<1.00		1.00		ug/L			03/08/23 15:15	1
2,2-Dichloropropane	<4.00		4.00		ug/L			03/08/23 15:15	1
1,1-Dichloropropene	<1.00		1.00		ug/L			03/08/23 15:15	1
Diethyl ether	<2.00		2.00		ug/L			03/08/23 15:15	1
Ethylbenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
Hexachlorobutadiene	<5.00		5.00		ug/L			03/08/23 15:15	1
Isopropylbenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
Methylene chloride	<5.00		5.00		ug/L			03/08/23 15:15	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			03/08/23 15:15	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			03/08/23 15:15	1
Naphthalene	<5.00		5.00		ug/L			03/08/23 15:15	1
n-Butylbenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
n-Propylbenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
p-Isopropyltoluene	<1.00		1.00		ug/L			03/08/23 15:15	1
sec-Butylbenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
Styrene	<1.00		1.00		ug/L			03/08/23 15:15	1
tert-Butylbenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			03/08/23 15:15	1

Eurofins Cedar Falls

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-01W (9.67)**

**Lab Sample ID: 310-250925-1**

Date Collected: 03/06/23 12:15

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			03/08/23 15:15	1
Tetrachloroethene	<1.00		1.00		ug/L			03/08/23 15:15	1
Tetrahydrofuran	<10.0		10.0		ug/L			03/08/23 15:15	1
Toluene	<1.00		1.00		ug/L			03/08/23 15:15	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			03/08/23 15:15	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			03/08/23 15:15	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			03/08/23 15:15	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			03/08/23 15:15	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			03/08/23 15:15	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			03/08/23 15:15	1
<b>Trichloroethene</b>	<b>5.62</b>		1.00		ug/L			03/08/23 15:15	1
Trichlorofluoromethane	<4.00		4.00		ug/L			03/08/23 15:15	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			03/08/23 15:15	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			03/08/23 15:15	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			03/08/23 15:15	1
Vinyl chloride	<1.00		1.00		ug/L			03/08/23 15:15	1
Xylenes, Total	<3.00		3.00		ug/L			03/08/23 15:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		03/08/23 15:15	1
4-Bromofluorobenzene (Surr)	97		80 - 120		03/09/23 13:13	1
Dibromofluoromethane (Surr)	100		80 - 128		03/08/23 15:15	1
Dibromofluoromethane (Surr)	99		80 - 128		03/09/23 13:13	1
Toluene-d8 (Surr)	105		80 - 120		03/08/23 15:15	1
Toluene-d8 (Surr)	100		80 - 120		03/09/23 13:13	1

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<100		100		ug/L			03/08/23 21:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	80 - 120		03/08/23 21:42	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Diesel Range Organics (DRO)</b>	<b>442</b>		100		ug/L		03/08/23 12:32	03/13/23 09:28	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-02W (8.50)**

**Lab Sample ID: 310-250925-2**

Date Collected: 03/06/23 13:15

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50.0		50.0		ug/L			03/08/23 15:35	5
Allyl chloride	<10.0		10.0		ug/L			03/08/23 15:35	5
Benzene	<2.50		2.50		ug/L			03/08/23 15:35	5
Bromobenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
Bromochloromethane	<25.0		25.0		ug/L			03/08/23 15:35	5
Bromodichloromethane	<5.00		5.00		ug/L			03/08/23 15:35	5
Bromoform	<25.0		25.0		ug/L			03/08/23 15:35	5
Bromomethane	<20.0		20.0		ug/L			03/08/23 15:35	5
2-Butanone (MEK)	<50.0		50.0		ug/L			03/08/23 15:35	5
Carbon tetrachloride	<10.0		10.0		ug/L			03/08/23 15:35	5
Chlorobenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
Chlorodibromomethane	<25.0		25.0		ug/L			03/08/23 15:35	5
Chloroethane	<20.0		20.0		ug/L			03/08/23 15:35	5
Chloroform	<15.0		15.0		ug/L			03/08/23 15:35	5
Chloromethane	<15.0		15.0		ug/L			03/08/23 15:35	5
2-Chlorotoluene	<5.00		5.00		ug/L			03/08/23 15:35	5
4-Chlorotoluene	<5.00		5.00		ug/L			03/08/23 15:35	5
cis-1,2-Dichloroethene	<5.00		5.00		ug/L			03/08/23 15:35	5
cis-1,3-Dichloropropene	<25.0		25.0		ug/L			03/08/23 15:35	5
1,2-Dibromo-3-chloropropane	<25.0		25.0		ug/L			03/08/23 15:35	5
1,2-Dibromoethane (EDB)	<5.00		5.00		ug/L			03/08/23 15:35	5
Dibromomethane	<5.00		5.00		ug/L			03/08/23 15:35	5
1,2-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
1,3-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
1,4-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
Dichlorodifluoromethane	<15.0		15.0		ug/L			03/08/23 15:35	5
1,1-Dichloroethane	<5.00		5.00		ug/L			03/08/23 15:35	5
1,2-Dichloroethane	<5.00		5.00		ug/L			03/08/23 15:35	5
1,1-Dichloroethene	<10.0		10.0		ug/L			03/08/23 15:35	5
Dichlorofluoromethane	<5.00		5.00		ug/L			03/08/23 15:35	5
1,2-Dichloropropane	<5.00		5.00		ug/L			03/08/23 15:35	5
1,3-Dichloropropane	<5.00		5.00		ug/L			03/08/23 15:35	5
2,2-Dichloropropane	<20.0		20.0		ug/L			03/08/23 15:35	5
1,1-Dichloropropene	<5.00		5.00		ug/L			03/08/23 15:35	5
Diethyl ether	<10.0		10.0		ug/L			03/08/23 15:35	5
Ethylbenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
Hexachlorobutadiene	<25.0		25.0		ug/L			03/08/23 15:35	5
Isopropylbenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
Methylene chloride	<25.0		25.0		ug/L			03/08/23 15:35	5
4-Methyl-2-pentanone (MIBK)	<50.0		50.0		ug/L			03/08/23 15:35	5
Methyl tert-butyl ether	<5.00		5.00		ug/L			03/08/23 15:35	5
Naphthalene	<25.0		25.0		ug/L			03/08/23 15:35	5
n-Butylbenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
n-Propylbenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
p-Isopropyltoluene	<5.00		5.00		ug/L			03/08/23 15:35	5
sec-Butylbenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
Styrene	<5.00		5.00		ug/L			03/08/23 15:35	5
tert-Butylbenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
1,1,1,2-Tetrachloroethane	<5.00		5.00		ug/L			03/08/23 15:35	5

Eurofins Cedar Falls

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-02W (8.50)**

**Lab Sample ID: 310-250925-2**

Date Collected: 03/06/23 13:15

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.00		5.00		ug/L			03/08/23 15:35	5
Tetrachloroethene	<5.00		5.00		ug/L			03/08/23 15:35	5
Tetrahydrofuran	<50.0		50.0		ug/L			03/08/23 15:35	5
Toluene	<5.00		5.00		ug/L			03/08/23 15:35	5
trans-1,2-Dichloroethene	<5.00		5.00		ug/L			03/08/23 15:35	5
trans-1,3-Dichloropropene	<25.0		25.0		ug/L			03/08/23 15:35	5
1,2,3-Trichlorobenzene	<25.0		25.0		ug/L			03/08/23 15:35	5
1,2,4-Trichlorobenzene	<25.0		25.0		ug/L			03/08/23 15:35	5
1,1,1-Trichloroethane	<5.00		5.00		ug/L			03/08/23 15:35	5
1,1,2-Trichloroethane	<5.00		5.00		ug/L			03/08/23 15:35	5
Trichloroethene	<5.00		5.00		ug/L			03/08/23 15:35	5
Trichlorofluoromethane	<20.0		20.0		ug/L			03/08/23 15:35	5
1,2,3-Trichloropropane	<5.00		5.00		ug/L			03/08/23 15:35	5
1,1,2-Trichlorotrifluoroethane	<10.0		10.0		ug/L			03/08/23 15:35	5
1,2,4-Trimethylbenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
1,3,5-Trimethylbenzene	<5.00		5.00		ug/L			03/08/23 15:35	5
Vinyl chloride	<5.00		5.00		ug/L			03/08/23 15:35	5
Xylenes, Total	<15.0		15.0		ug/L			03/08/23 15:35	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		03/08/23 15:35	5
Dibromofluoromethane (Surr)	103		80 - 128		03/08/23 15:35	5
Toluene-d8 (Surr)	102		80 - 120		03/08/23 15:35	5

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<500		500		ug/L			03/08/23 23:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120		03/08/23 23:25	5

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	109		104		ug/L		03/08/23 12:32	03/13/23 09:39	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-07W (9.10)**

**Lab Sample ID: 310-250925-3**

Date Collected: 03/06/23 14:00

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0		ug/L			03/08/23 15:56	1
Allyl chloride	<2.00		2.00		ug/L			03/08/23 15:56	1
Benzene	<0.500		0.500		ug/L			03/08/23 15:56	1
Bromobenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
Bromochloromethane	<5.00		5.00		ug/L			03/08/23 15:56	1
Bromodichloromethane	<1.00		1.00		ug/L			03/08/23 15:56	1
Bromoform	<5.00		5.00		ug/L			03/08/23 15:56	1
Bromomethane	<4.00		4.00		ug/L			03/08/23 15:56	1
2-Butanone (MEK)	<10.0		10.0		ug/L			03/08/23 15:56	1
Carbon tetrachloride	<2.00		2.00		ug/L			03/08/23 15:56	1
Chlorobenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
Chlorodibromomethane	<5.00		5.00		ug/L			03/08/23 15:56	1
Chloroethane	<4.00		4.00		ug/L			03/08/23 15:56	1
Chloroform	<3.00		3.00		ug/L			03/08/23 15:56	1
Chloromethane	<3.00		3.00		ug/L			03/08/23 15:56	1
2-Chlorotoluene	<1.00		1.00		ug/L			03/08/23 15:56	1
4-Chlorotoluene	<1.00		1.00		ug/L			03/08/23 15:56	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			03/08/23 15:56	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			03/08/23 15:56	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			03/08/23 15:56	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			03/08/23 15:56	1
Dibromomethane	<1.00		1.00		ug/L			03/08/23 15:56	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			03/08/23 15:56	1
1,1-Dichloroethane	<1.00		1.00		ug/L			03/08/23 15:56	1
1,2-Dichloroethane	<1.00		1.00		ug/L			03/08/23 15:56	1
1,1-Dichloroethene	<2.00		2.00		ug/L			03/08/23 15:56	1
Dichlorofluoromethane	<1.00		1.00		ug/L			03/08/23 15:56	1
1,2-Dichloropropane	<1.00		1.00		ug/L			03/08/23 15:56	1
1,3-Dichloropropane	<1.00		1.00		ug/L			03/08/23 15:56	1
2,2-Dichloropropane	<4.00		4.00		ug/L			03/08/23 15:56	1
1,1-Dichloropropene	<1.00		1.00		ug/L			03/08/23 15:56	1
Diethyl ether	<2.00		2.00		ug/L			03/08/23 15:56	1
Ethylbenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
Hexachlorobutadiene	<5.00		5.00		ug/L			03/08/23 15:56	1
Isopropylbenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
Methylene chloride	<5.00		5.00		ug/L			03/08/23 15:56	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			03/08/23 15:56	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			03/08/23 15:56	1
Naphthalene	<5.00		5.00		ug/L			03/08/23 15:56	1
n-Butylbenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
n-Propylbenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
p-Isopropyltoluene	<1.00		1.00		ug/L			03/08/23 15:56	1
sec-Butylbenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
Styrene	<1.00		1.00		ug/L			03/08/23 15:56	1
tert-Butylbenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			03/08/23 15:56	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-07W (9.10)**

**Lab Sample ID: 310-250925-3**

Date Collected: 03/06/23 14:00

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			03/08/23 15:56	1
Tetrachloroethene	<1.00		1.00		ug/L			03/08/23 15:56	1
Tetrahydrofuran	<10.0		10.0		ug/L			03/08/23 15:56	1
Toluene	<1.00		1.00		ug/L			03/08/23 15:56	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			03/08/23 15:56	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			03/08/23 15:56	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			03/08/23 15:56	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			03/08/23 15:56	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			03/08/23 15:56	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			03/08/23 15:56	1
Trichloroethene	<1.00		1.00		ug/L			03/08/23 15:56	1
Trichlorofluoromethane	<4.00		4.00		ug/L			03/08/23 15:56	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			03/08/23 15:56	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			03/08/23 15:56	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			03/08/23 15:56	1
Vinyl chloride	<1.00		1.00		ug/L			03/08/23 15:56	1
Xylenes, Total	<3.00		3.00		ug/L			03/08/23 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		03/08/23 15:56	1
Dibromofluoromethane (Surr)	102		80 - 128		03/08/23 15:56	1
Toluene-d8 (Surr)	102		80 - 120		03/08/23 15:56	1

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<100		100		ug/L			03/08/23 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		80 - 120		03/08/23 22:08	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	155		104		ug/L		03/08/23 12:32	03/13/23 09:50	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-06W (8.75)**

**Lab Sample ID: 310-250925-4**

Date Collected: 03/06/23 14:20

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50.0		50.0		ug/L			03/08/23 16:16	5
Allyl chloride	<10.0		10.0		ug/L			03/08/23 16:16	5
Benzene	<2.50		2.50		ug/L			03/08/23 16:16	5
Bromobenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
Bromochloromethane	<25.0		25.0		ug/L			03/08/23 16:16	5
Bromodichloromethane	<5.00		5.00		ug/L			03/08/23 16:16	5
Bromoform	<25.0		25.0		ug/L			03/08/23 16:16	5
Bromomethane	<20.0		20.0		ug/L			03/08/23 16:16	5
2-Butanone (MEK)	<50.0		50.0		ug/L			03/08/23 16:16	5
Carbon tetrachloride	<10.0		10.0		ug/L			03/08/23 16:16	5
Chlorobenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
Chlorodibromomethane	<25.0		25.0		ug/L			03/08/23 16:16	5
Chloroethane	<20.0		20.0		ug/L			03/08/23 16:16	5
Chloroform	<15.0		15.0		ug/L			03/08/23 16:16	5
Chloromethane	<15.0		15.0		ug/L			03/08/23 16:16	5
2-Chlorotoluene	<5.00		5.00		ug/L			03/08/23 16:16	5
4-Chlorotoluene	<5.00		5.00		ug/L			03/08/23 16:16	5
cis-1,2-Dichloroethene	<5.00		5.00		ug/L			03/08/23 16:16	5
cis-1,3-Dichloropropene	<25.0		25.0		ug/L			03/08/23 16:16	5
1,2-Dibromo-3-chloropropane	<25.0		25.0		ug/L			03/08/23 16:16	5
1,2-Dibromoethane (EDB)	<5.00		5.00		ug/L			03/08/23 16:16	5
Dibromomethane	<5.00		5.00		ug/L			03/08/23 16:16	5
1,2-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
1,3-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
1,4-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
Dichlorodifluoromethane	<15.0		15.0		ug/L			03/08/23 16:16	5
1,1-Dichloroethane	<5.00		5.00		ug/L			03/08/23 16:16	5
1,2-Dichloroethane	<5.00		5.00		ug/L			03/08/23 16:16	5
1,1-Dichloroethene	<10.0		10.0		ug/L			03/08/23 16:16	5
Dichlorofluoromethane	<5.00		5.00		ug/L			03/08/23 16:16	5
1,2-Dichloropropane	<5.00		5.00		ug/L			03/08/23 16:16	5
1,3-Dichloropropane	<5.00		5.00		ug/L			03/08/23 16:16	5
2,2-Dichloropropane	<20.0		20.0		ug/L			03/08/23 16:16	5
1,1-Dichloropropene	<5.00		5.00		ug/L			03/08/23 16:16	5
Diethyl ether	<10.0		10.0		ug/L			03/08/23 16:16	5
Ethylbenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
Hexachlorobutadiene	<25.0		25.0		ug/L			03/08/23 16:16	5
Isopropylbenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
Methylene chloride	<25.0		25.0		ug/L			03/08/23 16:16	5
4-Methyl-2-pentanone (MIBK)	<50.0		50.0		ug/L			03/08/23 16:16	5
Methyl tert-butyl ether	<5.00		5.00		ug/L			03/08/23 16:16	5
Naphthalene	<25.0		25.0		ug/L			03/08/23 16:16	5
n-Butylbenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
n-Propylbenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
p-Isopropyltoluene	<5.00		5.00		ug/L			03/08/23 16:16	5
sec-Butylbenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
Styrene	<5.00		5.00		ug/L			03/08/23 16:16	5
tert-Butylbenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
1,1,1,2-Tetrachloroethane	<5.00		5.00		ug/L			03/08/23 16:16	5

Eurofins Cedar Falls



# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-06W (8.75)**

**Lab Sample ID: 310-250925-4**

Date Collected: 03/06/23 14:20

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.00		5.00		ug/L			03/08/23 16:16	5
Tetrachloroethene	<5.00		5.00		ug/L			03/08/23 16:16	5
Tetrahydrofuran	<50.0		50.0		ug/L			03/08/23 16:16	5
Toluene	<5.00		5.00		ug/L			03/08/23 16:16	5
trans-1,2-Dichloroethene	<5.00		5.00		ug/L			03/08/23 16:16	5
trans-1,3-Dichloropropene	<25.0		25.0		ug/L			03/08/23 16:16	5
1,2,3-Trichlorobenzene	<25.0		25.0		ug/L			03/08/23 16:16	5
1,2,4-Trichlorobenzene	<25.0		25.0		ug/L			03/08/23 16:16	5
1,1,1-Trichloroethane	<5.00		5.00		ug/L			03/08/23 16:16	5
1,1,2-Trichloroethane	<5.00		5.00		ug/L			03/08/23 16:16	5
Trichloroethene	<5.00		5.00		ug/L			03/08/23 16:16	5
Trichlorofluoromethane	<20.0		20.0		ug/L			03/08/23 16:16	5
1,2,3-Trichloropropane	<5.00		5.00		ug/L			03/08/23 16:16	5
1,1,2-Trichlorotrifluoroethane	<10.0		10.0		ug/L			03/08/23 16:16	5
1,2,4-Trimethylbenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
1,3,5-Trimethylbenzene	<5.00		5.00		ug/L			03/08/23 16:16	5
Vinyl chloride	<5.00		5.00		ug/L			03/08/23 16:16	5
Xylenes, Total	<15.0		15.0		ug/L			03/08/23 16:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120		03/08/23 16:16	5
Dibromofluoromethane (Surr)	99		80 - 128		03/08/23 16:16	5
Toluene-d8 (Surr)	103		80 - 120		03/08/23 16:16	5

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<500		500		ug/L			03/08/23 23:50	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		03/08/23 23:50	5

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<111		111		ug/L		03/08/23 12:32	03/13/23 10:02	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-08W (9.00)**

**Lab Sample ID: 310-250925-5**

Date Collected: 03/06/23 15:45

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50.0		50.0		ug/L			03/08/23 16:36	5
Allyl chloride	<10.0		10.0		ug/L			03/08/23 16:36	5
Benzene	<2.50		2.50		ug/L			03/08/23 16:36	5
Bromobenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
Bromochloromethane	<25.0		25.0		ug/L			03/08/23 16:36	5
Bromodichloromethane	<5.00		5.00		ug/L			03/08/23 16:36	5
Bromoform	<25.0		25.0		ug/L			03/08/23 16:36	5
Bromomethane	<20.0		20.0		ug/L			03/08/23 16:36	5
2-Butanone (MEK)	<50.0		50.0		ug/L			03/08/23 16:36	5
Carbon tetrachloride	<10.0		10.0		ug/L			03/08/23 16:36	5
Chlorobenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
Chlorodibromomethane	<25.0		25.0		ug/L			03/08/23 16:36	5
Chloroethane	<20.0		20.0		ug/L			03/08/23 16:36	5
Chloroform	<15.0		15.0		ug/L			03/08/23 16:36	5
Chloromethane	<15.0		15.0		ug/L			03/08/23 16:36	5
2-Chlorotoluene	<5.00		5.00		ug/L			03/08/23 16:36	5
4-Chlorotoluene	<5.00		5.00		ug/L			03/08/23 16:36	5
cis-1,2-Dichloroethene	<5.00		5.00		ug/L			03/08/23 16:36	5
cis-1,3-Dichloropropene	<25.0		25.0		ug/L			03/08/23 16:36	5
1,2-Dibromo-3-chloropropane	<25.0		25.0		ug/L			03/08/23 16:36	5
1,2-Dibromoethane (EDB)	<5.00		5.00		ug/L			03/08/23 16:36	5
Dibromomethane	<5.00		5.00		ug/L			03/08/23 16:36	5
1,2-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
1,3-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
1,4-Dichlorobenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
Dichlorodifluoromethane	<15.0		15.0		ug/L			03/08/23 16:36	5
1,1-Dichloroethane	<5.00		5.00		ug/L			03/08/23 16:36	5
1,2-Dichloroethane	<5.00		5.00		ug/L			03/08/23 16:36	5
1,1-Dichloroethene	<10.0		10.0		ug/L			03/08/23 16:36	5
Dichlorofluoromethane	<5.00		5.00		ug/L			03/08/23 16:36	5
1,2-Dichloropropane	<5.00		5.00		ug/L			03/08/23 16:36	5
1,3-Dichloropropane	<5.00		5.00		ug/L			03/08/23 16:36	5
2,2-Dichloropropane	<20.0		20.0		ug/L			03/08/23 16:36	5
1,1-Dichloropropene	<5.00		5.00		ug/L			03/08/23 16:36	5
Diethyl ether	<10.0		10.0		ug/L			03/08/23 16:36	5
Ethylbenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
Hexachlorobutadiene	<25.0		25.0		ug/L			03/08/23 16:36	5
Isopropylbenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
Methylene chloride	<25.0		25.0		ug/L			03/08/23 16:36	5
4-Methyl-2-pentanone (MIBK)	<50.0		50.0		ug/L			03/08/23 16:36	5
Methyl tert-butyl ether	<5.00		5.00		ug/L			03/08/23 16:36	5
Naphthalene	<25.0		25.0		ug/L			03/08/23 16:36	5
n-Butylbenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
n-Propylbenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
p-Isopropyltoluene	<5.00		5.00		ug/L			03/08/23 16:36	5
sec-Butylbenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
Styrene	<5.00		5.00		ug/L			03/08/23 16:36	5
tert-Butylbenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
1,1,1,2-Tetrachloroethane	<5.00		5.00		ug/L			03/08/23 16:36	5

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-08W (9.00)**

**Lab Sample ID: 310-250925-5**

Date Collected: 03/06/23 15:45

Matrix: Water

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.00		5.00		ug/L			03/08/23 16:36	5
Tetrachloroethene	<5.00		5.00		ug/L			03/08/23 16:36	5
Tetrahydrofuran	<50.0		50.0		ug/L			03/08/23 16:36	5
Toluene	<5.00		5.00		ug/L			03/08/23 16:36	5
trans-1,2-Dichloroethene	<5.00		5.00		ug/L			03/08/23 16:36	5
trans-1,3-Dichloropropene	<25.0		25.0		ug/L			03/08/23 16:36	5
1,2,3-Trichlorobenzene	<25.0		25.0		ug/L			03/08/23 16:36	5
1,2,4-Trichlorobenzene	<25.0		25.0		ug/L			03/08/23 16:36	5
1,1,1-Trichloroethane	<5.00		5.00		ug/L			03/08/23 16:36	5
1,1,2-Trichloroethane	<5.00		5.00		ug/L			03/08/23 16:36	5
Trichloroethene	<5.00		5.00		ug/L			03/08/23 16:36	5
Trichlorofluoromethane	<20.0		20.0		ug/L			03/08/23 16:36	5
1,2,3-Trichloropropane	<5.00		5.00		ug/L			03/08/23 16:36	5
1,1,2-Trichlorotrifluoroethane	<10.0		10.0		ug/L			03/08/23 16:36	5
1,2,4-Trimethylbenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
1,3,5-Trimethylbenzene	<5.00		5.00		ug/L			03/08/23 16:36	5
Vinyl chloride	<5.00		5.00		ug/L			03/08/23 16:36	5
Xylenes, Total	<15.0		15.0		ug/L			03/08/23 16:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120		03/08/23 16:36	5
Dibromofluoromethane (Surr)	98		80 - 128		03/08/23 16:36	5
Toluene-d8 (Surr)	100		80 - 120		03/08/23 16:36	5

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<500		500		ug/L			03/09/23 00:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		80 - 120		03/09/23 00:16	5

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	198		179		ug/L		03/08/23 12:32	03/13/23 10:43	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-05 (1.5-2.5)**

**Lab Sample ID: 310-250925-6**

Date Collected: 03/06/23 09:30

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 83.7

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.709		0.709		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Allyl chloride	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Benzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Bromobenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Bromochloromethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Bromodichloromethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Bromoform	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Bromomethane	<0.709		0.709		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
2-Butanone (MEK)	<1.06		1.06		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Carbon tetrachloride	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Chlorobenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Chlorodibromomethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Chloroethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Chloroform	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Chloromethane	<0.354		0.354		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
2-Chlorotoluene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
4-Chlorotoluene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
cis-1,2-Dichloroethene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
cis-1,3-Dichloropropene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,2-Dibromo-3-chloropropane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,2-Dibromoethane (EDB)	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Dibromomethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,2-Dichlorobenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,3-Dichlorobenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,4-Dichlorobenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Dichlorodifluoromethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,1-Dichloroethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,2-Dichloroethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,1-Dichloroethene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Dichlorofluoromethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,2-Dichloropropane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,3-Dichloropropane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
2,2-Dichloropropane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,1-Dichloropropene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Diethyl ether	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Ethylbenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Hexachlorobutadiene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Isopropylbenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Methylene chloride	<0.354		0.354		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
4-Methyl-2-pentanone (MIBK)	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Methyl tert-butyl ether	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Naphthalene	<0.354		0.354		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
n-Butylbenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
n-Propylbenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
p-Isopropyltoluene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
sec-Butylbenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
Styrene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
tert-Butylbenzene	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1
1,1,1,2-Tetrachloroethane	<0.142		0.142		mg/Kg	✱	03/09/23 06:45	03/10/23 17:02	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-05 (1.5-2.5)**

**Lab Sample ID: 310-250925-6**

Date Collected: 03/06/23 09:30

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 83.7

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
Tetrachloroethene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
Tetrahydrofuran	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
Toluene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
trans-1,2-Dichloroethene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
trans-1,3-Dichloropropene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
1,2,3-Trichlorobenzene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
1,2,4-Trichlorobenzene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
1,1,1-Trichloroethane	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
1,1,2-Trichloroethane	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
Trichloroethene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
Trichlorofluoromethane	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
1,2,3-Trichloropropane	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
1,1,2-Trichlorotrifluoroethane	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
1,2,4-Trimethylbenzene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
1,3,5-Trimethylbenzene	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
Vinyl chloride	<0.142		0.142		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
Xylenes, Total	<0.213		0.213		mg/Kg	☼	03/09/23 06:45	03/10/23 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120				03/09/23 06:45	03/10/23 17:02	1
Dibromofluoromethane (Surr)	99		80 - 120				03/09/23 06:45	03/10/23 17:02	1
Toluene-d8 (Surr)	102		80 - 120				03/09/23 06:45	03/10/23 17:02	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0525		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Acenaphthylene	<0.0113		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Anthracene	0.0513		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Benzo(a)anthracene	0.117		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Benzo(a)pyrene	0.114		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Benzo(b)fluoranthene	0.147		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Benzo(g,h,i)perylene	0.0617		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Benzo(k)fluoranthene	0.0476		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Chrysene	0.120		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Dibenz(a,h)anthracene	0.0149		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Fluoranthene	0.264		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Fluorene	0.0428		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Indeno(1,2,3-cd)pyrene	0.0732		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
2-Methylnaphthalene	<0.0113		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Naphthalene	0.0267		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Phenanthrene	0.271		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Pyrene	0.204		0.0113		mg/Kg	☼	03/09/23 09:21	03/15/23 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	54		20 - 110				03/09/23 09:21	03/15/23 13:02	1
Nitrobenzene-d5 (Surr)	69		11 - 116				03/09/23 09:21	03/15/23 13:02	1
Terphenyl-d14 (Surr)	64		18 - 110				03/09/23 09:21	03/15/23 13:02	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-05 (1.5-2.5)**

**Lab Sample ID: 310-250925-6**

Date Collected: 03/06/23 09:30

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 83.7

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<12.2		12.2		mg/Kg	☼	03/09/23 17:36	03/10/23 00:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	98		80 - 120				03/09/23 17:36	03/10/23 00:53	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<6.59		6.59		mg/Kg	☼	03/09/23 09:19	03/13/23 09:55	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Arsenic</b>	<b>2.90</b>		0.883		mg/Kg	☼	03/14/23 10:30	03/14/23 16:59	5
<b>Barium</b>	<b>52.6</b>		0.883		mg/Kg	☼	03/14/23 10:30	03/14/23 16:59	5
Cadmium	<0.442		0.442		mg/Kg	☼	03/14/23 10:30	03/14/23 16:59	5
<b>Chromium</b>	<b>32.4</b>		1.33		mg/Kg	☼	03/14/23 10:30	03/14/23 16:59	5
<b>Lead</b>	<b>6.52</b>		2.21		mg/Kg	☼	03/14/23 10:30	03/14/23 16:59	5
<b>Selenium</b>	<b>1.50</b>		1.33		mg/Kg	☼	03/14/23 10:30	03/14/23 16:59	5
Silver	<0.221		0.221		mg/Kg	☼	03/14/23 10:30	03/14/23 16:59	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0208		0.0208		mg/Kg	☼	03/13/23 12:01	03/14/23 15:53	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	<b>16.3</b>		0.1		%			03/08/23 17:30	1
Percent Solids (EPA Moisture)	<b>83.7</b>		0.1		%			03/08/23 17:30	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-03 (1.5-2.5)**

**Lab Sample ID: 310-250925-7**

Date Collected: 03/06/23 10:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 92.1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.527		0.527		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Allyl chloride	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Benzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Bromobenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Bromochloromethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Bromodichloromethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Bromoform	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Bromomethane	<0.527		0.527		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
2-Butanone (MEK)	<0.790		0.790		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Carbon tetrachloride	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Chlorobenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Chlorodibromomethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Chloroethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Chloroform	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Chloromethane	<0.263		0.263		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
2-Chlorotoluene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
4-Chlorotoluene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
cis-1,2-Dichloroethene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
cis-1,3-Dichloropropene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,2-Dibromo-3-chloropropane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,2-Dibromoethane (EDB)	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Dibromomethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,2-Dichlorobenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,3-Dichlorobenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,4-Dichlorobenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Dichlorodifluoromethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,1-Dichloroethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,2-Dichloroethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,1-Dichloroethene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Dichlorofluoromethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,2-Dichloropropane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,3-Dichloropropane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
2,2-Dichloropropane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,1-Dichloropropene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Diethyl ether	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Ethylbenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Hexachlorobutadiene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Isopropylbenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Methylene chloride	<0.263		0.263		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
4-Methyl-2-pentanone (MIBK)	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Methyl tert-butyl ether	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Naphthalene	<0.263		0.263		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
n-Butylbenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
n-Propylbenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
p-Isopropyltoluene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
sec-Butylbenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
Styrene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
tert-Butylbenzene	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1
1,1,1,2-Tetrachloroethane	<0.105		0.105		mg/Kg	✳	03/09/23 06:45	03/10/23 17:26	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-03 (1.5-2.5)**

**Lab Sample ID: 310-250925-7**

Date Collected: 03/06/23 10:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 92.1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
Tetrachloroethene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
Tetrahydrofuran	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
Toluene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
trans-1,2-Dichloroethene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
trans-1,3-Dichloropropene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
1,2,3-Trichlorobenzene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
1,2,4-Trichlorobenzene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
1,1,1-Trichloroethane	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
1,1,2-Trichloroethane	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
Trichloroethene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
Trichlorofluoromethane	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
1,2,3-Trichloropropane	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
1,1,2-Trichlorotrifluoroethane	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
1,2,4-Trimethylbenzene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
1,3,5-Trimethylbenzene	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
Vinyl chloride	<0.105		0.105		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1
Xylenes, Total	<0.158		0.158		mg/Kg	☼	03/09/23 06:45	03/10/23 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120	03/09/23 06:45	03/10/23 17:26	1
Dibromofluoromethane (Surr)	102		80 - 120	03/09/23 06:45	03/10/23 17:26	1
Toluene-d8 (Surr)	99		80 - 120	03/09/23 06:45	03/10/23 17:26	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
Acenaphthylene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
Anthracene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
<b>Benzo(a)anthracene</b>	<b>0.0155</b>		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
<b>Benzo(a)pyrene</b>	<b>0.0155</b>		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
<b>Benzo(b)fluoranthene</b>	<b>0.0224</b>		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
Benzo(g,h,i)perylene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
Benzo(k)fluoranthene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
<b>Chrysene</b>	<b>0.0181</b>		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
Dibenz(a,h)anthracene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
<b>Fluoranthene</b>	<b>0.0310</b>		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
Fluorene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>0.0117</b>		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
2-Methylnaphthalene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
Naphthalene	<0.0102		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
<b>Phenanthrene</b>	<b>0.0199</b>		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1
<b>Pyrene</b>	<b>0.0235</b>		0.0102		mg/Kg	☼	03/09/23 09:21	03/14/23 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		20 - 110	03/09/23 09:21	03/14/23 19:34	1
Nitrobenzene-d5 (Surr)	79		11 - 116	03/09/23 09:21	03/14/23 19:34	1
Terphenyl-d14 (Surr)	73		18 - 110	03/09/23 09:21	03/14/23 19:34	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-03 (1.5-2.5)**

**Lab Sample ID: 310-250925-7**

Date Collected: 03/06/23 10:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 92.1

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<9.68		9.68		mg/Kg	☼	03/09/23 17:36	03/10/23 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120				03/09/23 17:36	03/10/23 01:24	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.36		5.36		mg/Kg	☼	03/09/23 09:19	03/13/23 10:07	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.05		1.04		mg/Kg	☼	03/14/23 10:30	03/14/23 17:02	5
Barium	52.3		1.04		mg/Kg	☼	03/14/23 10:30	03/14/23 17:02	5
Cadmium	<0.521		0.521		mg/Kg	☼	03/14/23 10:30	03/14/23 17:02	5
Chromium	27.0		1.56		mg/Kg	☼	03/14/23 10:30	03/14/23 17:02	5
Lead	7.10		2.61		mg/Kg	☼	03/14/23 10:30	03/14/23 17:02	5
Selenium	<1.56		1.56		mg/Kg	☼	03/14/23 10:30	03/14/23 17:02	5
Silver	<0.261		0.261		mg/Kg	☼	03/14/23 10:30	03/14/23 17:02	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0195		0.0170		mg/Kg	☼	03/13/23 12:01	03/14/23 15:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	7.9		0.1		%			03/08/23 17:30	1
Percent Solids (EPA Moisture)	92.1		0.1		%			03/08/23 17:30	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-04 (2-3)**

**Lab Sample ID: 310-250925-8**

Date Collected: 03/06/23 11:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 87.0

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.645		0.645		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Allyl chloride	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Benzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Bromobenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Bromochloromethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Bromodichloromethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Bromoform	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Bromomethane	<0.645		0.645		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
2-Butanone (MEK)	<0.968		0.968		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Carbon tetrachloride	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Chlorobenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Chlorodibromomethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Chloroethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Chloroform	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Chloromethane	<0.323		0.323		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
2-Chlorotoluene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
4-Chlorotoluene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
cis-1,2-Dichloroethene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
cis-1,3-Dichloropropene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,2-Dibromo-3-chloropropane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,2-Dibromoethane (EDB)	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Dibromomethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,2-Dichlorobenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,3-Dichlorobenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,4-Dichlorobenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Dichlorodifluoromethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,1-Dichloroethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,2-Dichloroethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,1-Dichloroethene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Dichlorofluoromethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,2-Dichloropropane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,3-Dichloropropane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
2,2-Dichloropropane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,1-Dichloropropene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Diethyl ether	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Ethylbenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Hexachlorobutadiene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Isopropylbenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Methylene chloride	<0.323		0.323		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
4-Methyl-2-pentanone (MIBK)	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Methyl tert-butyl ether	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Naphthalene	<0.323		0.323		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
n-Butylbenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
n-Propylbenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
p-Isopropyltoluene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
sec-Butylbenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
Styrene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
tert-Butylbenzene	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1
1,1,1,2-Tetrachloroethane	<0.129		0.129		mg/Kg	✳	03/09/23 06:45	03/10/23 17:51	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

**Client Sample ID: B-04 (2-3)**

**Lab Sample ID: 310-250925-8**

Date Collected: 03/06/23 11:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 87.0

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
Tetrachloroethene	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
Tetrahydrofuran	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
<b>Toluene</b>	<b>0.251</b>		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
trans-1,2-Dichloroethene	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
trans-1,3-Dichloropropene	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
1,2,3-Trichlorobenzene	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
1,2,4-Trichlorobenzene	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
1,1,1-Trichloroethane	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
1,1,2-Trichloroethane	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
Trichloroethene	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
Trichlorofluoromethane	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
1,2,3-Trichloropropane	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
1,1,2-Trichlorotrifluoroethane	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.274</b>		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
1,3,5-Trimethylbenzene	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
Vinyl chloride	<0.129		0.129		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
<b>Xylenes, Total</b>	<b>0.484</b>		0.194		mg/Kg	☼	03/09/23 06:45	03/10/23 17:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	94		80 - 120				03/09/23 06:45	03/10/23 17:51	1
Dibromofluoromethane (Surr)	102		80 - 120				03/09/23 06:45	03/10/23 17:51	1
Toluene-d8 (Surr)	100		80 - 120				03/09/23 06:45	03/10/23 17:51	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Acenaphthylene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Anthracene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Benzo(a)anthracene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Benzo(a)pyrene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Benzo(b)fluoranthene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Benzo(g,h,i)perylene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Benzo(k)fluoranthene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Chrysene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Dibenz(a,h)anthracene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Fluoranthene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Fluorene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Indeno(1,2,3-cd)pyrene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
2-Methylnaphthalene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Naphthalene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Phenanthrene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
Pyrene	<0.0111		0.0111		mg/Kg	☼	03/09/23 09:21	03/14/23 19:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	54		20 - 110				03/09/23 09:21	03/14/23 19:53	1
Nitrobenzene-d5 (Surr)	67		11 - 116				03/09/23 09:21	03/14/23 19:53	1
Terphenyl-d14 (Surr)	65		18 - 110				03/09/23 09:21	03/14/23 19:53	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-04 (2-3)**

**Lab Sample ID: 310-250925-8**

Date Collected: 03/06/23 11:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 87.0

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<11.4		11.4		mg/Kg	☼	03/09/23 17:36	03/10/23 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120				03/09/23 17:36	03/10/23 01:54	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<6.18		6.18		mg/Kg	☼	03/09/23 09:19	03/13/23 10:45	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.99		0.911		mg/Kg	☼	03/14/23 10:30	03/14/23 17:07	5
Barium	54.2		0.911		mg/Kg	☼	03/14/23 10:30	03/14/23 17:07	5
Cadmium	<0.455		0.455		mg/Kg	☼	03/14/23 10:30	03/14/23 17:07	5
Chromium	25.7		1.37		mg/Kg	☼	03/14/23 10:30	03/14/23 17:07	5
Lead	5.11		2.28		mg/Kg	☼	03/14/23 10:30	03/14/23 17:07	5
Selenium	<1.37		1.37		mg/Kg	☼	03/14/23 10:30	03/14/23 17:07	5
Silver	<0.228		0.228		mg/Kg	☼	03/14/23 10:30	03/14/23 17:07	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0194		0.0194		mg/Kg	☼	03/13/23 12:01	03/14/23 15:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	13.0		0.1		%			03/08/23 17:30	1
Percent Solids (EPA Moisture)	87.0		0.1		%			03/08/23 17:30	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-01 (5-6)**

**Lab Sample ID: 310-250925-9**

Date Collected: 03/06/23 12:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 83.9

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.690		0.690		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Allyl chloride	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Benzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Bromobenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Bromochloromethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Bromodichloromethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Bromoform	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Bromomethane	<0.690		0.690		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
2-Butanone (MEK)	<1.04		1.04		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Carbon tetrachloride	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Chlorobenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Chlorodibromomethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Chloroethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Chloroform	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Chloromethane	<0.345		0.345		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
2-Chlorotoluene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
4-Chlorotoluene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
cis-1,2-Dichloroethene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
cis-1,3-Dichloropropene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,2-Dibromo-3-chloropropane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,2-Dibromoethane (EDB)	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Dibromomethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,2-Dichlorobenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,3-Dichlorobenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,4-Dichlorobenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Dichlorodifluoromethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,1-Dichloroethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,2-Dichloroethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,1-Dichloroethene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Dichlorofluoromethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,2-Dichloropropane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,3-Dichloropropane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
2,2-Dichloropropane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,1-Dichloropropene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Diethyl ether	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Ethylbenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Hexachlorobutadiene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Isopropylbenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Methylene chloride	<0.345		0.345		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
4-Methyl-2-pentanone (MIBK)	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Methyl tert-butyl ether	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Naphthalene	<0.345		0.345		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
n-Butylbenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
n-Propylbenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
p-Isopropyltoluene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
sec-Butylbenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
Styrene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
tert-Butylbenzene	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1
1,1,1,2-Tetrachloroethane	<0.138		0.138		mg/Kg	✱	03/09/23 06:45	03/10/23 18:15	1

Eurofins Cedar Falls

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

**Client Sample ID: B-01 (5-6)**

**Lab Sample ID: 310-250925-9**

Date Collected: 03/06/23 12:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 83.9

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
Tetrachloroethene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
Tetrahydrofuran	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
Toluene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
trans-1,2-Dichloroethene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
trans-1,3-Dichloropropene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
1,2,3-Trichlorobenzene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
1,2,4-Trichlorobenzene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
1,1,1-Trichloroethane	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
1,1,2-Trichloroethane	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
Trichloroethene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
Trichlorofluoromethane	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
1,2,3-Trichloropropane	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
1,1,2-Trichlorotrifluoroethane	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
1,2,4-Trimethylbenzene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
1,3,5-Trimethylbenzene	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
Vinyl chloride	<0.138		0.138		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1
Xylenes, Total	<0.207		0.207		mg/Kg	☼	03/09/23 06:45	03/10/23 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120	03/09/23 06:45	03/10/23 18:15	1
Dibromofluoromethane (Surr)	98		80 - 120	03/09/23 06:45	03/10/23 18:15	1
Toluene-d8 (Surr)	101		80 - 120	03/09/23 06:45	03/10/23 18:15	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Acenaphthylene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Anthracene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Benzo(a)anthracene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Benzo(a)pyrene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Benzo(b)fluoranthene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Benzo(g,h,i)perylene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Benzo(k)fluoranthene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Chrysene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Dibenz(a,h)anthracene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Fluoranthene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Fluorene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Indeno(1,2,3-cd)pyrene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
2-Methylnaphthalene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Naphthalene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Phenanthrene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1
Pyrene	<0.0118		0.0118		mg/Kg	☼	03/09/23 09:21	03/14/23 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		20 - 110	03/09/23 09:21	03/14/23 20:12	1
Nitrobenzene-d5 (Surr)	88		11 - 116	03/09/23 09:21	03/14/23 20:12	1
Terphenyl-d14 (Surr)	84		18 - 110	03/09/23 09:21	03/14/23 20:12	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-01 (5-6)**

**Lab Sample ID: 310-250925-9**

Date Collected: 03/06/23 12:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 83.9

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<11.9		11.9		mg/Kg	☼	03/09/23 17:36	03/10/23 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120				03/09/23 17:36	03/10/23 02:25	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.15		5.15		mg/Kg	☼	03/09/23 09:19	03/13/23 10:56	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.49		1.07		mg/Kg	☼	03/14/23 10:30	03/14/23 17:10	5
Barium	57.2		1.07		mg/Kg	☼	03/14/23 10:30	03/14/23 17:10	5
Cadmium	<0.536		0.536		mg/Kg	☼	03/14/23 10:30	03/14/23 17:10	5
Chromium	28.6		1.61		mg/Kg	☼	03/14/23 10:30	03/14/23 17:10	5
Lead	5.72		2.68		mg/Kg	☼	03/14/23 10:30	03/14/23 17:10	5
Selenium	<1.61		1.61		mg/Kg	☼	03/14/23 10:30	03/14/23 17:10	5
Silver	<0.268		0.268		mg/Kg	☼	03/14/23 10:30	03/14/23 17:10	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0218		0.0218		mg/Kg	☼	03/13/23 12:01	03/14/23 15:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	16.1		0.1		%			03/08/23 17:30	1
Percent Solids (EPA Moisture)	83.9		0.1		%			03/08/23 17:30	1



# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-02 (3-4)**

**Lab Sample ID: 310-250925-10**

Date Collected: 03/06/23 12:30

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 85.3

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.650		0.650		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Allyl chloride	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Benzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Bromobenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Bromochloromethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Bromodichloromethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Bromoform	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Bromomethane	<0.650		0.650		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
2-Butanone (MEK)	<0.975		0.975		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Carbon tetrachloride	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Chlorobenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Chlorodibromomethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Chloroethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Chloroform	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Chloromethane	<0.325		0.325		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
2-Chlorotoluene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
4-Chlorotoluene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
cis-1,2-Dichloroethene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
cis-1,3-Dichloropropene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2-Dibromo-3-chloropropane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2-Dibromoethane (EDB)	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Dibromomethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2-Dichlorobenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,3-Dichlorobenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,4-Dichlorobenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Dichlorodifluoromethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,1-Dichloroethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2-Dichloroethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,1-Dichloroethene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Dichlorofluoromethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2-Dichloropropane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,3-Dichloropropane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
2,2-Dichloropropane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,1-Dichloropropene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Diethyl ether	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Ethylbenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Hexachlorobutadiene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Isopropylbenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Methylene chloride	<0.325		0.325		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
4-Methyl-2-pentanone (MIBK)	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Methyl tert-butyl ether	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Naphthalene	<0.325		0.325		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
n-Butylbenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
n-Propylbenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
p-Isopropyltoluene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
sec-Butylbenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Styrene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
tert-Butylbenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,1,1,2-Tetrachloroethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

**Client Sample ID: B-02 (3-4)**

**Lab Sample ID: 310-250925-10**

Date Collected: 03/06/23 12:30

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 85.3

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Tetrachloroethene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Tetrahydrofuran	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Toluene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
trans-1,2-Dichloroethene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
trans-1,3-Dichloropropene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2,3-Trichlorobenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2,4-Trichlorobenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,1,1-Trichloroethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,1,2-Trichloroethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Trichloroethene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Trichlorofluoromethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2,3-Trichloropropane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,1,2-Trichlorotrifluoroethane	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,2,4-Trimethylbenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
1,3,5-Trimethylbenzene	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Vinyl chloride	<0.130		0.130		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Xylenes, Total	<0.195		0.195		mg/Kg	✱	03/09/23 06:45	03/10/23 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120				03/09/23 06:45	03/10/23 18:39	1
Dibromofluoromethane (Surr)	99		80 - 120				03/09/23 06:45	03/10/23 18:39	1
Toluene-d8 (Surr)	100		80 - 120				03/09/23 06:45	03/10/23 18:39	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0573		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
Acenaphthylene	<0.0573		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
Anthracene	<0.0573		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Benzo(a)anthracene</b>	<b>0.116</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Benzo(a)pyrene</b>	<b>0.126</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Benzo(b)fluoranthene</b>	<b>0.198</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Benzo(g,h,i)perylene</b>	<b>0.101</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Benzo(k)fluoranthene</b>	<b>0.0736</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Chrysene</b>	<b>0.147</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
Dibenz(a,h)anthracene	<0.0573		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Fluoranthene</b>	<b>0.228</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
Fluorene	<0.0573		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Indeno(1,2,3-cd)pyrene</b>	<b>0.120</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
2-Methylnaphthalene	<0.0573		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
Naphthalene	<0.0573		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Phenanthrene</b>	<b>0.124</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
<b>Pyrene</b>	<b>0.174</b>		0.0573		mg/Kg	✱	03/09/23 09:21	03/14/23 18:55	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		20 - 110				03/09/23 09:21	03/14/23 18:55	5
Nitrobenzene-d5 (Surr)	73		11 - 116				03/09/23 09:21	03/14/23 18:55	5
Terphenyl-d14 (Surr)	78		18 - 110				03/09/23 09:21	03/14/23 18:55	5

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-02 (3-4)**

**Lab Sample ID: 310-250925-10**

Date Collected: 03/06/23 12:30

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 85.3

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<11.3		11.3		mg/Kg	☼	03/09/23 17:36	03/10/23 02:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120				03/09/23 17:36	03/10/23 02:55	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.94		5.94		mg/Kg	☼	03/09/23 09:19	03/13/23 11:08	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.38		0.908		mg/Kg	☼	03/14/23 10:30	03/14/23 17:13	5
Barium	67.5		0.908		mg/Kg	☼	03/14/23 10:30	03/14/23 17:13	5
Cadmium	<0.454		0.454		mg/Kg	☼	03/14/23 10:30	03/14/23 17:13	5
Chromium	29.4		1.36		mg/Kg	☼	03/14/23 10:30	03/14/23 17:13	5
Lead	11.9		2.27		mg/Kg	☼	03/14/23 10:30	03/14/23 17:13	5
Selenium	<1.36		1.36		mg/Kg	☼	03/14/23 10:30	03/14/23 17:13	5
Silver	<0.227		0.227		mg/Kg	☼	03/14/23 10:30	03/14/23 17:13	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0217		0.0217		mg/Kg	☼	03/13/23 12:01	03/14/23 16:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	14.7		0.1		%			03/08/23 17:30	1
Percent Solids (EPA Moisture)	85.3		0.1		%			03/08/23 17:30	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-07 (2.5-3.5)**

**Lab Sample ID: 310-250925-11**

Date Collected: 03/06/23 13:20

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 89.5

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.627		0.627		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Allyl chloride	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Benzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Bromobenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Bromochloromethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Bromodichloromethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Bromoform	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Bromomethane	<0.627		0.627		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
2-Butanone (MEK)	<0.941		0.941		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Carbon tetrachloride	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Chlorobenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Chlorodibromomethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Chloroethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Chloroform	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Chloromethane	<0.314		0.314		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
2-Chlorotoluene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
4-Chlorotoluene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
cis-1,2-Dichloroethene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
cis-1,3-Dichloropropene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,2-Dibromo-3-chloropropane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,2-Dibromoethane (EDB)	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Dibromomethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,2-Dichlorobenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,3-Dichlorobenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,4-Dichlorobenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Dichlorodifluoromethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,1-Dichloroethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,2-Dichloroethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,1-Dichloroethene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Dichlorofluoromethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,2-Dichloropropane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,3-Dichloropropane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
2,2-Dichloropropane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,1-Dichloropropene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Diethyl ether	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Ethylbenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Hexachlorobutadiene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Isopropylbenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Methylene chloride	<0.314		0.314		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
4-Methyl-2-pentanone (MIBK)	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Methyl tert-butyl ether	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Naphthalene	<0.314		0.314		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
n-Butylbenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
n-Propylbenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
p-Isopropyltoluene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
sec-Butylbenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
Styrene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
tert-Butylbenzene	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1
1,1,1,2-Tetrachloroethane	<0.125		0.125		mg/Kg	✳	03/09/23 06:45	03/10/23 19:03	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

**Client Sample ID: B-07 (2.5-3.5)**

**Lab Sample ID: 310-250925-11**

Date Collected: 03/06/23 13:20

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 89.5

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
Tetrachloroethene	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
Tetrahydrofuran	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
<b>Toluene</b>	<b>0.310</b>		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
trans-1,2-Dichloroethene	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
trans-1,3-Dichloropropene	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
1,2,3-Trichlorobenzene	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
1,2,4-Trichlorobenzene	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
1,1,1-Trichloroethane	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
1,1,2-Trichloroethane	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
Trichloroethene	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
Trichlorofluoromethane	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
1,2,3-Trichloropropane	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
1,1,2-Trichlorotrifluoroethane	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
1,2,4-Trimethylbenzene	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
1,3,5-Trimethylbenzene	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
Vinyl chloride	<0.125		0.125		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
Xylenes, Total	<0.188		0.188		mg/Kg	☼	03/09/23 06:45	03/10/23 19:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		80 - 120				03/09/23 06:45	03/10/23 19:03	1
Dibromofluoromethane (Surr)	104		80 - 120				03/09/23 06:45	03/10/23 19:03	1
Toluene-d8 (Surr)	100		80 - 120				03/09/23 06:45	03/10/23 19:03	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Acenaphthylene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Anthracene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Benzo(a)anthracene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Benzo(a)pyrene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
<b>Benzo(b)fluoranthene</b>	<b>0.0107</b>		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Benzo(g,h,i)perylene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Benzo(k)fluoranthene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Chrysene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Dibenz(a,h)anthracene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
<b>Fluoranthene</b>	<b>0.0126</b>		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Fluorene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Indeno(1,2,3-cd)pyrene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
2-Methylnaphthalene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Naphthalene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Phenanthrene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
Pyrene	<0.0107		0.0107		mg/Kg	☼	03/09/23 09:21	03/15/23 13:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	60		20 - 110				03/09/23 09:21	03/15/23 13:22	1
Nitrobenzene-d5 (Surr)	71		11 - 116				03/09/23 09:21	03/15/23 13:22	1
Terphenyl-d14 (Surr)	63		18 - 110				03/09/23 09:21	03/15/23 13:22	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-07 (2.5-3.5)**

**Lab Sample ID: 310-250925-11**

Date Collected: 03/06/23 13:20

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 89.5

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<11.4		11.4		mg/Kg	☼	03/09/23 17:36	03/10/23 03:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120				03/09/23 17:36	03/10/23 03:26	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<3.93		3.93		mg/Kg	☼	03/09/23 09:19	03/13/23 11:19	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.97		0.917		mg/Kg	☼	03/14/23 10:30	03/14/23 17:17	5
Barium	46.6		0.917		mg/Kg	☼	03/14/23 10:30	03/14/23 17:17	5
Cadmium	<0.458		0.458		mg/Kg	☼	03/14/23 10:30	03/14/23 17:17	5
Chromium	26.7		1.38		mg/Kg	☼	03/14/23 10:30	03/14/23 17:17	5
Lead	5.22		2.29		mg/Kg	☼	03/14/23 10:30	03/14/23 17:17	5
Selenium	<1.38		1.38		mg/Kg	☼	03/14/23 10:30	03/14/23 17:17	5
Silver	<0.229		0.229		mg/Kg	☼	03/14/23 10:30	03/14/23 17:17	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0214		0.0214		mg/Kg	☼	03/13/23 12:01	03/14/23 16:04	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.5		0.1		%			03/08/23 17:30	1
Percent Solids (EPA Moisture)	89.5		0.1		%			03/08/23 17:30	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-06 (5-6)**

**Lab Sample ID: 310-250925-12**

Date Collected: 03/06/23 14:15

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 88.9

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.610		0.610		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Allyl chloride	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Benzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Bromobenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Bromochloromethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Bromodichloromethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Bromoform	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Bromomethane	<0.610		0.610		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
2-Butanone (MEK)	<0.916		0.916		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Carbon tetrachloride	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Chlorobenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Chlorodibromomethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Chloroethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Chloroform	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Chloromethane	<0.305		0.305		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
2-Chlorotoluene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
4-Chlorotoluene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
cis-1,2-Dichloroethene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
cis-1,3-Dichloropropene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,2-Dibromo-3-chloropropane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,2-Dibromoethane (EDB)	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Dibromomethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,2-Dichlorobenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,3-Dichlorobenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,4-Dichlorobenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Dichlorodifluoromethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,1-Dichloroethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,2-Dichloroethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,1-Dichloroethene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Dichlorofluoromethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,2-Dichloropropane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,3-Dichloropropane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
2,2-Dichloropropane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,1-Dichloropropene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Diethyl ether	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Ethylbenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Hexachlorobutadiene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Isopropylbenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Methylene chloride	<0.305		0.305		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
4-Methyl-2-pentanone (MIBK)	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Methyl tert-butyl ether	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Naphthalene	<0.305		0.305		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
n-Butylbenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
n-Propylbenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
p-Isopropyltoluene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
sec-Butylbenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
Styrene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
tert-Butylbenzene	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1
1,1,1,2-Tetrachloroethane	<0.122		0.122		mg/Kg	✱	03/09/23 06:45	03/10/23 19:27	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-06 (5-6)**

**Lab Sample ID: 310-250925-12**

Date Collected: 03/06/23 14:15

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 88.9

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
Tetrachloroethene	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
Tetrahydrofuran	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
Toluene	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
trans-1,2-Dichloroethene	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
trans-1,3-Dichloropropene	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
1,2,3-Trichlorobenzene	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
1,2,4-Trichlorobenzene	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
1,1,1-Trichloroethane	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
1,1,2-Trichloroethane	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
Trichloroethene	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
Trichlorofluoromethane	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
1,2,3-Trichloropropane	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
1,1,2-Trichlorotrifluoroethane	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.298</b>		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
1,3,5-Trimethylbenzene	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
Vinyl chloride	<0.122		0.122		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1
<b>Xylenes, Total</b>	<b>0.185</b>		0.183		mg/Kg	☼	03/09/23 06:45	03/10/23 19:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120	03/09/23 06:45	03/10/23 19:27	1
Dibromofluoromethane (Surr)	101		80 - 120	03/09/23 06:45	03/10/23 19:27	1
Toluene-d8 (Surr)	99		80 - 120	03/09/23 06:45	03/10/23 19:27	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>0.0135</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
Acenaphthylene	<0.0106		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Anthracene</b>	<b>0.0194</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Benzo(a)anthracene</b>	<b>0.0536</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Benzo(a)pyrene</b>	<b>0.0502</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Benzo(b)fluoranthene</b>	<b>0.0639</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Benzo(g,h,i)perylene</b>	<b>0.0284</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Benzo(k)fluoranthene</b>	<b>0.0237</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Chrysene</b>	<b>0.0570</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
Dibenz(a,h)anthracene	<0.0106		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Fluoranthene</b>	<b>0.0989</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
Fluorene	<0.0106		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>0.0354</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
2-Methylnaphthalene	<0.0106		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
Naphthalene	<0.0106		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Phenanthrene</b>	<b>0.0825</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1
<b>Pyrene</b>	<b>0.0774</b>		0.0106		mg/Kg	☼	03/09/23 09:21	03/15/23 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	64		20 - 110	03/09/23 09:21	03/15/23 13:41	1
Nitrobenzene-d5 (Surr)	77		11 - 116	03/09/23 09:21	03/15/23 13:41	1
Terphenyl-d14 (Surr)	66		18 - 110	03/09/23 09:21	03/15/23 13:41	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-06 (5-6)**

**Lab Sample ID: 310-250925-12**

Date Collected: 03/06/23 14:15

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 88.9

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<11.0		11.0		mg/Kg	☼	03/09/23 17:36	03/10/23 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120				03/09/23 17:36	03/10/23 03:56	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<4.60		4.60		mg/Kg	☼	03/09/23 09:19	03/13/23 11:31	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.02		0.889		mg/Kg	☼	03/14/23 10:30	03/14/23 17:20	5
Barium	40.6		0.889		mg/Kg	☼	03/14/23 10:30	03/14/23 17:20	5
Cadmium	<0.444		0.444		mg/Kg	☼	03/14/23 10:30	03/14/23 17:20	5
Chromium	22.7		1.33		mg/Kg	☼	03/14/23 10:30	03/14/23 17:20	5
Lead	5.98		2.22		mg/Kg	☼	03/14/23 10:30	03/14/23 17:20	5
Selenium	<1.33		1.33		mg/Kg	☼	03/14/23 10:30	03/14/23 17:20	5
Silver	<0.222		0.222		mg/Kg	☼	03/14/23 10:30	03/14/23 17:20	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0203		0.0203		mg/Kg	☼	03/13/23 12:01	03/14/23 16:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	11.1		0.1		%			03/09/23 06:48	1
Percent Solids (EPA Moisture)	88.9		0.1		%			03/09/23 06:48	1



# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-08 (3-4)**

**Lab Sample ID: 310-250925-13**

Date Collected: 03/06/23 15:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 89.8

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.542		0.542		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Allyl chloride	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Benzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Bromobenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Bromochloromethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Bromodichloromethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Bromoform	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Bromomethane	<0.542		0.542		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
2-Butanone (MEK)	<0.814		0.814		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Carbon tetrachloride	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Chlorobenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Chlorodibromomethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Chloroethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Chloroform	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Chloromethane	<0.271		0.271		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
2-Chlorotoluene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
4-Chlorotoluene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
cis-1,2-Dichloroethene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
cis-1,3-Dichloropropene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,2-Dibromo-3-chloropropane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,2-Dibromoethane (EDB)	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Dibromomethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,2-Dichlorobenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,3-Dichlorobenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,4-Dichlorobenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Dichlorodifluoromethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,1-Dichloroethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,2-Dichloroethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,1-Dichloroethene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Dichlorofluoromethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,2-Dichloropropane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,3-Dichloropropane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
2,2-Dichloropropane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,1-Dichloropropene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Diethyl ether	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Ethylbenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Hexachlorobutadiene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Isopropylbenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Methylene chloride	<0.271		0.271		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
4-Methyl-2-pentanone (MIBK)	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Methyl tert-butyl ether	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Naphthalene	<0.271		0.271		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
n-Butylbenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
n-Propylbenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
p-Isopropyltoluene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
sec-Butylbenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
Styrene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
tert-Butylbenzene	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1
1,1,1,2-Tetrachloroethane	<0.108		0.108		mg/Kg	✱	03/09/23 06:45	03/10/23 19:51	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

**Client Sample ID: B-08 (3-4)**

**Lab Sample ID: 310-250925-13**

Date Collected: 03/06/23 15:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 89.8

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
Tetrachloroethene	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
Tetrahydrofuran	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
<b>Toluene</b>	<b>0.210</b>		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
trans-1,2-Dichloroethene	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
trans-1,3-Dichloropropene	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
1,2,3-Trichlorobenzene	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
1,2,4-Trichlorobenzene	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
1,1,1-Trichloroethane	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
1,1,2-Trichloroethane	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
Trichloroethene	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
Trichlorofluoromethane	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
1,2,3-Trichloropropane	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
1,1,2-Trichlorotrifluoroethane	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
<b>1,2,4-Trimethylbenzene</b>	<b>0.205</b>		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
1,3,5-Trimethylbenzene	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
Vinyl chloride	<0.108		0.108		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
<b>Xylenes, Total</b>	<b>0.300</b>		0.163		mg/Kg	☼	03/09/23 06:45	03/10/23 19:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	103		80 - 120				03/09/23 06:45	03/10/23 19:51	1
Dibromofluoromethane (Surr)	102		80 - 120				03/09/23 06:45	03/10/23 19:51	1
Toluene-d8 (Surr)	98		80 - 120				03/09/23 06:45	03/10/23 19:51	1

**Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0108		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Acenaphthylene</b>	<b>0.0138</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Anthracene</b>	<b>0.0361</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Benzo(a)anthracene</b>	<b>0.0922</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Benzo(a)pyrene</b>	<b>0.0691</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Benzo(b)fluoranthene</b>	<b>0.0876</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Benzo(g,h,i)perylene</b>	<b>0.0278</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Benzo(k)fluoranthene</b>	<b>0.0289</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Chrysene</b>	<b>0.0761</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
Dibenz(a,h)anthracene	<0.0108		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Fluoranthene</b>	<b>0.155</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Fluorene</b>	<b>0.0254</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>0.0395</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
2-Methylnaphthalene	<0.0108		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
Naphthalene	<0.0108		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Phenanthrene</b>	<b>0.165</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Pyrene</b>	<b>0.115</b>		0.0108		mg/Kg	☼	03/09/23 09:21	03/15/23 14:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	62		20 - 110				03/09/23 09:21	03/15/23 14:01	1
Nitrobenzene-d5 (Surr)	76		11 - 116				03/09/23 09:21	03/15/23 14:01	1
Terphenyl-d14 (Surr)	69		18 - 110				03/09/23 09:21	03/15/23 14:01	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-08 (3-4)**

**Lab Sample ID: 310-250925-13**

Date Collected: 03/06/23 15:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 89.8

**Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<9.72		9.72		mg/Kg	☼	03/09/23 17:36	03/10/23 04:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120				03/09/23 17:36	03/10/23 04:27	1

**Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO)	<5.43		5.43		mg/Kg	☼	03/09/23 09:19	03/13/23 12:05	1

**Method: SW846 6020B - Metals (ICP/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.59		1.04		mg/Kg	☼	03/14/23 10:30	03/14/23 17:23	5
Barium	51.6		1.04		mg/Kg	☼	03/14/23 10:30	03/14/23 17:23	5
Cadmium	<0.519		0.519		mg/Kg	☼	03/14/23 10:30	03/14/23 17:23	5
Chromium	35.3		1.56		mg/Kg	☼	03/14/23 10:30	03/14/23 17:23	5
Lead	4.72		2.60		mg/Kg	☼	03/14/23 10:30	03/14/23 17:23	5
Selenium	<1.56		1.56		mg/Kg	☼	03/14/23 10:30	03/14/23 17:23	5
Silver	<0.260		0.260		mg/Kg	☼	03/14/23 10:30	03/14/23 17:23	5

**Method: SW846 7471B - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0196		0.0196		mg/Kg	☼	03/13/23 12:01	03/14/23 16:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	10.2		0.1		%			03/09/23 06:48	1
Percent Solids (EPA Moisture)	89.8		0.1		%			03/09/23 06:48	1

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: Trip Blank (Soil)**

**Lab Sample ID: 310-250925-15**

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.500		0.500		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Allyl chloride	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Benzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Bromobenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Bromochloromethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Bromodichloromethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Bromoform	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Bromomethane	<0.500		0.500		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
2-Butanone (MEK)	<0.750		0.750		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Carbon tetrachloride	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Chlorobenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Chlorodibromomethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Chloroethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Chloroform	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Chloromethane	<0.250		0.250		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
2-Chlorotoluene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
4-Chlorotoluene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
cis-1,2-Dichloroethene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
cis-1,3-Dichloropropene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2-Dibromo-3-chloropropane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2-Dibromoethane (EDB)	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Dibromomethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2-Dichlorobenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,3-Dichlorobenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,4-Dichlorobenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Dichlorodifluoromethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,1-Dichloroethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2-Dichloroethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,1-Dichloroethene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Dichlorofluoromethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2-Dichloropropane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,3-Dichloropropane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
2,2-Dichloropropane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,1-Dichloropropene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Diethyl ether	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Ethylbenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Hexachlorobutadiene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Isopropylbenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Methylene chloride	<0.250		0.250		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
4-Methyl-2-pentanone (MIBK)	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Methyl tert-butyl ether	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Naphthalene	<0.250		0.250		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
n-Butylbenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
n-Propylbenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
p-Isopropyltoluene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
sec-Butylbenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Styrene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
tert-Butylbenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,1,1,2-Tetrachloroethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: Trip Blank (Soil)**

**Lab Sample ID: 310-250925-15**

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/08/23 09:30

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Tetrachloroethene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Tetrahydrofuran	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Toluene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
trans-1,2-Dichloroethene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
trans-1,3-Dichloropropene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2,3-Trichlorobenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2,4-Trichlorobenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,1,1-Trichloroethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,1,2-Trichloroethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Trichloroethene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Trichlorofluoromethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2,3-Trichloropropane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,1,2-Trichlorotrifluoroethane	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,2,4-Trimethylbenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
1,3,5-Trimethylbenzene	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Vinyl chloride	<0.100		0.100		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
Xylenes, Total	<0.150		0.150		mg/Kg		03/09/23 06:45	03/10/23 20:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	101		80 - 120				03/09/23 06:45	03/10/23 20:15	1
Dibromofluoromethane (Surr)	98		80 - 120				03/09/23 06:45	03/10/23 20:15	1
Toluene-d8 (Surr)	103		80 - 120				03/09/23 06:45	03/10/23 20:15	1

## Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

#### GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Surrogate Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (80-120)	TOL (80-120)
310-250925-6	B-05 (1.5-2.5)	98	99	102
310-250925-7	B-03 (1.5-2.5)	99	102	99
310-250925-8	B-04 (2-3)	94	102	100
310-250925-9	B-01 (5-6)	100	98	101
310-250925-10	B-02 (3-4)	102	99	100
310-250925-11	B-07 (2.5-3.5)	101	104	100
310-250925-12	B-06 (5-6)	100	101	99
310-250925-13	B-08 (3-4)	103	102	98
310-250925-15	Trip Blank (Soil)	101	98	103
LCS 310-380853/2-A	Lab Control Sample	103	102	103
MB 310-380853/1-A	Method Blank	97	95	102

**Surrogate Legend**  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (80-120)	DBFM (80-128)	TOL (80-120)
310-250925-1	B-01W (9.67)	99	100	105
310-250925-1	B-01W (9.67)	97	99	100
310-250925-1 MS	B-01W (9.67)	99	101	100
310-250925-1 MSD	B-01W (9.67)	99	101	96
310-250925-2	B-02W (8.50)	98	103	102
310-250925-3	B-07W (9.10)	100	102	102
310-250925-4	B-06W (8.75)	96	99	103
310-250925-5	B-08W (9.00)	99	98	100
LCS 310-380785/6	Lab Control Sample	96	108	104
LCS 310-380785/7	Lab Control Sample	102	102	105
LCS 310-380873/6	Lab Control Sample	98	98	106
LCS 310-380873/7	Lab Control Sample	97	103	98
MB 310-380785/5	Method Blank	98	101	104
MB 310-380873/5	Method Blank	98	98	101

**Surrogate Legend**  
 BFB = 4-Bromofluorobenzene (Surr)  
 DBFM = Dibromofluoromethane (Surr)  
 TOL = Toluene-d8 (Surr)

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (20-110)	NBZ (11-116)	TPHL (18-110)
310-250925-6	B-05 (1.5-2.5)	54	69	64
310-250925-7	B-03 (1.5-2.5)	65	79	73

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# Surrogate Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (20-110)	NBZ (11-116)	TPHL (18-110)
310-250925-8	B-04 (2-3)	54	67	65
310-250925-9	B-01 (5-6)	74	88	84
310-250925-10	B-02 (3-4)	68	73	78
310-250925-11	B-07 (2.5-3.5)	60	71	63
310-250925-12	B-06 (5-6)	64	77	66
310-250925-13	B-08 (3-4)	62	76	69
LCS 310-380889/2-A	Lab Control Sample	55	79	64
MB 310-380889/1-A	Method Blank	67	97	82

#### Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB
		(80-120)
310-250925-6	B-05 (1.5-2.5)	98
310-250925-7	B-03 (1.5-2.5)	100
310-250925-8	B-04 (2-3)	100
310-250925-9	B-01 (5-6)	100
310-250925-10	B-02 (3-4)	100
310-250925-11	B-07 (2.5-3.5)	100
310-250925-12	B-06 (5-6)	98
310-250925-13	B-08 (3-4)	97
LCS 310-380939/1-A	Lab Control Sample	101
LCS 310-380939/26-A	Lab Control Sample Dup	106
MB 310-380939/2-A	Method Blank	97

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB
		(80-120)
310-250925-1	B-01W (9.67)	141 S1+
310-250925-2	B-02W (8.50)	108
310-250925-3	B-07W (9.10)	110
310-250925-4	B-06W (8.75)	106
310-250925-5	B-08W (9.00)	108
LCS 310-380821/4	Lab Control Sample	111
LCS 310-380821/27	Lab Control Sample Dup	109
MB 310-380821/5	Method Blank	113

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 310-380785/5**  
**Matrix: Water**  
**Analysis Batch: 380785**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<10.0		10.0		ug/L			03/08/23 13:53	1
Allyl chloride	<2.00		2.00		ug/L			03/08/23 13:53	1
Benzene	<0.500		0.500		ug/L			03/08/23 13:53	1
Bromobenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
Bromochloromethane	<5.00		5.00		ug/L			03/08/23 13:53	1
Bromodichloromethane	<1.00		1.00		ug/L			03/08/23 13:53	1
Bromoform	<5.00		5.00		ug/L			03/08/23 13:53	1
Bromomethane	<4.00		4.00		ug/L			03/08/23 13:53	1
2-Butanone (MEK)	<10.0		10.0		ug/L			03/08/23 13:53	1
Carbon tetrachloride	<2.00		2.00		ug/L			03/08/23 13:53	1
Chlorobenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
Chlorodibromomethane	<5.00		5.00		ug/L			03/08/23 13:53	1
Chloroethane	<4.00		4.00		ug/L			03/08/23 13:53	1
Chloroform	<3.00		3.00		ug/L			03/08/23 13:53	1
Chloromethane	<3.00		3.00		ug/L			03/08/23 13:53	1
2-Chlorotoluene	<1.00		1.00		ug/L			03/08/23 13:53	1
4-Chlorotoluene	<1.00		1.00		ug/L			03/08/23 13:53	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			03/08/23 13:53	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L			03/08/23 13:53	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L			03/08/23 13:53	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L			03/08/23 13:53	1
Dibromomethane	<1.00		1.00		ug/L			03/08/23 13:53	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
Dichlorodifluoromethane	<3.00		3.00		ug/L			03/08/23 13:53	1
1,1-Dichloroethane	<1.00		1.00		ug/L			03/08/23 13:53	1
1,2-Dichloroethane	<1.00		1.00		ug/L			03/08/23 13:53	1
1,1-Dichloroethene	<2.00		2.00		ug/L			03/08/23 13:53	1
Dichlorofluoromethane	<1.00		1.00		ug/L			03/08/23 13:53	1
1,2-Dichloropropane	<1.00		1.00		ug/L			03/08/23 13:53	1
1,3-Dichloropropane	<1.00		1.00		ug/L			03/08/23 13:53	1
2,2-Dichloropropane	<4.00		4.00		ug/L			03/08/23 13:53	1
1,1-Dichloropropene	<1.00		1.00		ug/L			03/08/23 13:53	1
Diethyl ether	<2.00		2.00		ug/L			03/08/23 13:53	1
Ethylbenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
Hexachlorobutadiene	<5.00		5.00		ug/L			03/08/23 13:53	1
Isopropylbenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
Methylene chloride	<5.00		5.00		ug/L			03/08/23 13:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			03/08/23 13:53	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			03/08/23 13:53	1
Naphthalene	<5.00		5.00		ug/L			03/08/23 13:53	1
n-Butylbenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
n-Propylbenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
p-Isopropyltoluene	<1.00		1.00		ug/L			03/08/23 13:53	1
sec-Butylbenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
Styrene	<1.00		1.00		ug/L			03/08/23 13:53	1
tert-Butylbenzene	<1.00		1.00		ug/L			03/08/23 13:53	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-380785/5

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 380785

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			03/08/23 13:53	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			03/08/23 13:53	1
Tetrachloroethene	<1.00		1.00		ug/L			03/08/23 13:53	1
Tetrahydrofuran	<10.0		10.0		ug/L			03/08/23 13:53	1
Toluene	<1.00		1.00		ug/L			03/08/23 13:53	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			03/08/23 13:53	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			03/08/23 13:53	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			03/08/23 13:53	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			03/08/23 13:53	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			03/08/23 13:53	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			03/08/23 13:53	1
Trichloroethene	<1.00		1.00		ug/L			03/08/23 13:53	1
Trichlorofluoromethane	<4.00		4.00		ug/L			03/08/23 13:53	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			03/08/23 13:53	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			03/08/23 13:53	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			03/08/23 13:53	1
Vinyl chloride	<1.00		1.00		ug/L			03/08/23 13:53	1
Xylenes, Total	<3.00		3.00		ug/L			03/08/23 13:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		80 - 120		03/08/23 13:53	1
Dibromofluoromethane (Surr)	101		80 - 128		03/08/23 13:53	1
Toluene-d8 (Surr)	104		80 - 120		03/08/23 13:53	1

Lab Sample ID: LCS 310-380785/6

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 380785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	20.0	17.34		ug/L		87	50 - 150
Benzene	20.0	18.31		ug/L		92	73 - 122
Bromobenzene	20.0	17.39		ug/L		87	67 - 124
Bromochloromethane	20.0	20.47		ug/L		102	68 - 132
Bromodichloromethane	20.0	18.38		ug/L		92	72 - 121
Bromoform	20.0	16.98		ug/L		85	55 - 129
2-Butanone (MEK)	40.0	35.26		ug/L		88	50 - 150
Carbon tetrachloride	20.0	15.57		ug/L		78	67 - 132
Chlorobenzene	20.0	18.55		ug/L		93	69 - 121
Chlorodibromomethane	20.0	18.37		ug/L		92	69 - 122
Chloroform	20.0	18.43		ug/L		92	72 - 120
2-Chlorotoluene	20.0	18.47		ug/L		92	66 - 122
4-Chlorotoluene	20.0	18.08		ug/L		90	65 - 122
cis-1,2-Dichloroethene	20.0	18.68		ug/L		93	74 - 120
cis-1,3-Dichloropropene	20.0	17.79		ug/L		89	71 - 126
1,2-Dibromo-3-chloropropane	20.0	20.44		ug/L		102	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.25		ug/L		96	73 - 125

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-380785/6

Matrix: Water

Analysis Batch: 380785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Dibromomethane	20.0	20.11		ug/L		101	72 - 123
1,2-Dichlorobenzene	20.0	19.23		ug/L		96	68 - 120
1,3-Dichlorobenzene	20.0	16.96		ug/L		85	67 - 123
1,4-Dichlorobenzene	20.0	18.22		ug/L		91	67 - 120
1,1-Dichloroethane	20.0	18.55		ug/L		93	71 - 123
1,2-Dichloroethane	20.0	18.83		ug/L		94	70 - 124
1,1-Dichloroethene	20.0	14.80		ug/L		74	61 - 129
1,2-Dichloropropane	20.0	16.97		ug/L		85	73 - 121
1,3-Dichloropropane	20.0	19.10		ug/L		95	72 - 124
2,2-Dichloropropane	20.0	17.87		ug/L		89	50 - 150
1,1-Dichloropropene	20.0	17.54		ug/L		88	70 - 131
Diethyl ether	20.0	17.45		ug/L		87	59 - 136
Ethylbenzene	20.0	17.77		ug/L		89	69 - 122
Hexachlorobutadiene	20.0	17.09		ug/L		85	49 - 150
Isopropylbenzene	20.0	16.84		ug/L		84	66 - 126
Methylene chloride	20.0	16.48		ug/L		82	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	34.65		ug/L		87	62 - 130
Methyl tert-butyl ether	20.0	19.04		ug/L		95	68 - 127
Naphthalene	20.0	18.57		ug/L		93	50 - 150
n-Butylbenzene	20.0	17.52		ug/L		88	54 - 138
n-Propylbenzene	20.0	17.34		ug/L		87	65 - 127
p-Isopropyltoluene	20.0	17.53		ug/L		88	61 - 128
sec-Butylbenzene	20.0	16.22		ug/L		81	62 - 132
Styrene	20.0	17.55		ug/L		88	67 - 125
tert-Butylbenzene	20.0	16.68		ug/L		83	64 - 127
1,1,1,2-Tetrachloroethane	20.0	17.94		ug/L		90	68 - 123
1,1,1,2,2-Tetrachloroethane	20.0	19.48		ug/L		97	64 - 124
Tetrachloroethene	20.0	16.64		ug/L		83	69 - 131
Tetrahydrofuran	40.0	37.37		ug/L		93	62 - 132
Toluene	20.0	18.36		ug/L		92	72 - 121
trans-1,2-Dichloroethene	20.0	18.53		ug/L		93	68 - 125
trans-1,3-Dichloropropene	20.0	19.70		ug/L		99	68 - 124
1,2,3-Trichlorobenzene	20.0	16.54		ug/L		83	50 - 150
1,2,4-Trichlorobenzene	20.0	16.86		ug/L		84	61 - 124
1,1,1-Trichloroethane	20.0	17.51		ug/L		88	71 - 128
1,1,2-Trichloroethane	20.0	18.73		ug/L		94	70 - 124
Trichloroethene	20.0	16.43		ug/L		82	73 - 126
1,2,3-Trichloropropane	20.0	20.11		ug/L		101	64 - 125
1,1,2-Trichlorotrifluoroethane	20.0	15.89		ug/L		79	51 - 150
1,2,4-Trimethylbenzene	20.0	17.35		ug/L		87	65 - 125
1,3,5-Trimethylbenzene	20.0	17.63		ug/L		88	65 - 124
Xylenes, Total	40.0	35.74		ug/L		89	68 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	108		80 - 128
Toluene-d8 (Surr)	104		80 - 120

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-380785/7

Matrix: Water

Analysis Batch: 380785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	16.40		ug/L		82	24 - 150
Chloroethane	20.0	18.39		ug/L		92	51 - 137
Chloromethane	20.0	17.37		ug/L		87	37 - 150
Dichlorodifluoromethane	20.0	17.69		ug/L		88	37 - 150
Dichlorofluoromethane	20.0	16.27		ug/L		81	55 - 138
Trichlorofluoromethane	20.0	18.71		ug/L		94	56 - 144
Vinyl chloride	20.0	15.53		ug/L		78	57 - 136

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	102		80 - 128
Toluene-d8 (Surr)	105		80 - 120

Lab Sample ID: 310-250925-1 MS

Matrix: Water

Analysis Batch: 380785

Client Sample ID: B-01W (9.67)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	16.9		50.0	39.39		ug/L		45	35 - 150
Allyl chloride	<2.00		25.0	15.07		ug/L		60	35 - 150
Benzene	<0.500		25.0	21.10		ug/L		83	47 - 130
Bromobenzene	<1.00		25.0	21.85		ug/L		87	52 - 130
Bromochloromethane	<5.00	F2	25.0	27.80		ug/L		111	54 - 132
Bromodichloromethane	<1.00		25.0	18.48		ug/L		74	58 - 130
Bromoform	<5.00		25.0	19.05		ug/L		76	42 - 130
2-Butanone (MEK)	<10.0		50.0	42.58		ug/L		85	47 - 150
Carbon tetrachloride	<2.00		25.0	17.29		ug/L		69	45 - 132
Chlorobenzene	<1.00		25.0	21.74		ug/L		87	54 - 130
Chlorodibromomethane	<5.00		25.0	19.54		ug/L		78	53 - 130
Chloroform	<3.00		25.0	20.09		ug/L		80	55 - 130
2-Chlorotoluene	<1.00		25.0	19.16		ug/L		77	51 - 130
4-Chlorotoluene	<1.00		25.0	19.04		ug/L		76	46 - 130
cis-1,2-Dichloroethene	<1.00		25.0	22.12		ug/L		88	52 - 130
cis-1,3-Dichloropropene	<5.00		25.0	19.52		ug/L		78	55 - 130
1,2-Dibromo-3-chloropropane	<5.00		25.0	20.30		ug/L		81	45 - 150
1,2-Dibromoethane (EDB)	<1.00		25.0	24.04		ug/L		96	59 - 130
Dibromomethane	<1.00		25.0	22.85		ug/L		91	61 - 130
1,2-Dichlorobenzene	<1.00		25.0	21.66		ug/L		87	53 - 130
1,3-Dichlorobenzene	<1.00		25.0	20.91		ug/L		84	54 - 130
1,4-Dichlorobenzene	<1.00		25.0	21.08		ug/L		84	53 - 130
1,1-Dichloroethane	<1.00		25.0	21.37		ug/L		85	53 - 130
1,2-Dichloroethane	<1.00		25.0	19.27		ug/L		77	57 - 130
1,1-Dichloroethene	<2.00		25.0	16.82		ug/L		67	39 - 130
1,2-Dichloropropane	<1.00		25.0	20.72		ug/L		83	60 - 130
1,3-Dichloropropane	<1.00		25.0	20.68		ug/L		83	57 - 130
2,2-Dichloropropane	<4.00		25.0	21.30		ug/L		85	28 - 150
1,1-Dichloropropene	<1.00		25.0	19.90		ug/L		80	50 - 131
Diethyl ether	<2.00		25.0	22.05		ug/L		88	50 - 136

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## QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

### Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-250925-1 MS

Client Sample ID: B-01W (9.67)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 380785

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Ethylbenzene	<1.00		25.0	19.72		ug/L		79	48 - 130
Hexachlorobutadiene	<5.00		25.0	14.99		ug/L		60	27 - 150
Isopropylbenzene	<1.00		25.0	18.84		ug/L		75	43 - 130
Methylene chloride	<5.00		25.0	16.36		ug/L		65	50 - 150
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	44.18		ug/L		88	46 - 132
Methyl tert-butyl ether	<1.00		25.0	20.94		ug/L		84	57 - 130
Naphthalene	<5.00		25.0	25.03		ug/L		100	33 - 150
n-Butylbenzene	<1.00		25.0	16.75		ug/L		67	37 - 138
n-Propylbenzene	<1.00		25.0	18.57		ug/L		74	42 - 130
p-Isopropyltoluene	<1.00		25.0	17.60		ug/L		70	43 - 130
sec-Butylbenzene	<1.00		25.0	17.67		ug/L		71	41 - 132
Styrene	<1.00		25.0	20.35		ug/L		80	46 - 130
tert-Butylbenzene	<1.00		25.0	18.47		ug/L		74	45 - 130
1,1,1,2-Tetrachloroethane	<1.00		25.0	19.57		ug/L		78	52 - 130
1,1,2,2-Tetrachloroethane	<1.00		25.0	21.64		ug/L		87	51 - 130
Tetrachloroethene	<1.00		25.0	21.80		ug/L		87	42 - 131
Tetrahydrofuran	<10.0		50.0	40.39		ug/L		81	40 - 137
Toluene	<1.00		25.0	21.57		ug/L		86	48 - 130
trans-1,2-Dichloroethene	<1.00		25.0	23.03		ug/L		92	54 - 130
trans-1,3-Dichloropropene	<5.00		25.0	21.42		ug/L		86	51 - 130
1,2,3-Trichlorobenzene	<5.00		25.0	22.73		ug/L		91	46 - 150
1,2,4-Trichlorobenzene	<5.00		25.0	21.73		ug/L		87	45 - 130
1,1,1-Trichloroethane	<1.00		25.0	18.81		ug/L		75	49 - 130
1,1,2-Trichloroethane	<1.00		25.0	21.10		ug/L		84	56 - 130
Trichloroethene	5.62		25.0	26.51		ug/L		84	55 - 130
1,2,3-Trichloropropane	<1.00		25.0	21.83		ug/L		87	50 - 130
1,1,2-Trichlorotrifluoroethane	<2.00		25.0	19.80		ug/L		79	20 - 150
1,2,4-Trimethylbenzene	<1.00		25.0	19.13		ug/L		77	45 - 130
1,3,5-Trimethylbenzene	<1.00		25.0	19.09		ug/L		76	44 - 130
Xylenes, Total	<3.00		50.0	42.16		ug/L		84	44 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	101		80 - 128
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 310-250925-1 MSD

Client Sample ID: B-01W (9.67)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 380785

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
Acetone	16.9		50.0	37.55		ug/L		41	35 - 150	5	26
Allyl chloride	<2.00		25.0	13.13		ug/L		53	35 - 150	14	35
Benzene	<0.500		25.0	19.72		ug/L		78	47 - 130	7	20
Bromobenzene	<1.00		25.0	21.11		ug/L		84	52 - 130	3	20
Bromochloromethane	<5.00	F2	25.0	20.31	F2	ug/L		81	54 - 132	31	20
Bromodichloromethane	<1.00		25.0	18.15		ug/L		73	58 - 130	2	20
Bromoform	<5.00		25.0	19.61		ug/L		78	42 - 130	3	20

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-250925-1 MSD

Client Sample ID: B-01W (9.67)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 380785

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2-Butanone (MEK)	<10.0		50.0	42.59		ug/L		85	47 - 150	0	20
Carbon tetrachloride	<2.00		25.0	15.88		ug/L		64	45 - 132	9	20
Chlorobenzene	<1.00		25.0	20.45		ug/L		82	54 - 130	6	20
Chlorodibromomethane	<5.00		25.0	20.00		ug/L		80	53 - 130	2	20
Chloroform	<3.00		25.0	19.03		ug/L		76	55 - 130	5	20
2-Chlorotoluene	<1.00		25.0	18.42		ug/L		74	51 - 130	4	20
4-Chlorotoluene	<1.00		25.0	18.06		ug/L		72	46 - 130	5	20
cis-1,2-Dichloroethene	<1.00		25.0	20.38		ug/L		82	52 - 130	8	20
cis-1,3-Dichloropropene	<5.00		25.0	18.99		ug/L		76	55 - 130	3	20
1,2-Dibromo-3-chloropropane	<5.00		25.0	19.01		ug/L		76	45 - 150	7	20
1,2-Dibromoethane (EDB)	<1.00		25.0	22.87		ug/L		91	59 - 130	5	20
Dibromomethane	<1.00		25.0	21.89		ug/L		88	61 - 130	4	20
1,2-Dichlorobenzene	<1.00		25.0	21.27		ug/L		85	53 - 130	2	20
1,3-Dichlorobenzene	<1.00		25.0	19.74		ug/L		79	54 - 130	6	20
1,4-Dichlorobenzene	<1.00		25.0	20.07		ug/L		80	53 - 130	5	20
1,1-Dichloroethane	<1.00		25.0	19.42		ug/L		78	53 - 130	10	20
1,2-Dichloroethane	<1.00		25.0	18.67		ug/L		75	57 - 130	3	21
1,1-Dichloroethene	<2.00		25.0	16.07		ug/L		64	39 - 130	5	28
1,2-Dichloropropane	<1.00		25.0	19.71		ug/L		79	60 - 130	5	31
1,3-Dichloropropane	<1.00		25.0	20.73		ug/L		83	57 - 130	0	20
2,2-Dichloropropane	<4.00		25.0	21.16		ug/L		85	28 - 150	1	20
1,1-Dichloropropene	<1.00		25.0	18.44		ug/L		74	50 - 131	8	20
Diethyl ether	<2.00		25.0	21.85		ug/L		87	50 - 136	1	25
Ethylbenzene	<1.00		25.0	18.14		ug/L		73	48 - 130	8	20
Hexachlorobutadiene	<5.00		25.0	13.56		ug/L		54	27 - 150	10	22
Isopropylbenzene	<1.00		25.0	18.33		ug/L		73	43 - 130	3	20
Methylene chloride	<5.00		25.0	14.37		ug/L		57	50 - 150	13	24
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	44.19		ug/L		88	46 - 132	0	20
Methyl tert-butyl ether	<1.00		25.0	20.87		ug/L		83	57 - 130	0	20
Naphthalene	<5.00		25.0	24.10		ug/L		96	33 - 150	4	30
n-Butylbenzene	<1.00		25.0	16.24		ug/L		65	37 - 138	3	20
n-Propylbenzene	<1.00		25.0	17.91		ug/L		72	42 - 130	4	20
p-Isopropyltoluene	<1.00		25.0	17.69		ug/L		71	43 - 130	1	20
sec-Butylbenzene	<1.00		25.0	17.01		ug/L		68	41 - 132	4	20
Styrene	<1.00		25.0	19.51		ug/L		76	46 - 130	4	20
tert-Butylbenzene	<1.00		25.0	18.06		ug/L		72	45 - 130	2	20
1,1,1,2-Tetrachloroethane	<1.00		25.0	19.45		ug/L		78	52 - 130	1	20
1,1,2,2-Tetrachloroethane	<1.00		25.0	21.38		ug/L		86	51 - 130	1	20
Tetrachloroethene	<1.00		25.0	20.91		ug/L		84	42 - 131	4	20
Tetrahydrofuran	<10.0		50.0	45.09		ug/L		90	40 - 137	11	30
Toluene	<1.00		25.0	20.01		ug/L		80	48 - 130	8	20
trans-1,2-Dichloroethene	<1.00		25.0	20.37		ug/L		81	54 - 130	12	24
trans-1,3-Dichloropropene	<5.00		25.0	21.46		ug/L		86	51 - 130	0	20
1,2,3-Trichlorobenzene	<5.00		25.0	22.02		ug/L		88	46 - 150	3	23
1,2,4-Trichlorobenzene	<5.00		25.0	21.79		ug/L		87	45 - 130	0	20
1,1,1-Trichloroethane	<1.00		25.0	17.36		ug/L		69	49 - 130	8	20
1,1,2-Trichloroethane	<1.00		25.0	20.56		ug/L		82	56 - 130	3	20
Trichloroethene	5.62		25.0	23.96		ug/L		73	55 - 130	10	20
1,2,3-Trichloropropane	<1.00		25.0	21.25		ug/L		85	50 - 130	3	20

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-250925-1 MSD

Client Sample ID: B-01W (9.67)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 380785

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,2-Trichlorotrifluoroethane	<2.00		25.0	18.04		ug/L		72	20 - 150	9	21
1,2,4-Trimethylbenzene	<1.00		25.0	18.48		ug/L		74	45 - 130	3	20
1,3,5-Trimethylbenzene	<1.00		25.0	18.50		ug/L		74	44 - 130	3	20
Xylenes, Total	<3.00		50.0	39.23		ug/L		78	44 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	101		80 - 128
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: MB 310-380853/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 380856

Prep Batch: 380853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.470		0.470		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Allyl chloride	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Benzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Bromobenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Bromochloromethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Bromodichloromethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Bromoform	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Bromomethane	<0.470		0.470		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
2-Butanone (MEK)	<0.704		0.704		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Carbon tetrachloride	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Chlorobenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Chlorodibromomethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Chloroethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Chloroform	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Chloromethane	<0.235		0.235		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
2-Chlorotoluene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
4-Chlorotoluene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
cis-1,2-Dichloroethene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
cis-1,3-Dichloropropene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2-Dibromo-3-chloropropane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2-Dibromoethane (EDB)	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Dibromomethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2-Dichlorobenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,3-Dichlorobenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,4-Dichlorobenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Dichlorodifluoromethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,1-Dichloroethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2-Dichloroethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,1-Dichloroethene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Dichlorofluoromethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2-Dichloropropane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,3-Dichloropropane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
2,2-Dichloropropane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 310-380853/1-A**  
**Matrix: Solid**  
**Analysis Batch: 380856**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 380853**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloropropene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Diethyl ether	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Ethylbenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Hexachlorobutadiene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Isopropylbenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Methylene chloride	<0.235		0.235		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
4-Methyl-2-pentanone (MIBK)	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Methyl tert-butyl ether	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Naphthalene	<0.235		0.235		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
n-Butylbenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
n-Propylbenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
p-Isopropyltoluene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
sec-Butylbenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Styrene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
tert-Butylbenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,1,1,2-Tetrachloroethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,1,2,2-Tetrachloroethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Tetrachloroethene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Tetrahydrofuran	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Toluene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
trans-1,2-Dichloroethene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
trans-1,3-Dichloropropene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2,3-Trichlorobenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2,4-Trichlorobenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,1,1-Trichloroethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,1,2-Trichloroethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Trichloroethene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Trichlorofluoromethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2,3-Trichloropropane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,1,2-Trichlorotrifluoroethane	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,2,4-Trimethylbenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
1,3,5-Trimethylbenzene	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Vinyl chloride	<0.0939		0.0939		mg/Kg		03/09/23 06:45	03/10/23 12:15	1
Xylenes, Total	<0.141		0.141		mg/Kg		03/09/23 06:45	03/10/23 12:15	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	97		80 - 120	03/09/23 06:45	03/10/23 12:15	1
Dibromofluoromethane (Surr)	95		80 - 120	03/09/23 06:45	03/10/23 12:15	1
Toluene-d8 (Surr)	102		80 - 120	03/09/23 06:45	03/10/23 12:15	1

**Lab Sample ID: LCS 310-380853/2-A**  
**Matrix: Solid**  
**Analysis Batch: 380856**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 380853**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	0.924	1.233		mg/Kg		133	50 - 150
Benzene	0.924	1.102		mg/Kg		119	80 - 130

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-380853/2-A

Matrix: Solid

Analysis Batch: 380856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 380853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Bromobenzene	0.924	1.081		mg/Kg		117	76 - 124
Bromochloromethane	0.924	1.201		mg/Kg		130	78 - 141
Bromodichloromethane	0.924	1.150		mg/Kg		124	74 - 129
Bromoform	0.924	0.9150		mg/Kg		99	63 - 128
2-Butanone (MEK)	1.85	2.284		mg/Kg		124	50 - 150
Carbon tetrachloride	0.924	1.056		mg/Kg		114	75 - 136
Chlorobenzene	0.924	1.050		mg/Kg		114	79 - 125
Chlorodibromomethane	0.924	1.058		mg/Kg		114	73 - 125
Chloroform	0.924	1.087		mg/Kg		118	74 - 133
2-Chlorotoluene	0.924	1.094		mg/Kg		118	77 - 125
4-Chlorotoluene	0.924	1.025		mg/Kg		111	76 - 124
cis-1,2-Dichloroethene	0.924	1.099		mg/Kg		119	76 - 136
cis-1,3-Dichloropropene	0.924	1.056		mg/Kg		114	78 - 129
1,2-Dibromo-3-chloropropane	0.924	1.304		mg/Kg		141	50 - 150
1,2-Dibromoethane (EDB)	0.924	1.126		mg/Kg		122	77 - 130
Dibromomethane	0.924	1.224		mg/Kg		132	77 - 135
1,2-Dichlorobenzene	0.924	1.033		mg/Kg		112	74 - 123
1,3-Dichlorobenzene	0.924	1.017		mg/Kg		110	75 - 123
1,4-Dichlorobenzene	0.924	1.009		mg/Kg		109	76 - 123
1,1-Dichloroethane	0.924	1.106		mg/Kg		120	74 - 139
1,2-Dichloroethane	0.924	1.161		mg/Kg		126	73 - 138
1,1-Dichloroethene	0.924	1.045		mg/Kg		113	62 - 144
1,2-Dichloropropane	0.924	1.171		mg/Kg		127	79 - 130
1,3-Dichloropropane	0.924	1.125		mg/Kg		122	76 - 133
2,2-Dichloropropane	0.924	0.9297		mg/Kg		101	50 - 150
1,1-Dichloropropene	0.924	1.066		mg/Kg		115	78 - 136
Diethyl ether	0.924	1.127		mg/Kg		122	64 - 145
Ethylbenzene	0.924	1.062		mg/Kg		115	80 - 128
Hexachlorobutadiene	0.924	1.018		mg/Kg		110	50 - 150
Isopropylbenzene	0.924	1.068		mg/Kg		116	80 - 125
Methylene chloride	0.924	1.094		mg/Kg		118	50 - 150
4-Methyl-2-pentanone (MIBK)	1.85	2.136		mg/Kg		116	64 - 138
Methyl tert-butyl ether	0.924	1.154		mg/Kg		125	70 - 138
Naphthalene	0.924	1.006		mg/Kg		109	50 - 150
n-Butylbenzene	0.924	0.9940		mg/Kg		108	73 - 126
n-Propylbenzene	0.924	1.047		mg/Kg		113	79 - 126
p-Isopropyltoluene	0.924	1.014		mg/Kg		110	75 - 126
sec-Butylbenzene	0.924	1.016		mg/Kg		110	75 - 126
Styrene	0.924	1.018		mg/Kg		110	79 - 122
tert-Butylbenzene	0.924	1.054		mg/Kg		114	76 - 125
1,1,1,2-Tetrachloroethane	0.924	1.065		mg/Kg		115	78 - 127
1,1,2,2-Tetrachloroethane	0.924	1.154		mg/Kg		125	70 - 129
Tetrachloroethene	0.924	1.047		mg/Kg		113	77 - 133
Tetrahydrofuran	1.85	2.220		mg/Kg		120	67 - 142
Toluene	0.924	1.067		mg/Kg		116	80 - 127
trans-1,2-Dichloroethene	0.924	1.059		mg/Kg		115	70 - 136
trans-1,3-Dichloropropene	0.924	1.061		mg/Kg		115	74 - 129
1,2,3-Trichlorobenzene	0.924	1.041		mg/Kg		113	50 - 150
1,2,4-Trichlorobenzene	0.924	1.032		mg/Kg		112	67 - 131

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-380853/2-A

Matrix: Solid

Analysis Batch: 380856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 380853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
1,1,1-Trichloroethane	0.924	1.123		mg/Kg		122	77 - 136	
1,1,2-Trichloroethane	0.924	1.127		mg/Kg		122	74 - 130	
Trichloroethene	0.924	1.098		mg/Kg		119	80 - 131	
1,2,3-Trichloropropane	0.924	1.141		mg/Kg		124	69 - 133	
1,1,2-Trichlorotrifluoroethane	0.924	1.121		mg/Kg		121	59 - 149	
1,2,4-Trimethylbenzene	0.924	1.004		mg/Kg		109	76 - 129	
1,3,5-Trimethylbenzene	0.924	1.016		mg/Kg		110	76 - 127	
Xylenes, Total	1.85	2.123		mg/Kg		115	80 - 128	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
Toluene-d8 (Surr)	103		80 - 120

Lab Sample ID: MB 310-380873/5

Matrix: Water

Analysis Batch: 380873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<10.0		10.0		ug/L		03/09/23 09:40	03/09/23 09:40	1
Allyl chloride	<2.00		2.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Benzene	<0.500		0.500		ug/L		03/09/23 09:40	03/09/23 09:40	1
Bromobenzene	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Bromochloromethane	<5.00		5.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Bromodichloromethane	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Bromoform	<5.00		5.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Bromomethane	<4.00		4.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
2-Butanone (MEK)	<10.0		10.0		ug/L		03/09/23 09:40	03/09/23 09:40	1
Carbon tetrachloride	<2.00		2.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Chlorobenzene	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Chlorodibromomethane	<5.00		5.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Chloroethane	<4.00		4.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Chloroform	<3.00		3.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Chloromethane	<3.00		3.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
2-Chlorotoluene	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
4-Chlorotoluene	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
cis-1,3-Dichloropropene	<5.00		5.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
1,2-Dibromo-3-chloropropane	<5.00		5.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
1,2-Dibromoethane (EDB)	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Dibromomethane	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
1,2-Dichlorobenzene	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
1,3-Dichlorobenzene	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
1,4-Dichlorobenzene	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
Dichlorodifluoromethane	<3.00		3.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
1,1-Dichloroethane	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
1,2-Dichloroethane	<1.00		1.00		ug/L		03/09/23 09:40	03/09/23 09:40	1
1,1-Dichloroethene	<2.00		2.00		ug/L		03/09/23 09:40	03/09/23 09:40	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-380873/5

Matrix: Water

Analysis Batch: 380873

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorofluoromethane	<1.00		1.00		ug/L			03/09/23 09:40	1
1,2-Dichloropropane	<1.00		1.00		ug/L			03/09/23 09:40	1
1,3-Dichloropropane	<1.00		1.00		ug/L			03/09/23 09:40	1
2,2-Dichloropropane	<4.00		4.00		ug/L			03/09/23 09:40	1
1,1-Dichloropropene	<1.00		1.00		ug/L			03/09/23 09:40	1
Diethyl ether	<2.00		2.00		ug/L			03/09/23 09:40	1
Ethylbenzene	<1.00		1.00		ug/L			03/09/23 09:40	1
Hexachlorobutadiene	<5.00		5.00		ug/L			03/09/23 09:40	1
Isopropylbenzene	<1.00		1.00		ug/L			03/09/23 09:40	1
Methylene chloride	<5.00		5.00		ug/L			03/09/23 09:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0		ug/L			03/09/23 09:40	1
Methyl tert-butyl ether	<1.00		1.00		ug/L			03/09/23 09:40	1
Naphthalene	<5.00		5.00		ug/L			03/09/23 09:40	1
n-Butylbenzene	<1.00		1.00		ug/L			03/09/23 09:40	1
n-Propylbenzene	<1.00		1.00		ug/L			03/09/23 09:40	1
p-Isopropyltoluene	<1.00		1.00		ug/L			03/09/23 09:40	1
sec-Butylbenzene	<1.00		1.00		ug/L			03/09/23 09:40	1
Styrene	<1.00		1.00		ug/L			03/09/23 09:40	1
tert-Butylbenzene	<1.00		1.00		ug/L			03/09/23 09:40	1
1,1,1,2-Tetrachloroethane	<1.00		1.00		ug/L			03/09/23 09:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00		ug/L			03/09/23 09:40	1
Tetrachloroethene	<1.00		1.00		ug/L			03/09/23 09:40	1
Tetrahydrofuran	<10.0		10.0		ug/L			03/09/23 09:40	1
Toluene	<1.00		1.00		ug/L			03/09/23 09:40	1
trans-1,2-Dichloroethene	<1.00		1.00		ug/L			03/09/23 09:40	1
trans-1,3-Dichloropropene	<5.00		5.00		ug/L			03/09/23 09:40	1
1,2,3-Trichlorobenzene	<5.00		5.00		ug/L			03/09/23 09:40	1
1,2,4-Trichlorobenzene	<5.00		5.00		ug/L			03/09/23 09:40	1
1,1,1-Trichloroethane	<1.00		1.00		ug/L			03/09/23 09:40	1
1,1,2-Trichloroethane	<1.00		1.00		ug/L			03/09/23 09:40	1
Trichloroethene	<1.00		1.00		ug/L			03/09/23 09:40	1
Trichlorofluoromethane	<4.00		4.00		ug/L			03/09/23 09:40	1
1,2,3-Trichloropropane	<1.00		1.00		ug/L			03/09/23 09:40	1
1,1,2-Trichlorotrifluoroethane	<2.00		2.00		ug/L			03/09/23 09:40	1
1,2,4-Trimethylbenzene	<1.00		1.00		ug/L			03/09/23 09:40	1
1,3,5-Trimethylbenzene	<1.00		1.00		ug/L			03/09/23 09:40	1
Vinyl chloride	<1.00		1.00		ug/L			03/09/23 09:40	1
Xylenes, Total	<3.00		3.00		ug/L			03/09/23 09:40	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		80 - 120		03/09/23 09:40	1
Dibromofluoromethane (Surr)	98		80 - 128		03/09/23 09:40	1
Toluene-d8 (Surr)	101		80 - 120		03/09/23 09:40	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-380873/6

Matrix: Water

Analysis Batch: 380873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	38.59		ug/L		96	50 - 150
Allyl chloride	20.0	17.19		ug/L		86	50 - 150
Benzene	20.0	17.85		ug/L		89	73 - 122
Bromobenzene	20.0	19.30		ug/L		97	67 - 124
Bromochloromethane	20.0	19.06		ug/L		95	68 - 132
Bromodichloromethane	20.0	17.95		ug/L		90	72 - 121
Bromoform	20.0	15.36		ug/L		77	55 - 129
2-Butanone (MEK)	40.0	32.57		ug/L		81	50 - 150
Carbon tetrachloride	20.0	16.37		ug/L		82	67 - 132
Chlorobenzene	20.0	19.22		ug/L		96	69 - 121
Chlorodibromomethane	20.0	16.75		ug/L		84	69 - 122
Chloroform	20.0	18.18		ug/L		91	72 - 120
2-Chlorotoluene	20.0	19.10		ug/L		95	66 - 122
4-Chlorotoluene	20.0	19.74		ug/L		99	65 - 122
cis-1,2-Dichloroethene	20.0	18.56		ug/L		93	74 - 120
cis-1,3-Dichloropropene	20.0	17.93		ug/L		90	71 - 126
1,2-Dibromo-3-chloropropane	20.0	16.42		ug/L		82	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.56		ug/L		93	73 - 125
Dibromomethane	20.0	18.95		ug/L		95	72 - 123
1,2-Dichlorobenzene	20.0	18.96		ug/L		95	68 - 120
1,3-Dichlorobenzene	20.0	19.34		ug/L		97	67 - 123
1,4-Dichlorobenzene	20.0	19.42		ug/L		97	67 - 120
1,1-Dichloroethane	20.0	17.75		ug/L		89	71 - 123
1,2-Dichloroethane	20.0	18.64		ug/L		93	70 - 124
1,1-Dichloroethene	20.0	18.11		ug/L		91	61 - 129
1,2-Dichloropropane	20.0	17.09		ug/L		85	73 - 121
1,3-Dichloropropane	20.0	18.34		ug/L		92	72 - 124
2,2-Dichloropropane	20.0	18.61		ug/L		93	50 - 150
1,1-Dichloropropene	20.0	17.32		ug/L		87	70 - 131
Diethyl ether	20.0	18.95		ug/L		95	59 - 136
Ethylbenzene	20.0	19.53		ug/L		98	69 - 122
Hexachlorobutadiene	20.0	19.11		ug/L		96	49 - 150
Isopropylbenzene	20.0	19.43		ug/L		97	66 - 126
Methylene chloride	20.0	17.28		ug/L		86	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	42.80		ug/L		107	62 - 130
Methyl tert-butyl ether	20.0	16.96		ug/L		85	68 - 127
Naphthalene	20.0	17.75		ug/L		89	50 - 150
n-Butylbenzene	20.0	20.39		ug/L		102	54 - 138
n-Propylbenzene	20.0	19.77		ug/L		99	65 - 127
p-Isopropyltoluene	20.0	19.76		ug/L		99	61 - 128
sec-Butylbenzene	20.0	19.69		ug/L		98	62 - 132
Styrene	20.0	19.65		ug/L		98	67 - 125
tert-Butylbenzene	20.0	19.26		ug/L		96	64 - 127
1,1,1,2-Tetrachloroethane	20.0	16.78		ug/L		84	68 - 123
1,1,2,2-Tetrachloroethane	20.0	18.69		ug/L		93	64 - 124
Tetrachloroethene	20.0	19.18		ug/L		96	69 - 131
Tetrahydrofuran	40.0	35.93		ug/L		90	62 - 132
Toluene	20.0	20.36		ug/L		102	72 - 121

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## QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

### Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-380873/6

Matrix: Water

Analysis Batch: 380873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
trans-1,2-Dichloroethene	20.0	18.34		ug/L		92	68 - 125
trans-1,3-Dichloropropene	20.0	17.44		ug/L		87	68 - 124
1,2,3-Trichlorobenzene	20.0	18.12		ug/L		91	50 - 150
1,2,4-Trichlorobenzene	20.0	17.89		ug/L		89	61 - 124
1,1,1-Trichloroethane	20.0	18.01		ug/L		90	71 - 128
1,1,2-Trichloroethane	20.0	18.18		ug/L		91	70 - 124
Trichloroethene	20.0	17.09		ug/L		85	73 - 126
1,2,3-Trichloropropane	20.0	19.31		ug/L		97	64 - 125
1,1,2-Trichlorotrifluoroethane	20.0	19.73		ug/L		99	51 - 150
1,2,4-Trimethylbenzene	20.0	19.82		ug/L		99	65 - 125
1,3,5-Trimethylbenzene	20.0	19.86		ug/L		99	65 - 124
Xylenes, Total	40.0	38.37		ug/L		96	68 - 124

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	98		80 - 128
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: LCS 310-380873/7

Matrix: Water

Analysis Batch: 380873

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Bromomethane	20.0	16.96		ug/L		85	24 - 150
Chloroethane	20.0	19.09		ug/L		95	51 - 137
Chloromethane	20.0	16.80		ug/L		84	37 - 150
Dichlorodifluoromethane	20.0	19.50		ug/L		97	37 - 150
Dichlorofluoromethane	20.0	19.22		ug/L		96	55 - 138
Trichlorofluoromethane	20.0	21.60		ug/L		108	56 - 144
Vinyl chloride	20.0	19.24		ug/L		96	57 - 136

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	103		80 - 128
Toluene-d8 (Surr)	98		80 - 120

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 310-380889/1-A

Matrix: Solid

Analysis Batch: 381367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 380889

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Acenaphthylene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Anthracene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Benzo(a)anthracene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Benzo(a)pyrene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 310-380889/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 381367

Prep Batch: 380889

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo(b)fluoranthene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Benzo(g,h,i)perylene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Benzo(k)fluoranthene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Chrysene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Dibenz(a,h)anthracene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Fluoranthene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Fluorene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Indeno(1,2,3-cd)pyrene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
2-Methylnaphthalene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Naphthalene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Phenanthrene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1
Pyrene	<0.00947		0.00947		mg/Kg		03/09/23 09:21	03/15/23 12:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	67		20 - 110	03/09/23 09:21	03/15/23 12:23	1
Nitrobenzene-d5 (Surr)	97		11 - 116	03/09/23 09:21	03/15/23 12:23	1
Terphenyl-d14 (Surr)	82		18 - 110	03/09/23 09:21	03/15/23 12:23	1

Lab Sample ID: LCS 310-380889/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 381367

Prep Batch: 380889

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Acenaphthene	0.0323	0.02481		mg/Kg		77	30 - 110
Acenaphthylene	0.0323	0.02542		mg/Kg		79	31 - 110
Anthracene	0.0323	0.02387		mg/Kg		74	32 - 110
Benzo(a)anthracene	0.0323	0.02802		mg/Kg		87	36 - 110
Benzo(a)pyrene	0.0323	0.02466		mg/Kg		76	36 - 110
Benzo(b)fluoranthene	0.0323	0.02542		mg/Kg		79	37 - 110
Benzo(g,h,i)perylene	0.0323	0.02025		mg/Kg		63	22 - 110
Benzo(k)fluoranthene	0.0323	0.02316		mg/Kg		72	35 - 110
Chrysene	0.0323	0.02387		mg/Kg		74	35 - 110
Dibenz(a,h)anthracene	0.0323	0.02281		mg/Kg		71	23 - 110
Fluoranthene	0.0323	0.02391		mg/Kg		74	30 - 110
Fluorene	0.0323	0.02493		mg/Kg		77	30 - 110
Indeno(1,2,3-cd)pyrene	0.0323	0.02348		mg/Kg		73	23 - 110
2-Methylnaphthalene	0.0323	0.02373		mg/Kg		73	30 - 110
Naphthalene	0.0323	0.02267		mg/Kg		70	31 - 110
Phenanthrene	0.0323	0.02440		mg/Kg		76	32 - 110
Pyrene	0.0323	0.02298		mg/Kg		71	28 - 110

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	55		20 - 110
Nitrobenzene-d5 (Surr)	79		11 - 116
Terphenyl-d14 (Surr)	64		18 - 110

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

**Lab Sample ID: MB 310-380821/5**  
**Matrix: Water**  
**Analysis Batch: 380821**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<100		100		ug/L			03/08/23 16:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		80 - 120					03/08/23 16:09	1

**Lab Sample ID: LCS 310-380821/4**  
**Matrix: Water**  
**Analysis Batch: 380821**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Wisconsin GRO	800	892.0		ug/L		111	80 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	111		80 - 120					

**Lab Sample ID: LCSD 310-380821/27**  
**Matrix: Water**  
**Analysis Batch: 380821**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Wisconsin GRO	800	854.1		ug/L		107	80 - 120	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		80 - 120						

**Lab Sample ID: MB 310-380939/2-A**  
**Matrix: Solid**  
**Analysis Batch: 380938**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 380939**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Wisconsin GRO	<9.77		9.77		mg/Kg		03/09/23 17:36	03/09/23 19:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120				03/09/23 17:36	03/09/23 19:48	1

**Lab Sample ID: LCS 310-380939/1-A**  
**Matrix: Solid**  
**Analysis Batch: 380938**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 380939**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Wisconsin GRO	37.8	40.10		mg/Kg		106	80 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	101		80 - 120					

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

**Lab Sample ID: LCSD 310-380939/26-A**  
**Matrix: Solid**  
**Analysis Batch: 380938**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 380939**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Wisconsin GRO	39.4	41.87		mg/Kg		106	80 - 120	4		20
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCSD Qualifier</b>	<b>Limits</b>							
4-Bromofluorobenzene (Surr)	106		80 - 120							

## Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

**Lab Sample ID: MB 310-380796/1-A**  
**Matrix: Water**  
**Analysis Batch: 381063**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 380796**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

**Lab Sample ID: LCS 310-380796/2-A**  
**Matrix: Water**  
**Analysis Batch: 381063**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 380796**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Diesel Range Organics (DRO)	5000	4479		ug/L		90	75 - 115	

**Lab Sample ID: LCSD 310-380796/3-A**  
**Matrix: Water**  
**Analysis Batch: 381063**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 380796**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Diesel Range Organics (DRO)	5000	4553		ug/L		91	75 - 115	2		20

**Lab Sample ID: MB 310-380888/1-A**  
**Matrix: Solid**  
**Analysis Batch: 381062**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 380888**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

**Lab Sample ID: LCS 310-380888/2-A**  
**Matrix: Solid**  
**Analysis Batch: 381062**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 380888**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	RPD
Diesel Range Organics (DRO)	99.5	104.4		mg/Kg		105	70 - 120	

**Lab Sample ID: LCSD 310-380888/3-A**  
**Matrix: Solid**  
**Analysis Batch: 381062**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 380888**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Diesel Range Organics (DRO)	98.2	98.01		mg/Kg		100	70 - 120	6		20

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Method: 6020B - Metals (ICP/MS)

**Lab Sample ID: MB 310-380992/1-A ^5**  
**Matrix: Solid**  
**Analysis Batch: 381311**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 380992**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.803		0.803		mg/Kg		03/14/23 10:30	03/14/23 15:25	5
Barium	<0.803		0.803		mg/Kg		03/14/23 10:30	03/14/23 15:25	5
Cadmium	<0.401		0.401		mg/Kg		03/14/23 10:30	03/14/23 15:25	5
Chromium	<1.20		1.20		mg/Kg		03/14/23 10:30	03/14/23 15:25	5
Lead	<2.01		2.01		mg/Kg		03/14/23 10:30	03/14/23 15:25	5
Selenium	<1.20		1.20		mg/Kg		03/14/23 10:30	03/14/23 15:25	5
Silver	<0.201		0.201		mg/Kg		03/14/23 10:30	03/14/23 15:25	5

**Lab Sample ID: LCS 310-380992/2-A ^20**  
**Matrix: Solid**  
**Analysis Batch: 381311**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 380992**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	85.0	88.46		mg/Kg		104	80 - 120
Cadmium	85.0	89.01		mg/Kg		105	80 - 120
Chromium	85.0	88.58		mg/Kg		104	80 - 120
Lead	170	182.2		mg/Kg		107	80 - 120
Selenium	340	353.1		mg/Kg		104	80 - 120
Silver	85.0	92.81		mg/Kg		109	80 - 120

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 310-381144/1-A**  
**Matrix: Solid**  
**Analysis Batch: 381310**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 381144**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0157		0.0157		mg/Kg		03/13/23 12:01	03/14/23 15:27	1

**Lab Sample ID: LCS 310-381144/2-A**  
**Matrix: Solid**  
**Analysis Batch: 381310**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 381144**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## GC/MS VOA

### Analysis Batch: 380785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-1	B-01W (9.67)	Total/NA	Water	8260D	
310-250925-2	B-02W (8.50)	Total/NA	Water	8260D	
310-250925-3	B-07W (9.10)	Total/NA	Water	8260D	
310-250925-4	B-06W (8.75)	Total/NA	Water	8260D	
310-250925-5	B-08W (9.00)	Total/NA	Water	8260D	
MB 310-380785/5	Method Blank	Total/NA	Water	8260D	
LCS 310-380785/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-380785/7	Lab Control Sample	Total/NA	Water	8260D	
310-250925-1 MS	B-01W (9.67)	Total/NA	Water	8260D	
310-250925-1 MSD	B-01W (9.67)	Total/NA	Water	8260D	

### Prep Batch: 380853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	5035	
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	5035	
310-250925-8	B-04 (2-3)	Total/NA	Solid	5035	
310-250925-9	B-01 (5-6)	Total/NA	Solid	5035	
310-250925-10	B-02 (3-4)	Total/NA	Solid	5035	
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	5035	
310-250925-12	B-06 (5-6)	Total/NA	Solid	5035	
310-250925-13	B-08 (3-4)	Total/NA	Solid	5035	
310-250925-15	Trip Blank (Soil)	Total/NA	Solid	5035	
MB 310-380853/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-380853/2-A	Lab Control Sample	Total/NA	Solid	5035	

### Analysis Batch: 380856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	8260D	380853
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	8260D	380853
310-250925-8	B-04 (2-3)	Total/NA	Solid	8260D	380853
310-250925-9	B-01 (5-6)	Total/NA	Solid	8260D	380853
310-250925-10	B-02 (3-4)	Total/NA	Solid	8260D	380853
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	8260D	380853
310-250925-12	B-06 (5-6)	Total/NA	Solid	8260D	380853
310-250925-13	B-08 (3-4)	Total/NA	Solid	8260D	380853
310-250925-15	Trip Blank (Soil)	Total/NA	Solid	8260D	380853
MB 310-380853/1-A	Method Blank	Total/NA	Solid	8260D	380853
LCS 310-380853/2-A	Lab Control Sample	Total/NA	Solid	8260D	380853

### Analysis Batch: 380873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-1	B-01W (9.67)	Total/NA	Water	8260D	
MB 310-380873/5	Method Blank	Total/NA	Water	8260D	
LCS 310-380873/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-380873/7	Lab Control Sample	Total/NA	Water	8260D	

## GC/MS Semi VOA

### Prep Batch: 380889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	3546	

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# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## GC/MS Semi VOA (Continued)

### Prep Batch: 380889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	3546	
310-250925-8	B-04 (2-3)	Total/NA	Solid	3546	
310-250925-9	B-01 (5-6)	Total/NA	Solid	3546	
310-250925-10	B-02 (3-4)	Total/NA	Solid	3546	
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	3546	
310-250925-12	B-06 (5-6)	Total/NA	Solid	3546	
310-250925-13	B-08 (3-4)	Total/NA	Solid	3546	
MB 310-380889/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-380889/2-A	Lab Control Sample	Total/NA	Solid	3546	

### Analysis Batch: 381208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	8270E SIM	380889
310-250925-8	B-04 (2-3)	Total/NA	Solid	8270E SIM	380889
310-250925-9	B-01 (5-6)	Total/NA	Solid	8270E SIM	380889
310-250925-10	B-02 (3-4)	Total/NA	Solid	8270E SIM	380889

### Analysis Batch: 381367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	8270E SIM	380889
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	8270E SIM	380889
310-250925-12	B-06 (5-6)	Total/NA	Solid	8270E SIM	380889
310-250925-13	B-08 (3-4)	Total/NA	Solid	8270E SIM	380889
MB 310-380889/1-A	Method Blank	Total/NA	Solid	8270E SIM	380889
LCS 310-380889/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	380889

## GC VOA

### Analysis Batch: 380821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-1	B-01W (9.67)	Total/NA	Water	WI-GRO	
310-250925-2	B-02W (8.50)	Total/NA	Water	WI-GRO	
310-250925-3	B-07W (9.10)	Total/NA	Water	WI-GRO	
310-250925-4	B-06W (8.75)	Total/NA	Water	WI-GRO	
310-250925-5	B-08W (9.00)	Total/NA	Water	WI-GRO	
MB 310-380821/5	Method Blank	Total/NA	Water	WI-GRO	
LCS 310-380821/4	Lab Control Sample	Total/NA	Water	WI-GRO	
LCSD 310-380821/27	Lab Control Sample Dup	Total/NA	Water	WI-GRO	

### Analysis Batch: 380938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	WI-GRO	380939
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	WI-GRO	380939
310-250925-8	B-04 (2-3)	Total/NA	Solid	WI-GRO	380939
310-250925-9	B-01 (5-6)	Total/NA	Solid	WI-GRO	380939
310-250925-10	B-02 (3-4)	Total/NA	Solid	WI-GRO	380939
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	WI-GRO	380939
310-250925-12	B-06 (5-6)	Total/NA	Solid	WI-GRO	380939
310-250925-13	B-08 (3-4)	Total/NA	Solid	WI-GRO	380939
MB 310-380939/2-A	Method Blank	Total/NA	Solid	WI-GRO	380939
LCS 310-380939/1-A	Lab Control Sample	Total/NA	Solid	WI-GRO	380939

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# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## GC VOA (Continued)

### Analysis Batch: 380938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 310-380939/26-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	380939

### Prep Batch: 380939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	WI GRO	
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	WI GRO	
310-250925-8	B-04 (2-3)	Total/NA	Solid	WI GRO	
310-250925-9	B-01 (5-6)	Total/NA	Solid	WI GRO	
310-250925-10	B-02 (3-4)	Total/NA	Solid	WI GRO	
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	WI GRO	
310-250925-12	B-06 (5-6)	Total/NA	Solid	WI GRO	
310-250925-13	B-08 (3-4)	Total/NA	Solid	WI GRO	
MB 310-380939/2-A	Method Blank	Total/NA	Solid	5035	
LCS 310-380939/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 310-380939/26-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## GC Semi VOA

### Prep Batch: 380796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-1	B-01W (9.67)	Total/NA	Water	3510C	
310-250925-2	B-02W (8.50)	Total/NA	Water	3510C	
310-250925-3	B-07W (9.10)	Total/NA	Water	3510C	
310-250925-4	B-06W (8.75)	Total/NA	Water	3510C	
310-250925-5	B-08W (9.00)	Total/NA	Water	3510C	
MB 310-380796/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-380796/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-380796/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Prep Batch: 380888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	WI DRO PREP	
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	WI DRO PREP	
310-250925-8	B-04 (2-3)	Total/NA	Solid	WI DRO PREP	
310-250925-9	B-01 (5-6)	Total/NA	Solid	WI DRO PREP	
310-250925-10	B-02 (3-4)	Total/NA	Solid	WI DRO PREP	
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	WI DRO PREP	
310-250925-12	B-06 (5-6)	Total/NA	Solid	WI DRO PREP	
310-250925-13	B-08 (3-4)	Total/NA	Solid	WI DRO PREP	
MB 310-380888/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 310-380888/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 310-380888/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

### Analysis Batch: 381062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	WI-DRO	380888
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	WI-DRO	380888
310-250925-8	B-04 (2-3)	Total/NA	Solid	WI-DRO	380888
310-250925-9	B-01 (5-6)	Total/NA	Solid	WI-DRO	380888
310-250925-10	B-02 (3-4)	Total/NA	Solid	WI-DRO	380888
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	WI-DRO	380888

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# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## GC Semi VOA (Continued)

### Analysis Batch: 381062 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-12	B-06 (5-6)	Total/NA	Solid	WI-DRO	380888
310-250925-13	B-08 (3-4)	Total/NA	Solid	WI-DRO	380888
MB 310-380888/1-A	Method Blank	Total/NA	Solid	WI-DRO	380888
LCS 310-380888/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	380888
LCSD 310-380888/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	380888

### Analysis Batch: 381063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-1	B-01W (9.67)	Total/NA	Water	WI-DRO	380796
310-250925-2	B-02W (8.50)	Total/NA	Water	WI-DRO	380796
310-250925-3	B-07W (9.10)	Total/NA	Water	WI-DRO	380796
310-250925-4	B-06W (8.75)	Total/NA	Water	WI-DRO	380796
310-250925-5	B-08W (9.00)	Total/NA	Water	WI-DRO	380796
MB 310-380796/1-A	Method Blank	Total/NA	Water	WI-DRO	380796
LCS 310-380796/2-A	Lab Control Sample	Total/NA	Water	WI-DRO	380796
LCSD 310-380796/3-A	Lab Control Sample Dup	Total/NA	Water	WI-DRO	380796

## Metals

### Prep Batch: 380992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	3050B	
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	3050B	
310-250925-8	B-04 (2-3)	Total/NA	Solid	3050B	
310-250925-9	B-01 (5-6)	Total/NA	Solid	3050B	
310-250925-10	B-02 (3-4)	Total/NA	Solid	3050B	
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	3050B	
310-250925-12	B-06 (5-6)	Total/NA	Solid	3050B	
310-250925-13	B-08 (3-4)	Total/NA	Solid	3050B	
MB 310-380992/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 310-380992/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	

### Prep Batch: 381144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	7471B	
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	7471B	
310-250925-8	B-04 (2-3)	Total/NA	Solid	7471B	
310-250925-9	B-01 (5-6)	Total/NA	Solid	7471B	
310-250925-10	B-02 (3-4)	Total/NA	Solid	7471B	
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	7471B	
310-250925-12	B-06 (5-6)	Total/NA	Solid	7471B	
310-250925-13	B-08 (3-4)	Total/NA	Solid	7471B	
MB 310-381144/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 310-381144/2-A	Lab Control Sample	Total/NA	Solid	7471B	

### Analysis Batch: 381310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	7471B	381144
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	7471B	381144
310-250925-8	B-04 (2-3)	Total/NA	Solid	7471B	381144
310-250925-9	B-01 (5-6)	Total/NA	Solid	7471B	381144

Eurofins Cedar Falls

# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Metals (Continued)

### Analysis Batch: 381310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-10	B-02 (3-4)	Total/NA	Solid	7471B	381144
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	7471B	381144
310-250925-12	B-06 (5-6)	Total/NA	Solid	7471B	381144
310-250925-13	B-08 (3-4)	Total/NA	Solid	7471B	381144
MB 310-381144/1-A	Method Blank	Total/NA	Solid	7471B	381144
LCS 310-381144/2-A	Lab Control Sample	Total/NA	Solid	7471B	381144

### Analysis Batch: 381311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	6020B	380992
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	6020B	380992
310-250925-8	B-04 (2-3)	Total/NA	Solid	6020B	380992
310-250925-9	B-01 (5-6)	Total/NA	Solid	6020B	380992
310-250925-10	B-02 (3-4)	Total/NA	Solid	6020B	380992
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	6020B	380992
310-250925-12	B-06 (5-6)	Total/NA	Solid	6020B	380992
310-250925-13	B-08 (3-4)	Total/NA	Solid	6020B	380992
MB 310-380992/1-A ^5	Method Blank	Total/NA	Solid	6020B	380992
LCS 310-380992/2-A ^20	Lab Control Sample	Total/NA	Solid	6020B	380992

## General Chemistry

### Analysis Batch: 380837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-6	B-05 (1.5-2.5)	Total/NA	Solid	Moisture	
310-250925-7	B-03 (1.5-2.5)	Total/NA	Solid	Moisture	
310-250925-8	B-04 (2-3)	Total/NA	Solid	Moisture	
310-250925-9	B-01 (5-6)	Total/NA	Solid	Moisture	
310-250925-10	B-02 (3-4)	Total/NA	Solid	Moisture	
310-250925-11	B-07 (2.5-3.5)	Total/NA	Solid	Moisture	

### Analysis Batch: 380854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-250925-12	B-06 (5-6)	Total/NA	Solid	Moisture	
310-250925-13	B-08 (3-4)	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-01W (9.67)**

**Lab Sample ID: 310-250925-1**

Date Collected: 03/06/23 12:15

Matrix: Water

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	380873	WSE8	EET CF	03/09/23 13:13
Total/NA	Analysis	8260D		1	380785	WSE8	EET CF	03/08/23 15:15
Total/NA	Analysis	WI-GRO		1	380821	ZB9H	EET CF	03/08/23 21:42
Total/NA	Prep	3510C			380796	Y6AF	EET CF	03/08/23 12:32
Total/NA	Analysis	WI-DRO		1	381063	C3AA	EET CF	03/13/23 09:28

**Client Sample ID: B-02W (8.50)**

**Lab Sample ID: 310-250925-2**

Date Collected: 03/06/23 13:15

Matrix: Water

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	380785	WSE8	EET CF	03/08/23 15:35
Total/NA	Analysis	WI-GRO		5	380821	ZB9H	EET CF	03/08/23 23:25
Total/NA	Prep	3510C			380796	Y6AF	EET CF	03/08/23 12:32
Total/NA	Analysis	WI-DRO		1	381063	C3AA	EET CF	03/13/23 09:39

**Client Sample ID: B-07W (9.10)**

**Lab Sample ID: 310-250925-3**

Date Collected: 03/06/23 14:00

Matrix: Water

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	380785	WSE8	EET CF	03/08/23 15:56
Total/NA	Analysis	WI-GRO		1	380821	ZB9H	EET CF	03/08/23 22:08
Total/NA	Prep	3510C			380796	Y6AF	EET CF	03/08/23 12:32
Total/NA	Analysis	WI-DRO		1	381063	C3AA	EET CF	03/13/23 09:50

**Client Sample ID: B-06W (8.75)**

**Lab Sample ID: 310-250925-4**

Date Collected: 03/06/23 14:20

Matrix: Water

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	380785	WSE8	EET CF	03/08/23 16:16
Total/NA	Analysis	WI-GRO		5	380821	ZB9H	EET CF	03/08/23 23:50
Total/NA	Prep	3510C			380796	Y6AF	EET CF	03/08/23 12:32
Total/NA	Analysis	WI-DRO		1	381063	C3AA	EET CF	03/13/23 10:02

**Client Sample ID: B-08W (9.00)**

**Lab Sample ID: 310-250925-5**

Date Collected: 03/06/23 15:45

Matrix: Water

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	380785	WSE8	EET CF	03/08/23 16:36
Total/NA	Analysis	WI-GRO		5	380821	ZB9H	EET CF	03/09/23 00:16
Total/NA	Prep	3510C			380796	Y6AF	EET CF	03/08/23 12:32
Total/NA	Analysis	WI-DRO		1	381063	C3AA	EET CF	03/13/23 10:43

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-05 (1.5-2.5)**

**Lab Sample ID: 310-250925-6**

Date Collected: 03/06/23 09:30

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380837	A3GU	EET CF	03/08/23 17:30

**Client Sample ID: B-05 (1.5-2.5)**

**Lab Sample ID: 310-250925-6**

Date Collected: 03/06/23 09:30

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 17:02
Total/NA	Prep	3546			380889	GW4G	EET CF	03/09/23 09:21
Total/NA	Analysis	8270E SIM		1	381367	V7YZ	EET CF	03/15/23 13:02
Total/NA	Prep	WI GRO			380939	ZB9H	EET CF	03/09/23 17:36
Total/NA	Analysis	WI-GRO		1	380938	ZB9H	EET CF	03/10/23 00:53
Total/NA	Prep	WI DRO PREP			380888	GW4G	EET CF	03/09/23 09:19
Total/NA	Analysis	WI-DRO		1	381062	C3AA	EET CF	03/13/23 09:55
Total/NA	Prep	3050B			380992	DHM5	EET CF	03/14/23 10:30
Total/NA	Analysis	6020B		5	381311	A6US	EET CF	03/14/23 16:59
Total/NA	Prep	7471B			381144	DHM5	EET CF	03/13/23 12:01
Total/NA	Analysis	7471B		1	381310	XXW3	EET CF	03/14/23 15:53

**Client Sample ID: B-03 (1.5-2.5)**

**Lab Sample ID: 310-250925-7**

Date Collected: 03/06/23 10:00

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380837	A3GU	EET CF	03/08/23 17:30

**Client Sample ID: B-03 (1.5-2.5)**

**Lab Sample ID: 310-250925-7**

Date Collected: 03/06/23 10:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 17:26
Total/NA	Prep	3546			380889	GW4G	EET CF	03/09/23 09:21
Total/NA	Analysis	8270E SIM		1	381208	V7YZ	EET CF	03/14/23 19:34
Total/NA	Prep	WI GRO			380939	ZB9H	EET CF	03/09/23 17:36
Total/NA	Analysis	WI-GRO		1	380938	ZB9H	EET CF	03/10/23 01:24
Total/NA	Prep	WI DRO PREP			380888	GW4G	EET CF	03/09/23 09:19
Total/NA	Analysis	WI-DRO		1	381062	C3AA	EET CF	03/13/23 10:07
Total/NA	Prep	3050B			380992	DHM5	EET CF	03/14/23 10:30
Total/NA	Analysis	6020B		5	381311	A6US	EET CF	03/14/23 17:02
Total/NA	Prep	7471B			381144	DHM5	EET CF	03/13/23 12:01
Total/NA	Analysis	7471B		1	381310	XXW3	EET CF	03/14/23 15:55



# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-04 (2-3)**

**Lab Sample ID: 310-250925-8**

Date Collected: 03/06/23 11:00

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380837	A3GU	EET CF	03/08/23 17:30

**Client Sample ID: B-04 (2-3)**

**Lab Sample ID: 310-250925-8**

Date Collected: 03/06/23 11:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 17:51
Total/NA	Prep	3546			380889	GW4G	EET CF	03/09/23 09:21
Total/NA	Analysis	8270E SIM		1	381208	V7YZ	EET CF	03/14/23 19:53
Total/NA	Prep	WI GRO			380939	ZB9H	EET CF	03/09/23 17:36
Total/NA	Analysis	WI-GRO		1	380938	ZB9H	EET CF	03/10/23 01:54
Total/NA	Prep	WI DRO PREP			380888	GW4G	EET CF	03/09/23 09:19
Total/NA	Analysis	WI-DRO		1	381062	C3AA	EET CF	03/13/23 10:45
Total/NA	Prep	3050B			380992	DHM5	EET CF	03/14/23 10:30
Total/NA	Analysis	6020B		5	381311	A6US	EET CF	03/14/23 17:07
Total/NA	Prep	7471B			381144	DHM5	EET CF	03/13/23 12:01
Total/NA	Analysis	7471B		1	381310	XXW3	EET CF	03/14/23 15:57

**Client Sample ID: B-01 (5-6)**

**Lab Sample ID: 310-250925-9**

Date Collected: 03/06/23 12:00

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380837	A3GU	EET CF	03/08/23 17:30

**Client Sample ID: B-01 (5-6)**

**Lab Sample ID: 310-250925-9**

Date Collected: 03/06/23 12:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 18:15
Total/NA	Prep	3546			380889	GW4G	EET CF	03/09/23 09:21
Total/NA	Analysis	8270E SIM		1	381208	V7YZ	EET CF	03/14/23 20:12
Total/NA	Prep	WI GRO			380939	ZB9H	EET CF	03/09/23 17:36
Total/NA	Analysis	WI-GRO		1	380938	ZB9H	EET CF	03/10/23 02:25
Total/NA	Prep	WI DRO PREP			380888	GW4G	EET CF	03/09/23 09:19
Total/NA	Analysis	WI-DRO		1	381062	C3AA	EET CF	03/13/23 10:56
Total/NA	Prep	3050B			380992	DHM5	EET CF	03/14/23 10:30
Total/NA	Analysis	6020B		5	381311	A6US	EET CF	03/14/23 17:10
Total/NA	Prep	7471B			381144	DHM5	EET CF	03/13/23 12:01
Total/NA	Analysis	7471B		1	381310	XXW3	EET CF	03/14/23 15:59

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-02 (3-4)**

**Lab Sample ID: 310-250925-10**

Date Collected: 03/06/23 12:30

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380837	A3GU	EET CF	03/08/23 17:30

**Client Sample ID: B-02 (3-4)**

**Lab Sample ID: 310-250925-10**

Date Collected: 03/06/23 12:30

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 18:39
Total/NA	Prep	3546			380889	GW4G	EET CF	03/09/23 09:21
Total/NA	Analysis	8270E SIM		5	381208	V7YZ	EET CF	03/14/23 18:55
Total/NA	Prep	WI GRO			380939	ZB9H	EET CF	03/09/23 17:36
Total/NA	Analysis	WI-GRO		1	380938	ZB9H	EET CF	03/10/23 02:55
Total/NA	Prep	WI DRO PREP			380888	GW4G	EET CF	03/09/23 09:19
Total/NA	Analysis	WI-DRO		1	381062	C3AA	EET CF	03/13/23 11:08
Total/NA	Prep	3050B			380992	DHM5	EET CF	03/14/23 10:30
Total/NA	Analysis	6020B		5	381311	A6US	EET CF	03/14/23 17:13
Total/NA	Prep	7471B			381144	DHM5	EET CF	03/13/23 12:01
Total/NA	Analysis	7471B		1	381310	XXW3	EET CF	03/14/23 16:01

**Client Sample ID: B-07 (2.5-3.5)**

**Lab Sample ID: 310-250925-11**

Date Collected: 03/06/23 13:20

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380837	A3GU	EET CF	03/08/23 17:30

**Client Sample ID: B-07 (2.5-3.5)**

**Lab Sample ID: 310-250925-11**

Date Collected: 03/06/23 13:20

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 19:03
Total/NA	Prep	3546			380889	GW4G	EET CF	03/09/23 09:21
Total/NA	Analysis	8270E SIM		1	381367	V7YZ	EET CF	03/15/23 13:22
Total/NA	Prep	WI GRO			380939	ZB9H	EET CF	03/09/23 17:36
Total/NA	Analysis	WI-GRO		1	380938	ZB9H	EET CF	03/10/23 03:26
Total/NA	Prep	WI DRO PREP			380888	GW4G	EET CF	03/09/23 09:19
Total/NA	Analysis	WI-DRO		1	381062	C3AA	EET CF	03/13/23 11:19
Total/NA	Prep	3050B			380992	DHM5	EET CF	03/14/23 10:30
Total/NA	Analysis	6020B		5	381311	A6US	EET CF	03/14/23 17:17
Total/NA	Prep	7471B			381144	DHM5	EET CF	03/13/23 12:01
Total/NA	Analysis	7471B		1	381310	XXW3	EET CF	03/14/23 16:04

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

**Client Sample ID: B-06 (5-6)**

**Lab Sample ID: 310-250925-12**

Date Collected: 03/06/23 14:15

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380854	DGU1	EET CF	03/09/23 06:48

**Client Sample ID: B-06 (5-6)**

**Lab Sample ID: 310-250925-12**

Date Collected: 03/06/23 14:15

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 19:27
Total/NA	Prep	3546			380889	GW4G	EET CF	03/09/23 09:21
Total/NA	Analysis	8270E SIM		1	381367	V7YZ	EET CF	03/15/23 13:41
Total/NA	Prep	WI GRO			380939	ZB9H	EET CF	03/09/23 17:36
Total/NA	Analysis	WI-GRO		1	380938	ZB9H	EET CF	03/10/23 03:56
Total/NA	Prep	WI DRO PREP			380888	GW4G	EET CF	03/09/23 09:19
Total/NA	Analysis	WI-DRO		1	381062	C3AA	EET CF	03/13/23 11:31
Total/NA	Prep	3050B			380992	DHM5	EET CF	03/14/23 10:30
Total/NA	Analysis	6020B		5	381311	A6US	EET CF	03/14/23 17:20
Total/NA	Prep	7471B			381144	DHM5	EET CF	03/13/23 12:01
Total/NA	Analysis	7471B		1	381310	XXW3	EET CF	03/14/23 16:06

**Client Sample ID: B-08 (3-4)**

**Lab Sample ID: 310-250925-13**

Date Collected: 03/06/23 15:00

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	380854	DGU1	EET CF	03/09/23 06:48

**Client Sample ID: B-08 (3-4)**

**Lab Sample ID: 310-250925-13**

Date Collected: 03/06/23 15:00

Matrix: Solid

Date Received: 03/08/23 09:30

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 19:51
Total/NA	Prep	3546			380889	GW4G	EET CF	03/09/23 09:21
Total/NA	Analysis	8270E SIM		1	381367	V7YZ	EET CF	03/15/23 14:01
Total/NA	Prep	WI GRO			380939	ZB9H	EET CF	03/09/23 17:36
Total/NA	Analysis	WI-GRO		1	380938	ZB9H	EET CF	03/10/23 04:27
Total/NA	Prep	WI DRO PREP			380888	GW4G	EET CF	03/09/23 09:19
Total/NA	Analysis	WI-DRO		1	381062	C3AA	EET CF	03/13/23 12:05
Total/NA	Prep	3050B			380992	DHM5	EET CF	03/14/23 10:30
Total/NA	Analysis	6020B		5	381311	A6US	EET CF	03/14/23 17:23
Total/NA	Prep	7471B			381144	DHM5	EET CF	03/13/23 12:01
Total/NA	Analysis	7471B		1	381310	XXW3	EET CF	03/14/23 16:08

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 310-250925-1  
SDG: 171568

**Client Sample ID: Trip Blank (Soil)**

**Lab Sample ID: 310-250925-15**

Date Collected: 03/06/23 00:00

Matrix: Solid

Date Received: 03/08/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			380853	MZR8	EET CF	03/09/23 06:45
Total/NA	Analysis	8260D		1	380856	FE5V	EET CF	03/10/23 20:15

**Laboratory References:**

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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# Accreditation/Certification Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

## Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Minnesota	NELAP	019-999-319	12-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	Dichlorofluoromethane
8260D	5035	Solid	Dichlorofluoromethane
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

North Dakota	State	R-186	09-29-23
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The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
WI-DRO	3510C	Water	Diesel Range Organics (DRO)
WI-DRO	WI DRO PREP	Solid	Diesel Range Organics (DRO)
WI-GRO		Water	Wisconsin GRO
WI-GRO	WI GRO	Solid	Wisconsin GRO

# Method Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 310-250925-1  
 SDG: 171568

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET CF
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	EET CF
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7471B	Mercury (CVAA)	SW846	EET CF
Moisture	Percent Moisture	EPA	EET CF
3050B	Preparation, Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3546	Microwave Extraction	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
5035	Closed System Purge and Trap	SW846	EET CF
7471B	Preparation, Mercury	SW846	EET CF
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	EET CF
WI GRO	Closed System Purge and Trap	WI-GRO	EET CF

**Protocol References:**

- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.
- WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

**Laboratory References:**

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401





Environment Testing  
America



310-250925 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client: <u>SEH</u>			
City/State:	CITY <u>St. Paul</u>	STATE <u>MN</u>	Project:
<b>Receipt Information</b>			
Date/Time Received:	DATE <u>3/8/23</u>	TIME <u>0930</u>	Received By: <u>J</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? <u>↓</u>	
<b>Temperature Record</b>			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID:	<u>T</u>	Correction Factor (°C):	<u>TDI</u>
Temp Blank Temperature: If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>21</u>	Corrected Temp (°C):	<u>22</u>
<b>Sample Container Temperature</b>			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			
<u>received 2 broken trip blanks received 2 empty Ambr</u>			
<u>250 HCL bottles</u>			





Environment Testing  
America

Place COC scanning label  
here

Cooler/Sample Receipt and Temperature Log Form

<b>Client Information</b>			
Client: <u>SEH</u>			
City/State:	CITY <u>St. Paul</u>	STATE <u>MN</u>	Project:
<b>Receipt Information</b>			
Date/Time Received:	DATE <u>3/8/23</u>	TIME <u>0930</u>	Received By: <u>J</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
<b>Condition of Cooler/Containers</b>			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<b>Temperature Record</b>			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID:	<u>T</u>	Correction Factor (°C):	<u>TDI</u>
Temp Blank Temperature: If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>5.2</u>	Corrected Temp (°C):	<u>5.2</u>
<b>Sample Container Temperature</b>			
Container(s) used:	CONTAINER 1	CONTAINER 2	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
<b>Exceptions Noted</b>			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
<b>Additional Comments</b>			





**Eurofins Cedar Falls**

3019 Venture Way  
Cedar Falls IA 50613  
Phone (319) 277-2401 Phone (319) 277-2425

**Chain of Custody Record**

**Eurofins Duluth SC 269**



Environment Test  
America

Client Information		Sampler	Lab PM	Carrier Tracking No(s)	COC No:								
Client Contact: Jennifer Force		Elliot Allen											
Company: SEH		Phone: 218.343.0488	E-Mail: eallen@sehinc.com	State of Origin:	Page 1 of 2								
Address: 3535 Vadnais Center Dr		PWSID:		Job #:									
City: St. Paul		Due Date Requested:		Analysis Requested									
State, Zip: MN 55116		TAT Requested (days): 5 days		M - Hexane									
Phone: 651.424.0335		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		N - Nont									
Email: jforce@sehinc.com		PO #:		O - AsNaO2									
Project Name: ATCT Site 6		WO #:		P - Na2O4S									
Site:		Project #: Duluth 171568		Q - Na2SO3									
		SSOW#:		R - Na2S2O3									
				S - H2SO4									
				T - TSP Dodecahydrate									
				U - Acetone									
				V - MCAA									
				W - pH 4-5									
				Y - Trizma									
				Z - other (specify)									
				Other:									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Organic)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCS	PCBs	PAHs	RCRA metals	Moisture	Total Number of Containers	Special Instructions/Note
B-01w (9.67)	3/6	1215	G	W	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X			X	
B-02w (9.50)		1315											
B-07w (9.10)		1400											
B-06w (8.75)		1420											
B-06w (9.00)		1545											
B-05 (1.5-7.5)		930		S									
B-03 (1.5-2.5)		1000											
B-04 (2-3)		1100											
B-01 (5-6)		1200											
B-02 (3-4)		1230											
B-07 (2.5-3.5)		1320											
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I II III IV Other (specify)													
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Special Instructions/QC Requirements.													
<b>Empty Kit Relinquished by</b>													
Relinquished by: Elliot Allen Date: 3/7 1600 Company:													
Relinquished by: Date/Time: Company:													
Relinquished by: Date/Time: Company:													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:													



Sampler		Lab Pmt		Carrier Tracking No(s)		COC No:	
Phone:		E-Mail:		State of Origin:		Page <u>2</u> of <u>2</u>	
Company		PWSID		Analysis Requested			
Address:		Due Date Requested:		Total Number of Containers			
City:		TAT Requested (days):		Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>			
State, Zip:		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>			
Phone:		PO #:		Special Instructions/Note:			
Email:		WG #:		Preservation Codes:			
Project Name:		Project #:		M - Hexane			
Site:		SSOW#:		A - HCL			
				N - Nont			
				C - AsNaO2			
				P - Na2O4S			
				D - Nitric Acid			
				Q - Na2SO3			
				R - Na2S2O3			
				S - H2SO4			
				T - TSP Dodecahydrate			
				U - Acetone			
				V - MCAA			
				W - pH 4-5			
				Y - Trizma			
				Z - other (specify)			
				Other			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
B-06 (5-6)		3/6		1415		G S	
B-04 (3-4)		J		1500		J	
Trip blank (water)							
Trip blank (soil)							
Possible Hazard Identification		Pouison B <input type="checkbox"/>		Unknown <input type="checkbox"/>		Radiological <input type="checkbox"/>	
Non-Hazard <input type="checkbox"/>		Flammable <input type="checkbox"/>		Skin Irritant <input type="checkbox"/>		Other (specify)	
Deliverable Requested I II III IV		Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Empty Kit Relinquished by		Date:		Method of Shipment		Special Instructions/QC Requirements	
Relinquished by		Date/Time:		Received by		Date/Time:	
Relinquished by		Date/Time:		Received by		Date/Time:	
Relinquished by		Date/Time:		Received by		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks			



## Login Sample Receipt Checklist

Client: Short Elliott Hendrickson, Inc. dba SEH

Job Number: 310-250925-1

SDG Number: 171568

**Login Number: 250925**

**List Number: 1**

**Creator: Homolar, Dana J**

**List Source: Eurofins Cedar Falls**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jennifer Force  
Short Elliott Hendrickson, Inc. dba SEH  
3535 Vadnais Center Drive  
St. Paul, Minnesota 55110

Generated 3/20/2023 5:32:22 PM

## JOB DESCRIPTION

ATCT Site 6  
SDG NUMBER 200-67180

## JOB NUMBER

200-67180-1

# Eurofins Burlington

## Job Notes

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

## Authorization



Generated  
3/20/2023 5:32:22 PM

Authorized for release by  
Kathryn Kelly, Project Manager II  
[Kathryn.Kelly@et.eurofinsus.com](mailto:Kathryn.Kelly@et.eurofinsus.com)  
(802)923-1021



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# Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

## Qualifiers

### Air - GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### Air - GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
N	This flag indicates the presumptive evidence of a compound.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

**Job ID: 200-67180-1**

**Laboratory: Eurofins Burlington**

**Narrative**

## CASE NARRATIVE

**Client: Short Elliott Hendrickson, Inc. dba SEH**

**Project: ATCT Site 6**

**Report Number: 200-67180-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 03/08/2023; the samples arrived in good condition.

### **VOLATILE ORGANIC COMPOUNDS**

Samples SSV-01, SSV-02, SSV-03 and SSV-04 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 03/17/2023 and 03/18/2023.

Several analytes were detected in method blank MB 200-189444/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Trichlorofluoromethane exceeded the RPD limit for the duplicate of sample SSV-01DU. Refer to the QC report for details.

Samples SSV-01[10X], SSV-02[10X], SSV-03[10X] and SSV-04[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-01**

**Lab Sample ID: 200-67180-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	1.4	J B	2.0	0.50	ppb v/v	10		TO-15	Total/NA
Ethanol	45	J	50	26	ppb v/v	10		TO-15	Total/NA
Acetone	59		50	16	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	28	J	50	16	ppb v/v	10		TO-15	Total/NA
n-Hexane	2.3	J	5.0	1.1	ppb v/v	10		TO-15	Total/NA
Cyclohexane	4.4	B	2.0	0.58	ppb v/v	10		TO-15	Total/NA
Benzene	0.87	J B	2.0	0.44	ppb v/v	10		TO-15	Total/NA
n-Heptane	22	B	2.0	0.55	ppb v/v	10		TO-15	Total/NA
Toluene	9.9	B	2.0	0.42	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	6.3	B	2.0	0.21	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	2.3	B	2.0	0.52	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	3.5	J B	5.0	0.95	ppb v/v	10		TO-15	Total/NA
Xylene, o-	1.6	J B	2.0	0.52	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.92	J B	2.0	0.80	ppb v/v	10		TO-15	Total/NA
Naphthalene	5.5		5.0	3.0	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	8.0	J B	11	2.8	ug/m3	10		TO-15	Total/NA
Ethanol	84	J	94	49	ug/m3	10		TO-15	Total/NA
Acetone	140		120	38	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	68	J	120	39	ug/m3	10		TO-15	Total/NA
n-Hexane	8.0	J	18	3.9	ug/m3	10		TO-15	Total/NA
Cyclohexane	15	B	6.9	2.0	ug/m3	10		TO-15	Total/NA
Benzene	2.8	J B	6.4	1.4	ug/m3	10		TO-15	Total/NA
n-Heptane	91	B	8.2	2.3	ug/m3	10		TO-15	Total/NA
Toluene	37	B	7.5	1.6	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	43	B	14	1.4	ug/m3	10		TO-15	Total/NA
Ethylbenzene	10	B	8.7	2.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene	15	J B	22	4.1	ug/m3	10		TO-15	Total/NA
Xylene, o-	7.0	J B	8.7	2.3	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	4.5	J B	9.8	3.9	ug/m3	10		TO-15	Total/NA
Naphthalene	29		26	16	ug/m3	10		TO-15	Total/NA

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67180-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	50		50	26	ppb v/v	10		TO-15	Total/NA
Acetone	72		50	16	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	17	J	50	16	ppb v/v	10		TO-15	Total/NA
n-Hexane	1.4	J	5.0	1.1	ppb v/v	10		TO-15	Total/NA
Cyclohexane	1.3	J B	2.0	0.58	ppb v/v	10		TO-15	Total/NA
Benzene	1.5	J B	2.0	0.44	ppb v/v	10		TO-15	Total/NA
n-Heptane	5.8	B	2.0	0.55	ppb v/v	10		TO-15	Total/NA
Toluene	7.0	B	2.0	0.42	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	2.5	B	2.0	0.21	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	1.1	J B	2.0	0.52	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	3.3	J B	5.0	0.95	ppb v/v	10		TO-15	Total/NA
Xylene, o-	1.3	J B	2.0	0.52	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	93		94	49	ug/m3	10		TO-15	Total/NA
Acetone	170		120	38	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	43	J	120	39	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

## Client Sample ID: SSV-02 (Continued)

## Lab Sample ID: 200-67180-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	4.8	J	18	3.9	ug/m3	10		TO-15	Total/NA
Cyclohexane	4.5	J B	6.9	2.0	ug/m3	10		TO-15	Total/NA
Benzene	4.8	J B	6.4	1.4	ug/m3	10		TO-15	Total/NA
n-Heptane	24	B	8.2	2.3	ug/m3	10		TO-15	Total/NA
Toluene	26	B	7.5	1.6	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	17	B	14	1.4	ug/m3	10		TO-15	Total/NA
Ethylbenzene	4.8	J B	8.7	2.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene	14	J B	22	4.1	ug/m3	10		TO-15	Total/NA
Xylene, o-	5.5	J B	8.7	2.3	ug/m3	10		TO-15	Total/NA

## Client Sample ID: SSV-03

## Lab Sample ID: 200-67180-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	42	J	50	26	ppb v/v	10		TO-15	Total/NA
Acetone	66		50	16	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	760	E	50	16	ppb v/v	10		TO-15	Total/NA
n-Hexane	33		5.0	1.1	ppb v/v	10		TO-15	Total/NA
Cyclohexane	68	B	2.0	0.58	ppb v/v	10		TO-15	Total/NA
Benzene	0.60	J B	2.0	0.44	ppb v/v	10		TO-15	Total/NA
n-Heptane	340	B	2.0	0.55	ppb v/v	10		TO-15	Total/NA
Toluene	5.5	B	2.0	0.42	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	15	B	2.0	0.21	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.69	J B	2.0	0.52	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	2.5	J B	5.0	0.95	ppb v/v	10		TO-15	Total/NA
Xylene, o-	1.1	J B	2.0	0.52	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	80	J	94	49	ug/m3	10		TO-15	Total/NA
Acetone	160		120	38	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	1900	E	120	39	ug/m3	10		TO-15	Total/NA
n-Hexane	110		18	3.9	ug/m3	10		TO-15	Total/NA
Cyclohexane	230	B	6.9	2.0	ug/m3	10		TO-15	Total/NA
Benzene	1.9	J B	6.4	1.4	ug/m3	10		TO-15	Total/NA
n-Heptane	1400	B	8.2	2.3	ug/m3	10		TO-15	Total/NA
Toluene	21	B	7.5	1.6	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	98	B	14	1.4	ug/m3	10		TO-15	Total/NA
Ethylbenzene	3.0	J B	8.7	2.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene	11	J B	22	4.1	ug/m3	10		TO-15	Total/NA
Xylene, o-	4.6	J B	8.7	2.3	ug/m3	10		TO-15	Total/NA

## Client Sample ID: SSV-04

## Lab Sample ID: 200-67180-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	33	J	50	26	ppb v/v	10		TO-15	Total/NA
Acetone	140		50	16	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	45	J	50	16	ppb v/v	10		TO-15	Total/NA
n-Hexane	2.0	J	5.0	1.1	ppb v/v	10		TO-15	Total/NA
Cyclohexane	3.9	B	2.0	0.58	ppb v/v	10		TO-15	Total/NA
Benzene	0.57	J B	2.0	0.44	ppb v/v	10		TO-15	Total/NA
n-Heptane	20	B	2.0	0.55	ppb v/v	10		TO-15	Total/NA
Toluene	3.6	B	2.0	0.42	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	43	B	2.0	0.21	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	0.68	J B	2.0	0.52	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

Client Sample ID: SSV-04 (Continued)

Lab Sample ID: 200-67180-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	2.4	J B	5.0	0.95	ppb v/v	10		TO-15	Total/NA
Xylene, o-	0.94	J B	2.0	0.52	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	63	J	94	49	ug/m3	10		TO-15	Total/NA
Acetone	340		120	38	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	110	J	120	39	ug/m3	10		TO-15	Total/NA
n-Hexane	7.1	J	18	3.9	ug/m3	10		TO-15	Total/NA
Cyclohexane	13	B	6.9	2.0	ug/m3	10		TO-15	Total/NA
Benzene	1.8	J B	6.4	1.4	ug/m3	10		TO-15	Total/NA
n-Heptane	81	B	8.2	2.3	ug/m3	10		TO-15	Total/NA
Toluene	14	B	7.5	1.6	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	290	B	14	1.4	ug/m3	10		TO-15	Total/NA
Ethylbenzene	2.9	J B	8.7	2.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene	10	J B	22	4.1	ug/m3	10		TO-15	Total/NA
Xylene, o-	4.1	J B	8.7	2.3	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-01**

**Lab Sample ID: 200-67180-1**

**Date Collected: 03/07/23 13:39**

**Matrix: Air**

**Date Received: 03/08/23 10:30**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	50	U	50	12	ppb v/v			03/17/23 21:26	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			03/17/23 21:26	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.48	ppb v/v			03/17/23 21:26	10
Chloromethane	5.0	U	5.0	1.5	ppb v/v			03/17/23 21:26	10
Vinyl chloride	2.0	U	2.0	0.21	ppb v/v			03/17/23 21:26	10
1,3-Butadiene	2.0	U	2.0	0.39	ppb v/v			03/17/23 21:26	10
Bromomethane	2.0	U	2.0	0.71	ppb v/v			03/17/23 21:26	10
Chloroethane	5.0	U	5.0	1.8	ppb v/v			03/17/23 21:26	10
<b>Trichlorofluoromethane</b>	<b>1.4</b>	<b>J B</b>	2.0	0.50	ppb v/v			03/17/23 21:26	10
<b>Ethanol</b>	<b>45</b>	<b>J</b>	50	26	ppb v/v			03/17/23 21:26	10
Freon TF	2.0	U	2.0	0.53	ppb v/v			03/17/23 21:26	10
1,1-Dichloroethene	2.0	U	2.0	0.26	ppb v/v			03/17/23 21:26	10
<b>Acetone</b>	<b>59</b>		50	16	ppb v/v			03/17/23 21:26	10
<b>Isopropyl alcohol</b>	<b>28</b>	<b>J</b>	50	16	ppb v/v			03/17/23 21:26	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			03/17/23 21:26	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			03/17/23 21:26	10
Methyl tert-butyl ether	2.0	U	2.0	0.36	ppb v/v			03/17/23 21:26	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			03/17/23 21:26	10
<b>n-Hexane</b>	<b>2.3</b>	<b>J</b>	5.0	1.1	ppb v/v			03/17/23 21:26	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			03/17/23 21:26	10
Ethyl acetate	50	U	50	16	ppb v/v			03/17/23 21:26	10
Methyl Ethyl Ketone	5.0	U	5.0	4.9	ppb v/v			03/17/23 21:26	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.21	ppb v/v			03/17/23 21:26	10
Chloroform	2.0	U	2.0	0.41	ppb v/v			03/17/23 21:26	10
Tetrahydrofuran	50	U	50	13	ppb v/v			03/17/23 21:26	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			03/17/23 21:26	10
<b>Cyclohexane</b>	<b>4.4</b>	<b>B</b>	2.0	0.58	ppb v/v			03/17/23 21:26	10
Carbon tetrachloride	2.0	U	2.0	0.22	ppb v/v			03/17/23 21:26	10
<b>Benzene</b>	<b>0.87</b>	<b>J B</b>	2.0	0.44	ppb v/v			03/17/23 21:26	10
1,2-Dichloroethane	2.0	U	2.0	0.93	ppb v/v			03/17/23 21:26	10
<b>n-Heptane</b>	<b>22</b>	<b>B</b>	2.0	0.55	ppb v/v			03/17/23 21:26	10
Trichloroethene	2.0	U	2.0	0.25	ppb v/v			03/17/23 21:26	10
1,2-Dichloropropane	2.0	U	2.0	0.94	ppb v/v			03/17/23 21:26	10
Bromodichloromethane	2.0	U	2.0	0.50	ppb v/v			03/17/23 21:26	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.45	ppb v/v			03/17/23 21:26	10
Methyl isobutyl ketone	5.0	U	5.0	1.3	ppb v/v			03/17/23 21:26	10
<b>Toluene</b>	<b>9.9</b>	<b>B</b>	2.0	0.42	ppb v/v			03/17/23 21:26	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.54	ppb v/v			03/17/23 21:26	10
1,1,2-Trichloroethane	2.0	U	2.0	0.74	ppb v/v			03/17/23 21:26	10
<b>Tetrachloroethene</b>	<b>6.3</b>	<b>B</b>	2.0	0.21	ppb v/v			03/17/23 21:26	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	1.5	ppb v/v			03/17/23 21:26	10
1,2-Dibromoethane	2.0	U	2.0	0.42	ppb v/v			03/17/23 21:26	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			03/17/23 21:26	10
<b>Ethylbenzene</b>	<b>2.3</b>	<b>B</b>	2.0	0.52	ppb v/v			03/17/23 21:26	10
<b>m,p-Xylene</b>	<b>3.5</b>	<b>J B</b>	5.0	0.95	ppb v/v			03/17/23 21:26	10
<b>Xylene, o-</b>	<b>1.6</b>	<b>J B</b>	2.0	0.52	ppb v/v			03/17/23 21:26	10
Styrene	2.0	U	2.0	0.59	ppb v/v			03/17/23 21:26	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			03/17/23 21:26	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-01**

**Lab Sample ID: 200-67180-1**

Date Collected: 03/07/23 13:39

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			03/17/23 21:26	10
4-Ethyltoluene	2.0	U	2.0	0.49	ppb v/v			03/17/23 21:26	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			03/17/23 21:26	10
<b>1,2,4-Trimethylbenzene</b>	<b>0.92</b>	<b>J B</b>	2.0	0.80	ppb v/v			03/17/23 21:26	10
1,3-Dichlorobenzene	2.0	U	2.0	0.74	ppb v/v			03/17/23 21:26	10
1,4-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			03/17/23 21:26	10
Benzyl chloride	2.0	U	2.0	0.88	ppb v/v			03/17/23 21:26	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			03/17/23 21:26	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.3	ppb v/v			03/17/23 21:26	10
Hexachlorobutadiene	2.0	U	2.0	1.1	ppb v/v			03/17/23 21:26	10
<b>Naphthalene</b>	<b>5.5</b>		5.0	3.0	ppb v/v			03/17/23 21:26	10
Dibromochloromethane	2.0	U	2.0	0.63	ppb v/v			03/17/23 21:26	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	86	U	86	21	ug/m3			03/17/23 21:26	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			03/17/23 21:26	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.4	ug/m3			03/17/23 21:26	10
Chloromethane	10	U	10	3.1	ug/m3			03/17/23 21:26	10
Vinyl chloride	5.1	U	5.1	0.54	ug/m3			03/17/23 21:26	10
1,3-Butadiene	4.4	U	4.4	0.86	ug/m3			03/17/23 21:26	10
Bromomethane	7.8	U	7.8	2.8	ug/m3			03/17/23 21:26	10
Chloroethane	13	U	13	4.7	ug/m3			03/17/23 21:26	10
<b>Trichlorofluoromethane</b>	<b>8.0</b>	<b>J B</b>	11	2.8	ug/m3			03/17/23 21:26	10
<b>Ethanol</b>	<b>84</b>	<b>J</b>	94	49	ug/m3			03/17/23 21:26	10
Freon TF	15	U	15	4.1	ug/m3			03/17/23 21:26	10
1,1-Dichloroethene	7.9	U	7.9	1.0	ug/m3			03/17/23 21:26	10
<b>Acetone</b>	<b>140</b>		120	38	ug/m3			03/17/23 21:26	10
<b>Isopropyl alcohol</b>	<b>68</b>	<b>J</b>	120	39	ug/m3			03/17/23 21:26	10
Carbon disulfide	16	U	16	4.0	ug/m3			03/17/23 21:26	10
Methylene Chloride	17	U	17	6.3	ug/m3			03/17/23 21:26	10
Methyl tert-butyl ether	7.2	U	7.2	1.3	ug/m3			03/17/23 21:26	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			03/17/23 21:26	10
<b>n-Hexane</b>	<b>8.0</b>	<b>J</b>	18	3.9	ug/m3			03/17/23 21:26	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			03/17/23 21:26	10
Ethyl acetate	180	U	180	58	ug/m3			03/17/23 21:26	10
Methyl Ethyl Ketone	15	U	15	14	ug/m3			03/17/23 21:26	10
cis-1,2-Dichloroethene	7.9	U	7.9	0.83	ug/m3			03/17/23 21:26	10
Chloroform	9.8	U	9.8	2.0	ug/m3			03/17/23 21:26	10
Tetrahydrofuran	150	U	150	38	ug/m3			03/17/23 21:26	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			03/17/23 21:26	10
<b>Cyclohexane</b>	<b>15</b>	<b>B</b>	6.9	2.0	ug/m3			03/17/23 21:26	10
Carbon tetrachloride	13	U	13	1.4	ug/m3			03/17/23 21:26	10
<b>Benzene</b>	<b>2.8</b>	<b>J B</b>	6.4	1.4	ug/m3			03/17/23 21:26	10
1,2-Dichloroethane	8.1	U	8.1	3.8	ug/m3			03/17/23 21:26	10
<b>n-Heptane</b>	<b>91</b>	<b>B</b>	8.2	2.3	ug/m3			03/17/23 21:26	10
Trichloroethene	11	U	11	1.3	ug/m3			03/17/23 21:26	10
1,2-Dichloropropane	9.2	U	9.2	4.3	ug/m3			03/17/23 21:26	10
Bromodichloromethane	13	U	13	3.4	ug/m3			03/17/23 21:26	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.0	ug/m3			03/17/23 21:26	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

**Client Sample ID: SSV-01**

**Lab Sample ID: 200-67180-1**

Date Collected: 03/07/23 13:39

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl isobutyl ketone	20	U	20	5.3	ug/m3			03/17/23 21:26	10
<b>Toluene</b>	<b>37</b>	<b>B</b>	7.5	1.6	ug/m3			03/17/23 21:26	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			03/17/23 21:26	10
1,1,2-Trichloroethane	11	U	11	4.0	ug/m3			03/17/23 21:26	10
<b>Tetrachloroethene</b>	<b>43</b>	<b>B</b>	14	1.4	ug/m3			03/17/23 21:26	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	6.1	ug/m3			03/17/23 21:26	10
1,2-Dibromoethane	15	U	15	3.2	ug/m3			03/17/23 21:26	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			03/17/23 21:26	10
<b>Ethylbenzene</b>	<b>10</b>	<b>B</b>	8.7	2.3	ug/m3			03/17/23 21:26	10
<b>m,p-Xylene</b>	<b>15</b>	<b>J B</b>	22	4.1	ug/m3			03/17/23 21:26	10
<b>Xylene, o-</b>	<b>7.0</b>	<b>J B</b>	8.7	2.3	ug/m3			03/17/23 21:26	10
Styrene	8.5	U	8.5	2.5	ug/m3			03/17/23 21:26	10
Bromoform	21	U	21	12	ug/m3			03/17/23 21:26	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			03/17/23 21:26	10
4-Ethyltoluene	9.8	U	9.8	2.4	ug/m3			03/17/23 21:26	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			03/17/23 21:26	10
<b>1,2,4-Trimethylbenzene</b>	<b>4.5</b>	<b>J B</b>	9.8	3.9	ug/m3			03/17/23 21:26	10
1,3-Dichlorobenzene	12	U	12	4.4	ug/m3			03/17/23 21:26	10
1,4-Dichlorobenzene	12	U	12	5.4	ug/m3			03/17/23 21:26	10
Benzyl chloride	10	U	10	4.6	ug/m3			03/17/23 21:26	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			03/17/23 21:26	10
1,2,4-Trichlorobenzene	37	U	37	24	ug/m3			03/17/23 21:26	10
Hexachlorobutadiene	21	U	21	12	ug/m3			03/17/23 21:26	10
<b>Naphthalene</b>	<b>29</b>		26	16	ug/m3			03/17/23 21:26	10
Dibromochloromethane	17	U	17	5.4	ug/m3			03/17/23 21:26	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Pentane, 3,3-dimethyl-	10	J N	ppb v/v		11.46	562-49-2		03/17/23 21:26	10
Hexane, 2-methyl-	75	J N	ppb v/v		11.72	591-76-4		03/17/23 21:26	10
Pentane, 2,3-dimethyl-	30	J N	ppb v/v		11.88	565-59-3		03/17/23 21:26	10
Hexane, 3-methyl-	94	J N	ppb v/v		12.04	589-34-4		03/17/23 21:26	10

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67180-2**

Date Collected: 03/07/23 14:01

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	50	U	50	12	ppb v/v			03/17/23 23:10	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			03/17/23 23:10	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.48	ppb v/v			03/17/23 23:10	10
Chloromethane	5.0	U	5.0	1.5	ppb v/v			03/17/23 23:10	10
Vinyl chloride	2.0	U	2.0	0.21	ppb v/v			03/17/23 23:10	10
1,3-Butadiene	2.0	U	2.0	0.39	ppb v/v			03/17/23 23:10	10
Bromomethane	2.0	U	2.0	0.71	ppb v/v			03/17/23 23:10	10
Chloroethane	5.0	U	5.0	1.8	ppb v/v			03/17/23 23:10	10
Trichlorofluoromethane	2.0	U	2.0	0.50	ppb v/v			03/17/23 23:10	10
<b>Ethanol</b>	<b>50</b>		50	26	ppb v/v			03/17/23 23:10	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67180-2**

**Date Collected: 03/07/23 14:01**

**Matrix: Air**

**Date Received: 03/08/23 10:30**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Freon TF	2.0	U	2.0	0.53	ppb v/v			03/17/23 23:10	10
1,1-Dichloroethene	2.0	U	2.0	0.26	ppb v/v			03/17/23 23:10	10
<b>Acetone</b>	<b>72</b>		50	16	ppb v/v			03/17/23 23:10	10
<b>Isopropyl alcohol</b>	<b>17 J</b>		50	16	ppb v/v			03/17/23 23:10	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			03/17/23 23:10	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			03/17/23 23:10	10
Methyl tert-butyl ether	2.0	U	2.0	0.36	ppb v/v			03/17/23 23:10	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			03/17/23 23:10	10
<b>n-Hexane</b>	<b>1.4 J</b>		5.0	1.1	ppb v/v			03/17/23 23:10	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			03/17/23 23:10	10
Ethyl acetate	50	U	50	16	ppb v/v			03/17/23 23:10	10
Methyl Ethyl Ketone	5.0	U	5.0	4.9	ppb v/v			03/17/23 23:10	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.21	ppb v/v			03/17/23 23:10	10
Chloroform	2.0	U	2.0	0.41	ppb v/v			03/17/23 23:10	10
Tetrahydrofuran	50	U	50	13	ppb v/v			03/17/23 23:10	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			03/17/23 23:10	10
<b>Cyclohexane</b>	<b>1.3 J B</b>		2.0	0.58	ppb v/v			03/17/23 23:10	10
Carbon tetrachloride	2.0	U	2.0	0.22	ppb v/v			03/17/23 23:10	10
<b>Benzene</b>	<b>1.5 J B</b>		2.0	0.44	ppb v/v			03/17/23 23:10	10
1,2-Dichloroethane	2.0	U	2.0	0.93	ppb v/v			03/17/23 23:10	10
<b>n-Heptane</b>	<b>5.8 B</b>		2.0	0.55	ppb v/v			03/17/23 23:10	10
Trichloroethene	2.0	U	2.0	0.25	ppb v/v			03/17/23 23:10	10
1,2-Dichloropropane	2.0	U	2.0	0.94	ppb v/v			03/17/23 23:10	10
Bromodichloromethane	2.0	U	2.0	0.50	ppb v/v			03/17/23 23:10	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.45	ppb v/v			03/17/23 23:10	10
Methyl isobutyl ketone	5.0	U	5.0	1.3	ppb v/v			03/17/23 23:10	10
<b>Toluene</b>	<b>7.0 B</b>		2.0	0.42	ppb v/v			03/17/23 23:10	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.54	ppb v/v			03/17/23 23:10	10
1,1,2-Trichloroethane	2.0	U	2.0	0.74	ppb v/v			03/17/23 23:10	10
<b>Tetrachloroethene</b>	<b>2.5 B</b>		2.0	0.21	ppb v/v			03/17/23 23:10	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	1.5	ppb v/v			03/17/23 23:10	10
1,2-Dibromoethane	2.0	U	2.0	0.42	ppb v/v			03/17/23 23:10	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			03/17/23 23:10	10
<b>Ethylbenzene</b>	<b>1.1 J B</b>		2.0	0.52	ppb v/v			03/17/23 23:10	10
<b>m,p-Xylene</b>	<b>3.3 J B</b>		5.0	0.95	ppb v/v			03/17/23 23:10	10
<b>Xylene, o-</b>	<b>1.3 J B</b>		2.0	0.52	ppb v/v			03/17/23 23:10	10
Styrene	2.0	U	2.0	0.59	ppb v/v			03/17/23 23:10	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			03/17/23 23:10	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			03/17/23 23:10	10
4-Ethyltoluene	2.0	U	2.0	0.49	ppb v/v			03/17/23 23:10	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			03/17/23 23:10	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.80	ppb v/v			03/17/23 23:10	10
1,3-Dichlorobenzene	2.0	U	2.0	0.74	ppb v/v			03/17/23 23:10	10
1,4-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			03/17/23 23:10	10
Benzyl chloride	2.0	U	2.0	0.88	ppb v/v			03/17/23 23:10	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			03/17/23 23:10	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.3	ppb v/v			03/17/23 23:10	10
Hexachlorobutadiene	2.0	U	2.0	1.1	ppb v/v			03/17/23 23:10	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67180-2**

Date Collected: 03/07/23 14:01

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	5.0	U	5.0	3.0	ppb v/v			03/17/23 23:10	10
Dibromochloromethane	2.0	U	2.0	0.63	ppb v/v			03/17/23 23:10	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	86	U	86	21	ug/m3			03/17/23 23:10	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			03/17/23 23:10	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.4	ug/m3			03/17/23 23:10	10
Chloromethane	10	U	10	3.1	ug/m3			03/17/23 23:10	10
Vinyl chloride	5.1	U	5.1	0.54	ug/m3			03/17/23 23:10	10
1,3-Butadiene	4.4	U	4.4	0.86	ug/m3			03/17/23 23:10	10
Bromomethane	7.8	U	7.8	2.8	ug/m3			03/17/23 23:10	10
Chloroethane	13	U	13	4.7	ug/m3			03/17/23 23:10	10
Trichlorofluoromethane	11	U	11	2.8	ug/m3			03/17/23 23:10	10
<b>Ethanol</b>	<b>93</b>		94	49	ug/m3			03/17/23 23:10	10
Freon TF	15	U	15	4.1	ug/m3			03/17/23 23:10	10
1,1-Dichloroethene	7.9	U	7.9	1.0	ug/m3			03/17/23 23:10	10
<b>Acetone</b>	<b>170</b>		120	38	ug/m3			03/17/23 23:10	10
<b>Isopropyl alcohol</b>	<b>43 J</b>		120	39	ug/m3			03/17/23 23:10	10
Carbon disulfide	16	U	16	4.0	ug/m3			03/17/23 23:10	10
Methylene Chloride	17	U	17	6.3	ug/m3			03/17/23 23:10	10
Methyl tert-butyl ether	7.2	U	7.2	1.3	ug/m3			03/17/23 23:10	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			03/17/23 23:10	10
<b>n-Hexane</b>	<b>4.8 J</b>		18	3.9	ug/m3			03/17/23 23:10	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			03/17/23 23:10	10
Ethyl acetate	180	U	180	58	ug/m3			03/17/23 23:10	10
Methyl Ethyl Ketone	15	U	15	14	ug/m3			03/17/23 23:10	10
cis-1,2-Dichloroethene	7.9	U	7.9	0.83	ug/m3			03/17/23 23:10	10
Chloroform	9.8	U	9.8	2.0	ug/m3			03/17/23 23:10	10
Tetrahydrofuran	150	U	150	38	ug/m3			03/17/23 23:10	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			03/17/23 23:10	10
<b>Cyclohexane</b>	<b>4.5 J B</b>		6.9	2.0	ug/m3			03/17/23 23:10	10
Carbon tetrachloride	13	U	13	1.4	ug/m3			03/17/23 23:10	10
<b>Benzene</b>	<b>4.8 J B</b>		6.4	1.4	ug/m3			03/17/23 23:10	10
1,2-Dichloroethane	8.1	U	8.1	3.8	ug/m3			03/17/23 23:10	10
<b>n-Heptane</b>	<b>24 B</b>		8.2	2.3	ug/m3			03/17/23 23:10	10
Trichloroethene	11	U	11	1.3	ug/m3			03/17/23 23:10	10
1,2-Dichloropropane	9.2	U	9.2	4.3	ug/m3			03/17/23 23:10	10
Bromodichloromethane	13	U	13	3.4	ug/m3			03/17/23 23:10	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.0	ug/m3			03/17/23 23:10	10
Methyl isobutyl ketone	20	U	20	5.3	ug/m3			03/17/23 23:10	10
<b>Toluene</b>	<b>26 B</b>		7.5	1.6	ug/m3			03/17/23 23:10	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			03/17/23 23:10	10
1,1,2-Trichloroethane	11	U	11	4.0	ug/m3			03/17/23 23:10	10
<b>Tetrachloroethene</b>	<b>17 B</b>		14	1.4	ug/m3			03/17/23 23:10	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	6.1	ug/m3			03/17/23 23:10	10
1,2-Dibromoethane	15	U	15	3.2	ug/m3			03/17/23 23:10	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			03/17/23 23:10	10
<b>Ethylbenzene</b>	<b>4.8 J B</b>		8.7	2.3	ug/m3			03/17/23 23:10	10
<b>m,p-Xylene</b>	<b>14 J B</b>		22	4.1	ug/m3			03/17/23 23:10	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67180-2**

Date Collected: 03/07/23 14:01

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Xylene, o-</b>	<b>5.5</b>	<b>J B</b>	8.7	2.3	ug/m3			03/17/23 23:10	10
Styrene	8.5	U	8.5	2.5	ug/m3			03/17/23 23:10	10
Bromoform	21	U	21	12	ug/m3			03/17/23 23:10	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			03/17/23 23:10	10
4-Ethyltoluene	9.8	U	9.8	2.4	ug/m3			03/17/23 23:10	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			03/17/23 23:10	10
1,2,4-Trimethylbenzene	9.8	U	9.8	3.9	ug/m3			03/17/23 23:10	10
1,3-Dichlorobenzene	12	U	12	4.4	ug/m3			03/17/23 23:10	10
1,4-Dichlorobenzene	12	U	12	5.4	ug/m3			03/17/23 23:10	10
Benzyl chloride	10	U	10	4.6	ug/m3			03/17/23 23:10	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			03/17/23 23:10	10
1,2,4-Trichlorobenzene	37	U	37	24	ug/m3			03/17/23 23:10	10
Hexachlorobutadiene	21	U	21	12	ug/m3			03/17/23 23:10	10
Naphthalene	26	U	26	16	ug/m3			03/17/23 23:10	10
Dibromochloromethane	17	U	17	5.4	ug/m3			03/17/23 23:10	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Hexane, 2-methyl-	18	J N	ppb v/v		11.72	591-76-4		03/17/23 23:10	10
Hexane, 3-methyl-	23	J N	ppb v/v		12.04	589-34-4		03/17/23 23:10	10

**Client Sample ID: SSV-03**

**Lab Sample ID: 200-67180-3**

Date Collected: 03/07/23 14:26

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	50	U	50	12	ppb v/v			03/18/23 00:02	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			03/18/23 00:02	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.48	ppb v/v			03/18/23 00:02	10
Chloromethane	5.0	U	5.0	1.5	ppb v/v			03/18/23 00:02	10
Vinyl chloride	2.0	U	2.0	0.21	ppb v/v			03/18/23 00:02	10
1,3-Butadiene	2.0	U	2.0	0.39	ppb v/v			03/18/23 00:02	10
Bromomethane	2.0	U	2.0	0.71	ppb v/v			03/18/23 00:02	10
Chloroethane	5.0	U	5.0	1.8	ppb v/v			03/18/23 00:02	10
Trichlorofluoromethane	2.0	U	2.0	0.50	ppb v/v			03/18/23 00:02	10
<b>Ethanol</b>	<b>42</b>	<b>J</b>	50	26	ppb v/v			03/18/23 00:02	10
Freon TF	2.0	U	2.0	0.53	ppb v/v			03/18/23 00:02	10
1,1-Dichloroethene	2.0	U	2.0	0.26	ppb v/v			03/18/23 00:02	10
<b>Acetone</b>	<b>66</b>		50	16	ppb v/v			03/18/23 00:02	10
<b>Isopropyl alcohol</b>	<b>760</b>	<b>E</b>	50	16	ppb v/v			03/18/23 00:02	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			03/18/23 00:02	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			03/18/23 00:02	10
Methyl tert-butyl ether	2.0	U	2.0	0.36	ppb v/v			03/18/23 00:02	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			03/18/23 00:02	10
<b>n-Hexane</b>	<b>33</b>		5.0	1.1	ppb v/v			03/18/23 00:02	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			03/18/23 00:02	10
Ethyl acetate	50	U	50	16	ppb v/v			03/18/23 00:02	10
Methyl Ethyl Ketone	5.0	U	5.0	4.9	ppb v/v			03/18/23 00:02	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-03**

**Lab Sample ID: 200-67180-3**

Date Collected: 03/07/23 14:26

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	2.0	U	2.0	0.21	ppb v/v			03/18/23 00:02	10
Chloroform	2.0	U	2.0	0.41	ppb v/v			03/18/23 00:02	10
Tetrahydrofuran	50	U	50	13	ppb v/v			03/18/23 00:02	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			03/18/23 00:02	10
<b>Cyclohexane</b>	<b>68</b>	<b>B</b>	2.0	0.58	ppb v/v			03/18/23 00:02	10
Carbon tetrachloride	2.0	U	2.0	0.22	ppb v/v			03/18/23 00:02	10
<b>Benzene</b>	<b>0.60</b>	<b>J B</b>	2.0	0.44	ppb v/v			03/18/23 00:02	10
1,2-Dichloroethane	2.0	U	2.0	0.93	ppb v/v			03/18/23 00:02	10
<b>n-Heptane</b>	<b>340</b>	<b>B</b>	2.0	0.55	ppb v/v			03/18/23 00:02	10
Trichloroethene	2.0	U	2.0	0.25	ppb v/v			03/18/23 00:02	10
1,2-Dichloropropane	2.0	U	2.0	0.94	ppb v/v			03/18/23 00:02	10
Bromodichloromethane	2.0	U	2.0	0.50	ppb v/v			03/18/23 00:02	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.45	ppb v/v			03/18/23 00:02	10
Methyl isobutyl ketone	5.0	U	5.0	1.3	ppb v/v			03/18/23 00:02	10
<b>Toluene</b>	<b>5.5</b>	<b>B</b>	2.0	0.42	ppb v/v			03/18/23 00:02	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.54	ppb v/v			03/18/23 00:02	10
1,1,2-Trichloroethane	2.0	U	2.0	0.74	ppb v/v			03/18/23 00:02	10
<b>Tetrachloroethene</b>	<b>15</b>	<b>B</b>	2.0	0.21	ppb v/v			03/18/23 00:02	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	1.5	ppb v/v			03/18/23 00:02	10
1,2-Dibromoethane	2.0	U	2.0	0.42	ppb v/v			03/18/23 00:02	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			03/18/23 00:02	10
<b>Ethylbenzene</b>	<b>0.69</b>	<b>J B</b>	2.0	0.52	ppb v/v			03/18/23 00:02	10
<b>m,p-Xylene</b>	<b>2.5</b>	<b>J B</b>	5.0	0.95	ppb v/v			03/18/23 00:02	10
<b>Xylene, o-</b>	<b>1.1</b>	<b>J B</b>	2.0	0.52	ppb v/v			03/18/23 00:02	10
Styrene	2.0	U	2.0	0.59	ppb v/v			03/18/23 00:02	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			03/18/23 00:02	10
1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			03/18/23 00:02	10
4-Ethyltoluene	2.0	U	2.0	0.49	ppb v/v			03/18/23 00:02	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			03/18/23 00:02	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.80	ppb v/v			03/18/23 00:02	10
1,3-Dichlorobenzene	2.0	U	2.0	0.74	ppb v/v			03/18/23 00:02	10
1,4-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			03/18/23 00:02	10
Benzyl chloride	2.0	U	2.0	0.88	ppb v/v			03/18/23 00:02	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			03/18/23 00:02	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.3	ppb v/v			03/18/23 00:02	10
Hexachlorobutadiene	2.0	U	2.0	1.1	ppb v/v			03/18/23 00:02	10
Naphthalene	5.0	U	5.0	3.0	ppb v/v			03/18/23 00:02	10
Dibromochloromethane	2.0	U	2.0	0.63	ppb v/v			03/18/23 00:02	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	86	U	86	21	ug/m3			03/18/23 00:02	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			03/18/23 00:02	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.4	ug/m3			03/18/23 00:02	10
Chloromethane	10	U	10	3.1	ug/m3			03/18/23 00:02	10
Vinyl chloride	5.1	U	5.1	0.54	ug/m3			03/18/23 00:02	10
1,3-Butadiene	4.4	U	4.4	0.86	ug/m3			03/18/23 00:02	10
Bromomethane	7.8	U	7.8	2.8	ug/m3			03/18/23 00:02	10
Chloroethane	13	U	13	4.7	ug/m3			03/18/23 00:02	10
Trichlorofluoromethane	11	U	11	2.8	ug/m3			03/18/23 00:02	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-03**

**Lab Sample ID: 200-67180-3**

Date Collected: 03/07/23 14:26

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Ethanol</b>	<b>80</b>	<b>J</b>	94	49	ug/m3			03/18/23 00:02	10
Freon TF	15	U	15	4.1	ug/m3			03/18/23 00:02	10
1,1-Dichloroethene	7.9	U	7.9	1.0	ug/m3			03/18/23 00:02	10
<b>Acetone</b>	<b>160</b>		120	38	ug/m3			03/18/23 00:02	10
<b>Isopropyl alcohol</b>	<b>1900</b>	<b>E</b>	120	39	ug/m3			03/18/23 00:02	10
Carbon disulfide	16	U	16	4.0	ug/m3			03/18/23 00:02	10
Methylene Chloride	17	U	17	6.3	ug/m3			03/18/23 00:02	10
Methyl tert-butyl ether	7.2	U	7.2	1.3	ug/m3			03/18/23 00:02	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			03/18/23 00:02	10
<b>n-Hexane</b>	<b>110</b>		18	3.9	ug/m3			03/18/23 00:02	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			03/18/23 00:02	10
Ethyl acetate	180	U	180	58	ug/m3			03/18/23 00:02	10
Methyl Ethyl Ketone	15	U	15	14	ug/m3			03/18/23 00:02	10
cis-1,2-Dichloroethene	7.9	U	7.9	0.83	ug/m3			03/18/23 00:02	10
Chloroform	9.8	U	9.8	2.0	ug/m3			03/18/23 00:02	10
Tetrahydrofuran	150	U	150	38	ug/m3			03/18/23 00:02	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			03/18/23 00:02	10
<b>Cyclohexane</b>	<b>230</b>	<b>B</b>	6.9	2.0	ug/m3			03/18/23 00:02	10
Carbon tetrachloride	13	U	13	1.4	ug/m3			03/18/23 00:02	10
<b>Benzene</b>	<b>1.9</b>	<b>J B</b>	6.4	1.4	ug/m3			03/18/23 00:02	10
1,2-Dichloroethane	8.1	U	8.1	3.8	ug/m3			03/18/23 00:02	10
<b>n-Heptane</b>	<b>1400</b>	<b>B</b>	8.2	2.3	ug/m3			03/18/23 00:02	10
Trichloroethene	11	U	11	1.3	ug/m3			03/18/23 00:02	10
1,2-Dichloropropane	9.2	U	9.2	4.3	ug/m3			03/18/23 00:02	10
Bromodichloromethane	13	U	13	3.4	ug/m3			03/18/23 00:02	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.0	ug/m3			03/18/23 00:02	10
Methyl isobutyl ketone	20	U	20	5.3	ug/m3			03/18/23 00:02	10
<b>Toluene</b>	<b>21</b>	<b>B</b>	7.5	1.6	ug/m3			03/18/23 00:02	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			03/18/23 00:02	10
1,1,2-Trichloroethane	11	U	11	4.0	ug/m3			03/18/23 00:02	10
<b>Tetrachloroethene</b>	<b>98</b>	<b>B</b>	14	1.4	ug/m3			03/18/23 00:02	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	6.1	ug/m3			03/18/23 00:02	10
1,2-Dibromoethane	15	U	15	3.2	ug/m3			03/18/23 00:02	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			03/18/23 00:02	10
<b>Ethylbenzene</b>	<b>3.0</b>	<b>J B</b>	8.7	2.3	ug/m3			03/18/23 00:02	10
<b>m,p-Xylene</b>	<b>11</b>	<b>J B</b>	22	4.1	ug/m3			03/18/23 00:02	10
<b>Xylene, o-</b>	<b>4.6</b>	<b>J B</b>	8.7	2.3	ug/m3			03/18/23 00:02	10
Styrene	8.5	U	8.5	2.5	ug/m3			03/18/23 00:02	10
Bromoform	21	U	21	12	ug/m3			03/18/23 00:02	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			03/18/23 00:02	10
4-Ethyltoluene	9.8	U	9.8	2.4	ug/m3			03/18/23 00:02	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			03/18/23 00:02	10
1,2,4-Trimethylbenzene	9.8	U	9.8	3.9	ug/m3			03/18/23 00:02	10
1,3-Dichlorobenzene	12	U	12	4.4	ug/m3			03/18/23 00:02	10
1,4-Dichlorobenzene	12	U	12	5.4	ug/m3			03/18/23 00:02	10
Benzyl chloride	10	U	10	4.6	ug/m3			03/18/23 00:02	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			03/18/23 00:02	10
1,2,4-Trichlorobenzene	37	U	37	24	ug/m3			03/18/23 00:02	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

**Client Sample ID: SSV-03**

**Lab Sample ID: 200-67180-3**

Date Collected: 03/07/23 14:26

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	21	U	21	12	ug/m3			03/18/23 00:02	10
Naphthalene	26	U	26	16	ug/m3			03/18/23 00:02	10
Dibromochloromethane	17	U	17	5.4	ug/m3			03/18/23 00:02	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Pentane, 2,2-dimethyl-	120	J N	ppb v/v		10.33	590-35-2		03/18/23 00:02	10
Pentane, 2,4-dimethyl-	170	J N	ppb v/v		10.49	108-08-7		03/18/23 00:02	10
Cyclopentane, methyl-	100	J N	ppb v/v		10.63	96-37-7		03/18/23 00:02	10
Unknown	180	J	ppb v/v		11.46	N/A		03/18/23 00:02	10
Hexane, 2-methyl-	1200	J N	ppb v/v		11.73	591-76-4		03/18/23 00:02	10
Pentane, 2,3-dimethyl-	500	J N	ppb v/v		11.89	565-59-3		03/18/23 00:02	10
Hexane, 3-methyl-	1500	J N	ppb v/v		12.04	589-34-4		03/18/23 00:02	10
Pentane, 3-ethyl-	130	J N	ppb v/v		12.42	617-78-7		03/18/23 00:02	10
Cyclopentane, 1,2-dimethyl-, trans-	42	J N	ppb v/v		12.67	822-50-4		03/18/23 00:02	10
Cyclohexane, methyl-	52	J N	ppb v/v		13.90	108-87-2		03/18/23 00:02	10

**Client Sample ID: SSV-04**

**Lab Sample ID: 200-67180-4**

Date Collected: 03/07/23 14:38

Matrix: Air

Date Received: 03/08/23 10:30

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	50	U	50	12	ppb v/v			03/18/23 00:54	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			03/18/23 00:54	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.48	ppb v/v			03/18/23 00:54	10
Chloromethane	5.0	U	5.0	1.5	ppb v/v			03/18/23 00:54	10
Vinyl chloride	2.0	U	2.0	0.21	ppb v/v			03/18/23 00:54	10
1,3-Butadiene	2.0	U	2.0	0.39	ppb v/v			03/18/23 00:54	10
Bromomethane	2.0	U	2.0	0.71	ppb v/v			03/18/23 00:54	10
Chloroethane	5.0	U	5.0	1.8	ppb v/v			03/18/23 00:54	10
Trichlorofluoromethane	2.0	U	2.0	0.50	ppb v/v			03/18/23 00:54	10
<b>Ethanol</b>	<b>33</b>	<b>J</b>	50	26	ppb v/v			03/18/23 00:54	10
Freon TF	2.0	U	2.0	0.53	ppb v/v			03/18/23 00:54	10
1,1-Dichloroethene	2.0	U	2.0	0.26	ppb v/v			03/18/23 00:54	10
<b>Acetone</b>	<b>140</b>		50	16	ppb v/v			03/18/23 00:54	10
<b>Isopropyl alcohol</b>	<b>45</b>	<b>J</b>	50	16	ppb v/v			03/18/23 00:54	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			03/18/23 00:54	10
Methylene Chloride	5.0	U	5.0	1.8	ppb v/v			03/18/23 00:54	10
Methyl tert-butyl ether	2.0	U	2.0	0.36	ppb v/v			03/18/23 00:54	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			03/18/23 00:54	10
<b>n-Hexane</b>	<b>2.0</b>	<b>J</b>	5.0	1.1	ppb v/v			03/18/23 00:54	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			03/18/23 00:54	10
Ethyl acetate	50	U	50	16	ppb v/v			03/18/23 00:54	10
Methyl Ethyl Ketone	5.0	U	5.0	4.9	ppb v/v			03/18/23 00:54	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.21	ppb v/v			03/18/23 00:54	10
Chloroform	2.0	U	2.0	0.41	ppb v/v			03/18/23 00:54	10
Tetrahydrofuran	50	U	50	13	ppb v/v			03/18/23 00:54	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			03/18/23 00:54	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-04**

**Lab Sample ID: 200-67180-4**

**Date Collected: 03/07/23 14:38**

**Matrix: Air**

**Date Received: 03/08/23 10:30**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Cyclohexane</b>	<b>3.9</b>	<b>B</b>	2.0	0.58	ppb v/v			03/18/23 00:54	10
Carbon tetrachloride	2.0	U	2.0	0.22	ppb v/v			03/18/23 00:54	10
<b>Benzene</b>	<b>0.57</b>	<b>J B</b>	2.0	0.44	ppb v/v			03/18/23 00:54	10
1,2-Dichloroethane	2.0	U	2.0	0.93	ppb v/v			03/18/23 00:54	10
<b>n-Heptane</b>	<b>20</b>	<b>B</b>	2.0	0.55	ppb v/v			03/18/23 00:54	10
Trichloroethene	2.0	U	2.0	0.25	ppb v/v			03/18/23 00:54	10
1,2-Dichloropropane	2.0	U	2.0	0.94	ppb v/v			03/18/23 00:54	10
Bromodichloromethane	2.0	U	2.0	0.50	ppb v/v			03/18/23 00:54	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.45	ppb v/v			03/18/23 00:54	10
Methyl isobutyl ketone	5.0	U	5.0	1.3	ppb v/v			03/18/23 00:54	10
<b>Toluene</b>	<b>3.6</b>	<b>B</b>	2.0	0.42	ppb v/v			03/18/23 00:54	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.54	ppb v/v			03/18/23 00:54	10
1,1,2-Trichloroethane	2.0	U	2.0	0.74	ppb v/v			03/18/23 00:54	10
<b>Tetrachloroethene</b>	<b>43</b>	<b>B</b>	2.0	0.21	ppb v/v			03/18/23 00:54	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	1.5	ppb v/v			03/18/23 00:54	10
1,2-Dibromoethane	2.0	U	2.0	0.42	ppb v/v			03/18/23 00:54	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			03/18/23 00:54	10
<b>Ethylbenzene</b>	<b>0.68</b>	<b>J B</b>	2.0	0.52	ppb v/v			03/18/23 00:54	10
<b>m,p-Xylene</b>	<b>2.4</b>	<b>J B</b>	5.0	0.95	ppb v/v			03/18/23 00:54	10
<b>Xylene, o-</b>	<b>0.94</b>	<b>J B</b>	2.0	0.52	ppb v/v			03/18/23 00:54	10
Styrene	2.0	U	2.0	0.59	ppb v/v			03/18/23 00:54	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			03/18/23 00:54	10
1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			03/18/23 00:54	10
4-Ethyltoluene	2.0	U	2.0	0.49	ppb v/v			03/18/23 00:54	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			03/18/23 00:54	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.80	ppb v/v			03/18/23 00:54	10
1,3-Dichlorobenzene	2.0	U	2.0	0.74	ppb v/v			03/18/23 00:54	10
1,4-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			03/18/23 00:54	10
Benzyl chloride	2.0	U	2.0	0.88	ppb v/v			03/18/23 00:54	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			03/18/23 00:54	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.3	ppb v/v			03/18/23 00:54	10
Hexachlorobutadiene	2.0	U	2.0	1.1	ppb v/v			03/18/23 00:54	10
Naphthalene	5.0	U	5.0	3.0	ppb v/v			03/18/23 00:54	10
Dibromochloromethane	2.0	U	2.0	0.63	ppb v/v			03/18/23 00:54	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	86	U	86	21	ug/m3			03/18/23 00:54	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			03/18/23 00:54	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.4	ug/m3			03/18/23 00:54	10
Chloromethane	10	U	10	3.1	ug/m3			03/18/23 00:54	10
Vinyl chloride	5.1	U	5.1	0.54	ug/m3			03/18/23 00:54	10
1,3-Butadiene	4.4	U	4.4	0.86	ug/m3			03/18/23 00:54	10
Bromomethane	7.8	U	7.8	2.8	ug/m3			03/18/23 00:54	10
Chloroethane	13	U	13	4.7	ug/m3			03/18/23 00:54	10
Trichlorofluoromethane	11	U	11	2.8	ug/m3			03/18/23 00:54	10
<b>Ethanol</b>	<b>63</b>	<b>J</b>	94	49	ug/m3			03/18/23 00:54	10
Freon TF	15	U	15	4.1	ug/m3			03/18/23 00:54	10
1,1-Dichloroethene	7.9	U	7.9	1.0	ug/m3			03/18/23 00:54	10
<b>Acetone</b>	<b>340</b>		120	38	ug/m3			03/18/23 00:54	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-04**

**Lab Sample ID: 200-67180-4**

**Date Collected: 03/07/23 14:38**

**Matrix: Air**

**Date Received: 03/08/23 10:30**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Isopropyl alcohol</b>	<b>110</b>	<b>J</b>	120	39	ug/m3			03/18/23 00:54	10
Carbon disulfide	16	U	16	4.0	ug/m3			03/18/23 00:54	10
Methylene Chloride	17	U	17	6.3	ug/m3			03/18/23 00:54	10
Methyl tert-butyl ether	7.2	U	7.2	1.3	ug/m3			03/18/23 00:54	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			03/18/23 00:54	10
<b>n-Hexane</b>	<b>7.1</b>	<b>J</b>	18	3.9	ug/m3			03/18/23 00:54	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			03/18/23 00:54	10
Ethyl acetate	180	U	180	58	ug/m3			03/18/23 00:54	10
Methyl Ethyl Ketone	15	U	15	14	ug/m3			03/18/23 00:54	10
cis-1,2-Dichloroethene	7.9	U	7.9	0.83	ug/m3			03/18/23 00:54	10
Chloroform	9.8	U	9.8	2.0	ug/m3			03/18/23 00:54	10
Tetrahydrofuran	150	U	150	38	ug/m3			03/18/23 00:54	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			03/18/23 00:54	10
<b>Cyclohexane</b>	<b>13</b>	<b>B</b>	6.9	2.0	ug/m3			03/18/23 00:54	10
Carbon tetrachloride	13	U	13	1.4	ug/m3			03/18/23 00:54	10
<b>Benzene</b>	<b>1.8</b>	<b>J B</b>	6.4	1.4	ug/m3			03/18/23 00:54	10
1,2-Dichloroethane	8.1	U	8.1	3.8	ug/m3			03/18/23 00:54	10
<b>n-Heptane</b>	<b>81</b>	<b>B</b>	8.2	2.3	ug/m3			03/18/23 00:54	10
Trichloroethene	11	U	11	1.3	ug/m3			03/18/23 00:54	10
1,2-Dichloropropane	9.2	U	9.2	4.3	ug/m3			03/18/23 00:54	10
Bromodichloromethane	13	U	13	3.4	ug/m3			03/18/23 00:54	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.0	ug/m3			03/18/23 00:54	10
Methyl isobutyl ketone	20	U	20	5.3	ug/m3			03/18/23 00:54	10
<b>Toluene</b>	<b>14</b>	<b>B</b>	7.5	1.6	ug/m3			03/18/23 00:54	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			03/18/23 00:54	10
1,1,2-Trichloroethane	11	U	11	4.0	ug/m3			03/18/23 00:54	10
<b>Tetrachloroethene</b>	<b>290</b>	<b>B</b>	14	1.4	ug/m3			03/18/23 00:54	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	6.1	ug/m3			03/18/23 00:54	10
1,2-Dibromoethane	15	U	15	3.2	ug/m3			03/18/23 00:54	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			03/18/23 00:54	10
<b>Ethylbenzene</b>	<b>2.9</b>	<b>J B</b>	8.7	2.3	ug/m3			03/18/23 00:54	10
<b>m,p-Xylene</b>	<b>10</b>	<b>J B</b>	22	4.1	ug/m3			03/18/23 00:54	10
<b>Xylene, o-</b>	<b>4.1</b>	<b>J B</b>	8.7	2.3	ug/m3			03/18/23 00:54	10
Styrene	8.5	U	8.5	2.5	ug/m3			03/18/23 00:54	10
Bromoform	21	U	21	12	ug/m3			03/18/23 00:54	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			03/18/23 00:54	10
4-Ethyltoluene	9.8	U	9.8	2.4	ug/m3			03/18/23 00:54	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			03/18/23 00:54	10
1,2,4-Trimethylbenzene	9.8	U	9.8	3.9	ug/m3			03/18/23 00:54	10
1,3-Dichlorobenzene	12	U	12	4.4	ug/m3			03/18/23 00:54	10
1,4-Dichlorobenzene	12	U	12	5.4	ug/m3			03/18/23 00:54	10
Benzyl chloride	10	U	10	4.6	ug/m3			03/18/23 00:54	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			03/18/23 00:54	10
1,2,4-Trichlorobenzene	37	U	37	24	ug/m3			03/18/23 00:54	10
Hexachlorobutadiene	21	U	21	12	ug/m3			03/18/23 00:54	10
Naphthalene	26	U	26	16	ug/m3			03/18/23 00:54	10
Dibromochloromethane	17	U	17	5.4	ug/m3			03/18/23 00:54	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

**Client Sample ID: SSV-04**

**Lab Sample ID: 200-67180-4**

**Date Collected: 03/07/23 14:38**

**Matrix: Air**

**Date Received: 03/08/23 10:30**

**Sample Container: Summa Canister 1L**

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Unknown	11	J	ppb v/v		10.49	N/A		03/18/23 00:54	10
Unknown	10	J	ppb v/v		11.46	N/A		03/18/23 00:54	10
Hexane, 2-methyl-	69	J N	ppb v/v		11.72	591-76-4		03/18/23 00:54	10
Pentane, 2,3-dimethyl-	28	J N	ppb v/v		11.88	565-59-3		03/18/23 00:54	10
Hexane, 3-methyl-	87	J N	ppb v/v		12.04	589-34-4		03/18/23 00:54	10
Cyclotrisiloxane, hexamethyl-	22	J N	ppb v/v		16.51	541-05-9		03/18/23 00:54	10

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-189444/5**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Propylene	5.0	U	5.0	1.2	ppb v/v			03/17/23 11:26	1
Dichlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			03/17/23 11:26	1
1,2-Dichlorotetrafluoroethane	0.0769	J	0.20	0.048	ppb v/v			03/17/23 11:26	1
Chloromethane	0.50	U	0.50	0.15	ppb v/v			03/17/23 11:26	1
Vinyl chloride	0.0594	J	0.20	0.021	ppb v/v			03/17/23 11:26	1
1,3-Butadiene	0.0664	J	0.20	0.039	ppb v/v			03/17/23 11:26	1
Bromomethane	0.20	U	0.20	0.071	ppb v/v			03/17/23 11:26	1
Chloroethane	0.50	U	0.50	0.18	ppb v/v			03/17/23 11:26	1
Trichlorofluoromethane	0.0745	J	0.20	0.050	ppb v/v			03/17/23 11:26	1
Ethanol	5.0	U	5.0	2.6	ppb v/v			03/17/23 11:26	1
Freon TF	0.0739	J	0.20	0.053	ppb v/v			03/17/23 11:26	1
1,1-Dichloroethene	0.0682	J	0.20	0.026	ppb v/v			03/17/23 11:26	1
Acetone	5.0	U	5.0	1.6	ppb v/v			03/17/23 11:26	1
Isopropyl alcohol	5.0	U	5.0	1.6	ppb v/v			03/17/23 11:26	1
Carbon disulfide	0.50	U	0.50	0.13	ppb v/v			03/17/23 11:26	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			03/17/23 11:26	1
Methyl tert-butyl ether	0.0750	J	0.20	0.036	ppb v/v			03/17/23 11:26	1
trans-1,2-Dichloroethene	0.0612	J	0.20	0.023	ppb v/v			03/17/23 11:26	1
n-Hexane	0.50	U	0.50	0.11	ppb v/v			03/17/23 11:26	1
1,1-Dichloroethane	0.0604	J	0.20	0.025	ppb v/v			03/17/23 11:26	1
Ethyl acetate	5.0	U	5.0	1.6	ppb v/v			03/17/23 11:26	1
Methyl Ethyl Ketone	0.50	U	0.50	0.49	ppb v/v			03/17/23 11:26	1
cis-1,2-Dichloroethene	0.0635	J	0.20	0.021	ppb v/v			03/17/23 11:26	1
Chloroform	0.0720	J	0.20	0.041	ppb v/v			03/17/23 11:26	1
Tetrahydrofuran	5.0	U	5.0	1.3	ppb v/v			03/17/23 11:26	1
1,1,1-Trichloroethane	0.0737	J	0.20	0.044	ppb v/v			03/17/23 11:26	1
Cyclohexane	0.0677	J	0.20	0.058	ppb v/v			03/17/23 11:26	1
Carbon tetrachloride	0.0610	J	0.20	0.022	ppb v/v			03/17/23 11:26	1
Benzene	0.0713	J	0.20	0.044	ppb v/v			03/17/23 11:26	1
1,2-Dichloroethane	0.20	U	0.20	0.093	ppb v/v			03/17/23 11:26	1
n-Heptane	0.0648	J	0.20	0.055	ppb v/v			03/17/23 11:26	1
Trichloroethene	0.0732	J	0.20	0.025	ppb v/v			03/17/23 11:26	1
1,2-Dichloropropane	0.20	U	0.20	0.094	ppb v/v			03/17/23 11:26	1
Bromodichloromethane	0.0702	J	0.20	0.050	ppb v/v			03/17/23 11:26	1
cis-1,3-Dichloropropene	0.0628	J	0.20	0.045	ppb v/v			03/17/23 11:26	1
Methyl isobutyl ketone	0.50	U	0.50	0.13	ppb v/v			03/17/23 11:26	1
Toluene	0.0846	J	0.20	0.042	ppb v/v			03/17/23 11:26	1
trans-1,3-Dichloropropene	0.0550	J	0.20	0.054	ppb v/v			03/17/23 11:26	1
1,1,2-Trichloroethane	0.0816	J	0.20	0.074	ppb v/v			03/17/23 11:26	1
Tetrachloroethene	0.0944	J	0.20	0.021	ppb v/v			03/17/23 11:26	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.15	ppb v/v			03/17/23 11:26	1
1,2-Dibromoethane	0.0831	J	0.20	0.042	ppb v/v			03/17/23 11:26	1
Chlorobenzene	0.102	J	0.20	0.044	ppb v/v			03/17/23 11:26	1
Ethylbenzene	0.0948	J	0.20	0.052	ppb v/v			03/17/23 11:26	1
m,p-Xylene	0.204	J	0.50	0.095	ppb v/v			03/17/23 11:26	1
Xylene, o-	0.0926	J	0.20	0.052	ppb v/v			03/17/23 11:26	1
Styrene	0.0714	J	0.20	0.059	ppb v/v			03/17/23 11:26	1
Bromoform	0.20	U	0.20	0.12	ppb v/v			03/17/23 11:26	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-189444/5**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	0.0974	J	0.20	0.043	ppb v/v			03/17/23 11:26	1
4-Ethyltoluene	0.0938	J	0.20	0.049	ppb v/v			03/17/23 11:26	1
1,3,5-Trimethylbenzene	0.106	J	0.20	0.047	ppb v/v			03/17/23 11:26	1
1,2,4-Trimethylbenzene	0.0988	J	0.20	0.080	ppb v/v			03/17/23 11:26	1
1,3-Dichlorobenzene	0.124	J	0.20	0.074	ppb v/v			03/17/23 11:26	1
1,4-Dichlorobenzene	0.120	J	0.20	0.089	ppb v/v			03/17/23 11:26	1
Benzyl chloride	0.20	U	0.20	0.088	ppb v/v			03/17/23 11:26	1
1,2-Dichlorobenzene	0.129	J	0.20	0.066	ppb v/v			03/17/23 11:26	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.33	ppb v/v			03/17/23 11:26	1
Hexachlorobutadiene	0.137	J	0.20	0.11	ppb v/v			03/17/23 11:26	1
Naphthalene	0.50	U	0.50	0.30	ppb v/v			03/17/23 11:26	1
Dibromochloromethane	0.0809	J	0.20	0.063	ppb v/v			03/17/23 11:26	1
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Propylene	8.6	U	8.6	2.1	ug/m3			03/17/23 11:26	1
Dichlorodifluoromethane	2.5	U	2.5	0.54	ug/m3			03/17/23 11:26	1
1,2-Dichlorotetrafluoroethane	0.538	J	1.4	0.34	ug/m3			03/17/23 11:26	1
Chloromethane	1.0	U	1.0	0.31	ug/m3			03/17/23 11:26	1
Vinyl chloride	0.152	J	0.51	0.054	ug/m3			03/17/23 11:26	1
1,3-Butadiene	0.147	J	0.44	0.086	ug/m3			03/17/23 11:26	1
Bromomethane	0.78	U	0.78	0.28	ug/m3			03/17/23 11:26	1
Chloroethane	1.3	U	1.3	0.47	ug/m3			03/17/23 11:26	1
Trichlorofluoromethane	0.418	J	1.1	0.28	ug/m3			03/17/23 11:26	1
Ethanol	9.4	U	9.4	4.9	ug/m3			03/17/23 11:26	1
Freon TF	0.567	J	1.5	0.41	ug/m3			03/17/23 11:26	1
1,1-Dichloroethene	0.270	J	0.79	0.10	ug/m3			03/17/23 11:26	1
Acetone	12	U	12	3.8	ug/m3			03/17/23 11:26	1
Isopropyl alcohol	12	U	12	3.9	ug/m3			03/17/23 11:26	1
Carbon disulfide	1.6	U	1.6	0.40	ug/m3			03/17/23 11:26	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			03/17/23 11:26	1
Methyl tert-butyl ether	0.270	J	0.72	0.13	ug/m3			03/17/23 11:26	1
trans-1,2-Dichloroethene	0.242	J	0.79	0.091	ug/m3			03/17/23 11:26	1
n-Hexane	1.8	U	1.8	0.39	ug/m3			03/17/23 11:26	1
1,1-Dichloroethane	0.245	J	0.81	0.10	ug/m3			03/17/23 11:26	1
Ethyl acetate	18	U	18	5.8	ug/m3			03/17/23 11:26	1
Methyl Ethyl Ketone	1.5	U	1.5	1.4	ug/m3			03/17/23 11:26	1
cis-1,2-Dichloroethene	0.252	J	0.79	0.083	ug/m3			03/17/23 11:26	1
Chloroform	0.352	J	0.98	0.20	ug/m3			03/17/23 11:26	1
Tetrahydrofuran	15	U	15	3.8	ug/m3			03/17/23 11:26	1
1,1,1-Trichloroethane	0.402	J	1.1	0.24	ug/m3			03/17/23 11:26	1
Cyclohexane	0.233	J	0.69	0.20	ug/m3			03/17/23 11:26	1
Carbon tetrachloride	0.384	J	1.3	0.14	ug/m3			03/17/23 11:26	1
Benzene	0.228	J	0.64	0.14	ug/m3			03/17/23 11:26	1
1,2-Dichloroethane	0.81	U	0.81	0.38	ug/m3			03/17/23 11:26	1
n-Heptane	0.266	J	0.82	0.23	ug/m3			03/17/23 11:26	1
Trichloroethene	0.394	J	1.1	0.13	ug/m3			03/17/23 11:26	1
1,2-Dichloropropane	0.92	U	0.92	0.43	ug/m3			03/17/23 11:26	1
Bromodichloromethane	0.470	J	1.3	0.34	ug/m3			03/17/23 11:26	1
cis-1,3-Dichloropropene	0.285	J	0.91	0.20	ug/m3			03/17/23 11:26	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-189444/5**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl isobutyl ketone	2.0	U	2.0	0.53	ug/m3			03/17/23 11:26	1
Toluene	0.319	J	0.75	0.16	ug/m3			03/17/23 11:26	1
trans-1,3-Dichloropropene	0.250	J	0.91	0.25	ug/m3			03/17/23 11:26	1
1,1,2-Trichloroethane	0.445	J	1.1	0.40	ug/m3			03/17/23 11:26	1
Tetrachloroethene	0.640	J	1.4	0.14	ug/m3			03/17/23 11:26	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.61	ug/m3			03/17/23 11:26	1
1,2-Dibromoethane	0.639	J	1.5	0.32	ug/m3			03/17/23 11:26	1
Chlorobenzene	0.468	J	0.92	0.20	ug/m3			03/17/23 11:26	1
Ethylbenzene	0.412	J	0.87	0.23	ug/m3			03/17/23 11:26	1
m,p-Xylene	0.885	J	2.2	0.41	ug/m3			03/17/23 11:26	1
Xylene, o-	0.402	J	0.87	0.23	ug/m3			03/17/23 11:26	1
Styrene	0.304	J	0.85	0.25	ug/m3			03/17/23 11:26	1
Bromoform	2.1	U	2.1	1.2	ug/m3			03/17/23 11:26	1
1,1,2,2-Tetrachloroethane	0.669	J	1.4	0.30	ug/m3			03/17/23 11:26	1
4-Ethyltoluene	0.461	J	0.98	0.24	ug/m3			03/17/23 11:26	1
1,3,5-Trimethylbenzene	0.523	J	0.98	0.23	ug/m3			03/17/23 11:26	1
1,2,4-Trimethylbenzene	0.486	J	0.98	0.39	ug/m3			03/17/23 11:26	1
1,3-Dichlorobenzene	0.743	J	1.2	0.44	ug/m3			03/17/23 11:26	1
1,4-Dichlorobenzene	0.722	J	1.2	0.54	ug/m3			03/17/23 11:26	1
Benzyl chloride	1.0	U	1.0	0.46	ug/m3			03/17/23 11:26	1
1,2-Dichlorobenzene	0.773	J	1.2	0.40	ug/m3			03/17/23 11:26	1
1,2,4-Trichlorobenzene	3.7	U	3.7	2.4	ug/m3			03/17/23 11:26	1
Hexachlorobutadiene	1.46	J	2.1	1.2	ug/m3			03/17/23 11:26	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			03/17/23 11:26	1
Dibromochloromethane	0.690	J	1.7	0.54	ug/m3			03/17/23 11:26	1

Tentatively Identified Compound	MB	MB	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
	Est. Result	Qualifier							
Dibromomethane	0.0850	J	ppb v/v		14.07	74-95-3		03/17/23 11:26	1
n-Nonane	0.0811	J	ppb v/v		19.09	111-84-2		03/17/23 11:26	1
Isopropylbenzene	0.0971	J	ppb v/v		20.51	98-82-8		03/17/23 11:26	1
N-Propylbenzene	0.0966	J	ppb v/v		21.26	103-65-1		03/17/23 11:26	1
2-Chlorotoluene	0.115	J	ppb v/v		21.41	95-49-8		03/17/23 11:26	1
tert-Butylbenzene	0.106	J	ppb v/v		22.05	98-06-6		03/17/23 11:26	1
sec-Butylbenzene	0.0977	J	ppb v/v		22.38	135-98-8		03/17/23 11:26	1
4-Isopropyltoluene	0.0887	J	ppb v/v		22.60	99-87-6		03/17/23 11:26	1

**Lab Sample ID: LCS 200-189444/4**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorodifluoromethane	10.0	10.9		ppb v/v		109	61 - 142
1,2-Dichlorotetrafluoroethane	10.0	9.95		ppb v/v		100	71 - 141
Chloromethane	10.0	9.81		ppb v/v		98	56 - 141
Vinyl chloride	10.0	9.66		ppb v/v		97	61 - 135
1,3-Butadiene	10.0	9.52		ppb v/v		95	58 - 139
Bromomethane	10.0	10.1		ppb v/v		101	72 - 124

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-189444/4**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	10.0	9.88		ppb v/v		99	68 - 130
Trichlorofluoromethane	10.0	9.60		ppb v/v		96	70 - 129
Ethanol	14.7	12.1		ppb v/v		83	50 - 150
Freon TF	10.0	9.38		ppb v/v		94	70 - 121
1,1-Dichloroethene	10.0	9.18		ppb v/v		92	68 - 120
Acetone	10.0	9.43		ppb v/v		94	54 - 154
Isopropyl alcohol	10.0	10.5		ppb v/v		105	53 - 142
Carbon disulfide	10.0	9.31		ppb v/v		93	71 - 138
Methylene Chloride	10.0	8.10		ppb v/v		81	59 - 137
Methyl tert-butyl ether	10.0	8.91		ppb v/v		89	70 - 127
trans-1,2-Dichloroethene	10.0	9.03		ppb v/v		90	69 - 137
n-Hexane	10.0	8.52		ppb v/v		85	63 - 138
1,1-Dichloroethane	10.0	8.34		ppb v/v		83	66 - 130
Ethyl acetate	10.0	9.60		ppb v/v		96	70 - 131
Methyl Ethyl Ketone	10.0	8.81		ppb v/v		88	72 - 124
cis-1,2-Dichloroethene	10.0	8.97		ppb v/v		90	72 - 121
Chloroform	10.0	8.90		ppb v/v		89	73 - 124
Tetrahydrofuran	10.0	8.55		ppb v/v		86	60 - 149
1,1,1-Trichloroethane	10.0	9.23		ppb v/v		92	72 - 127
Cyclohexane	10.0	9.08		ppb v/v		91	76 - 124
Carbon tetrachloride	10.0	9.41		ppb v/v		94	71 - 133
Benzene	10.0	8.83		ppb v/v		88	73 - 119
1,2-Dichloroethane	10.0	8.77		ppb v/v		88	68 - 135
n-Heptane	10.0	7.61		ppb v/v		76	60 - 142
Trichloroethene	10.0	8.96		ppb v/v		90	73 - 122
1,2-Dichloropropane	10.0	8.22		ppb v/v		82	69 - 128
Bromodichloromethane	10.0	9.11		ppb v/v		91	75 - 127
cis-1,3-Dichloropropene	10.0	9.16		ppb v/v		92	74 - 125
Methyl isobutyl ketone	10.0	8.05		ppb v/v		80	58 - 144
Toluene	10.0	9.18		ppb v/v		92	75 - 122
trans-1,3-Dichloropropene	10.0	9.30		ppb v/v		93	74 - 128
1,1,2-Trichloroethane	10.0	9.41		ppb v/v		94	75 - 126
Tetrachloroethene	10.0	9.79		ppb v/v		98	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10.0	9.93		ppb v/v		99	57 - 143
1,2-Dibromoethane	10.0	10.1		ppb v/v		101	78 - 122
Chlorobenzene	10.0	9.49		ppb v/v		95	76 - 119
Ethylbenzene	10.0	9.10		ppb v/v		91	74 - 122
m,p-Xylene	20.0	19.0		ppb v/v		95	76 - 121
Xylene, o-	10.0	10.4		ppb v/v		104	73 - 123
Styrene	10.0	10.9		ppb v/v		109	74 - 125
Bromoform	10.0	12.2		ppb v/v		122	53 - 149
1,1,2,2-Tetrachloroethane	10.0	9.19		ppb v/v		92	74 - 126
4-Ethyltoluene	10.0	9.98		ppb v/v		100	75 - 129
1,3,5-Trimethylbenzene	10.0	9.90		ppb v/v		99	72 - 126
1,2,4-Trimethylbenzene	10.0	10.0		ppb v/v		100	71 - 129
1,3-Dichlorobenzene	10.0	10.6		ppb v/v		106	69 - 131
1,4-Dichlorobenzene	10.0	10.8		ppb v/v		108	67 - 132
Benzyl chloride	10.0	10.1		ppb v/v		101	60 - 136

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-189444/4**

**Client Sample ID: Lab Control Sample**

**Matrix: Air**

**Prep Type: Total/NA**

**Analysis Batch: 189444**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	10.0	10.6		ppb v/v		106	68 - 129
1,2,4-Trichlorobenzene	10.0	12.3		ppb v/v		123	50 - 150
Hexachlorobutadiene	10.0	11.3		ppb v/v		113	58 - 130
Naphthalene	10.0	12.5		ppb v/v		125	50 - 150
Dibromochloromethane	10.0	10.3		ppb v/v		103	73 - 125
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Propylene	17	17.9		ug/m3		104	50 - 158
Dichlorodifluoromethane	49	53.7		ug/m3		109	61 - 142
1,2-Dichlorotetrafluoroethane	70	69.6		ug/m3		100	71 - 141
Chloromethane	21	20.3		ug/m3		98	56 - 141
Vinyl chloride	26	24.7		ug/m3		97	61 - 135
1,3-Butadiene	22	21.1		ug/m3		95	58 - 139
Bromomethane	39	39.1		ug/m3		101	72 - 124
Chloroethane	26	26.1		ug/m3		99	68 - 130
Trichlorofluoromethane	56	53.9		ug/m3		96	70 - 129
Ethanol	28	22.8		ug/m3		83	50 - 150
Freon TF	77	71.9		ug/m3		94	70 - 121
1,1-Dichloroethene	40	36.4		ug/m3		92	68 - 120
Acetone	24	22.4		ug/m3		94	54 - 154
Isopropyl alcohol	25	25.7		ug/m3		105	53 - 142
Carbon disulfide	31	29.0		ug/m3		93	71 - 138
Methylene Chloride	35	28.1		ug/m3		81	59 - 137
Methyl tert-butyl ether	36	32.1		ug/m3		89	70 - 127
trans-1,2-Dichloroethene	40	35.8		ug/m3		90	69 - 137
n-Hexane	35	30.0		ug/m3		85	63 - 138
1,1-Dichloroethane	40	33.8		ug/m3		83	66 - 130
Ethyl acetate	36	34.6		ug/m3		96	70 - 131
Methyl Ethyl Ketone	29	26.0		ug/m3		88	72 - 124
cis-1,2-Dichloroethene	40	35.6		ug/m3		90	72 - 121
Chloroform	49	43.5		ug/m3		89	73 - 124
Tetrahydrofuran	29	25.2		ug/m3		86	60 - 149
1,1,1-Trichloroethane	55	50.4		ug/m3		92	72 - 127
Cyclohexane	34	31.3		ug/m3		91	76 - 124
Carbon tetrachloride	63	59.2		ug/m3		94	71 - 133
Benzene	32	28.2		ug/m3		88	73 - 119
1,2-Dichloroethane	40	35.5		ug/m3		88	68 - 135
n-Heptane	41	31.2		ug/m3		76	60 - 142
Trichloroethene	54	48.2		ug/m3		90	73 - 122
1,2-Dichloropropane	46	38.0		ug/m3		82	69 - 128
Bromodichloromethane	67	61.0		ug/m3		91	75 - 127
cis-1,3-Dichloropropene	45	41.6		ug/m3		92	74 - 125
Methyl isobutyl ketone	41	33.0		ug/m3		80	58 - 144
Toluene	38	34.6		ug/m3		92	75 - 122
trans-1,3-Dichloropropene	45	42.2		ug/m3		93	74 - 128
1,1,2-Trichloroethane	55	51.4		ug/m3		94	75 - 126
Tetrachloroethene	68	66.4		ug/m3		98	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41	40.7		ug/m3		99	57 - 143

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-189444/4**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromoethane	77	77.3		ug/m3		101	78 - 122
Chlorobenzene	46	43.7		ug/m3		95	76 - 119
Ethylbenzene	43	39.5		ug/m3		91	74 - 122
m,p-Xylene	87	82.4		ug/m3		95	76 - 121
Xylene, o-	43	45.1		ug/m3		104	73 - 123
Styrene	43	46.5		ug/m3		109	74 - 125
Bromoform	100	126		ug/m3		122	53 - 149
1,1,2,2-Tetrachloroethane	69	63.1		ug/m3		92	74 - 126
4-Ethyltoluene	49	49.1		ug/m3		100	75 - 129
1,3,5-Trimethylbenzene	49	48.7		ug/m3		99	72 - 126
1,2,4-Trimethylbenzene	49	49.2		ug/m3		100	71 - 129
1,3-Dichlorobenzene	60	63.9		ug/m3		106	69 - 131
1,4-Dichlorobenzene	60	65.1		ug/m3		108	67 - 132
Benzyl chloride	52	52.2		ug/m3		101	60 - 136
1,2-Dichlorobenzene	60	64.0		ug/m3		106	68 - 129
1,2,4-Trichlorobenzene	74	91.2		ug/m3		123	50 - 150
Hexachlorobutadiene	110	121		ug/m3		113	58 - 130
Naphthalene	52	65.7		ug/m3		125	50 - 150
Dibromochloromethane	85	87.8		ug/m3		103	73 - 125

**Lab Sample ID: 200-67180-1 DU**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: SSV-01**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Propylene	50	U	50	U	ppb v/v		NC	25
Dichlorodifluoromethane	5.0	U	5.0	U	ppb v/v		NC	25
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	U	ppb v/v		NC	25
Chloromethane	5.0	U	5.0	U	ppb v/v		NC	25
Vinyl chloride	2.0	U	2.0	U	ppb v/v		NC	25
1,3-Butadiene	2.0	U	2.0	U	ppb v/v		NC	25
Bromomethane	2.0	U	2.0	U	ppb v/v		NC	25
Chloroethane	5.0	U	5.0	U	ppb v/v		NC	25
Trichlorofluoromethane	1.4	J B	0.502	J F5	ppb v/v		96	25
Ethanol	45	J	47.3	J	ppb v/v		5	25
Freon TF	2.0	U	2.0	U	ppb v/v		NC	25
1,1-Dichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
Acetone	59		62.5		ppb v/v		5	25
Isopropyl alcohol	28	J	29.1	J	ppb v/v		4	25
Carbon disulfide	5.0	U	5.0	U	ppb v/v		NC	25
Methylene Chloride	5.0	U	5.0	U	ppb v/v		NC	25
Methyl tert-butyl ether	2.0	U	2.0	U	ppb v/v		NC	25
trans-1,2-Dichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
n-Hexane	2.3	J	2.38	J	ppb v/v		4	25
1,1-Dichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Ethyl acetate	50	U	50	U	ppb v/v		NC	25
Methyl Ethyl Ketone	5.0	U	5.0	U	ppb v/v		NC	25
cis-1,2-Dichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
Chloroform	2.0	U	2.0	U	ppb v/v		NC	25

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: 200-67180-1 DU**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: SSV-01**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Tetrahydrofuran	50	U	50	U	ppb v/v		NC	25
1,1,1-Trichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Cyclohexane	4.4	B	4.87		ppb v/v		9	25
Carbon tetrachloride	2.0	U	2.0	U	ppb v/v		NC	25
Benzene	0.87	J B	0.905	J	ppb v/v		4	25
1,2-Dichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
n-Heptane	22	B	24.2		ppb v/v		8	25
Trichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
1,2-Dichloropropane	2.0	U	2.0	U	ppb v/v		NC	25
Bromodichloromethane	2.0	U	2.0	U	ppb v/v		NC	25
cis-1,3-Dichloropropene	2.0	U	2.0	U	ppb v/v		NC	25
Methyl isobutyl ketone	5.0	U	5.0	U	ppb v/v		NC	25
Toluene	9.9	B	10.7		ppb v/v		8	25
trans-1,3-Dichloropropene	2.0	U	2.0	U	ppb v/v		NC	25
1,1,2-Trichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Tetrachloroethene	6.3	B	6.82		ppb v/v		7	25
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	U	ppb v/v		NC	25
1,2-Dibromoethane	2.0	U	2.0	U	ppb v/v		NC	25
Chlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
Ethylbenzene	2.3	B	2.50		ppb v/v		6	25
m,p-Xylene	3.5	J B	3.92	J	ppb v/v		13	25
Xylene, o-	1.6	J B	1.79	J	ppb v/v		10	25
Styrene	2.0	U	2.0	U	ppb v/v		NC	25
Bromoform	2.0	U	2.0	U	ppb v/v		NC	25
1,1,2,2-Tetrachloroethane	2.0	U	2.0	U	ppb v/v		NC	25
4-Ethyltoluene	2.0	U	2.0	U	ppb v/v		NC	25
1,3,5-Trimethylbenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,2,4-Trimethylbenzene	0.92	J B	1.04	J	ppb v/v		13	25
1,3-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,4-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
Benzyl chloride	2.0	U	2.0	U	ppb v/v		NC	25
1,2-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,2,4-Trichlorobenzene	5.0	U	5.0	U	ppb v/v		NC	25
Hexachlorobutadiene	2.0	U	2.0	U	ppb v/v		NC	25
Naphthalene	5.5		6.97		ppb v/v		24	25
Dibromochloromethane	2.0	U	2.0	U	ppb v/v		NC	25
Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Propylene	86	U	86	U	ug/m3		NC	25
Dichlorodifluoromethane	25	U	25	U	ug/m3		NC	25
1,2-Dichlorotetrafluoroethane	14	U	14	U	ug/m3		NC	25
Chloromethane	10	U	10	U	ug/m3		NC	25
Vinyl chloride	5.1	U	5.1	U	ug/m3		NC	25
1,3-Butadiene	4.4	U	4.4	U	ug/m3		NC	25
Bromomethane	7.8	U	7.8	U	ug/m3		NC	25
Chloroethane	13	U	13	U	ug/m3		NC	25
Trichlorofluoromethane	8.0	J B	2.82	J F5	ug/m3		96	25
Ethanol	84	J	89.1	J	ug/m3		5	25

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site 6

Job ID: 200-67180-1  
 SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: 200-67180-1 DU**  
**Matrix: Air**  
**Analysis Batch: 189444**

**Client Sample ID: SSV-01**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Freon TF	15	U	15	U	ug/m3		NC	25
1,1-Dichloroethene	7.9	U	7.9	U	ug/m3		NC	25
Acetone	140		148		ug/m3		5	25
Isopropyl alcohol	68	J	71.4	J	ug/m3		4	25
Carbon disulfide	16	U	16	U	ug/m3		NC	25
Methylene Chloride	17	U	17	U	ug/m3		NC	25
Methyl tert-butyl ether	7.2	U	7.2	U	ug/m3		NC	25
trans-1,2-Dichloroethene	7.9	U	7.9	U	ug/m3		NC	25
n-Hexane	8.0	J	8.40	J	ug/m3		4	25
1,1-Dichloroethane	8.1	U	8.1	U	ug/m3		NC	25
Ethyl acetate	180	U	180	U	ug/m3		NC	25
Methyl Ethyl Ketone	15	U	15	U	ug/m3		NC	25
cis-1,2-Dichloroethene	7.9	U	7.9	U	ug/m3		NC	25
Chloroform	9.8	U	9.8	U	ug/m3		NC	25
Tetrahydrofuran	150	U	150	U	ug/m3		NC	25
1,1,1-Trichloroethane	11	U	11	U	ug/m3		NC	25
Cyclohexane	15	B	16.8		ug/m3		9	25
Carbon tetrachloride	13	U	13	U	ug/m3		NC	25
Benzene	2.8	J B	2.89	J	ug/m3		4	25
1,2-Dichloroethane	8.1	U	8.1	U	ug/m3		NC	25
n-Heptane	91	B	99.1		ug/m3		8	25
Trichloroethene	11	U	11	U	ug/m3		NC	25
1,2-Dichloropropane	9.2	U	9.2	U	ug/m3		NC	25
Bromodichloromethane	13	U	13	U	ug/m3		NC	25
cis-1,3-Dichloropropene	9.1	U	9.1	U	ug/m3		NC	25
Methyl isobutyl ketone	20	U	20	U	ug/m3		NC	25
Toluene	37	B	40.3		ug/m3		8	25
trans-1,3-Dichloropropene	9.1	U	9.1	U	ug/m3		NC	25
1,1,2-Trichloroethane	11	U	11	U	ug/m3		NC	25
Tetrachloroethene	43	B	46.2		ug/m3		7	25
Methyl Butyl Ketone (2-Hexanone)	20	U	20	U	ug/m3		NC	25
1,2-Dibromoethane	15	U	15	U	ug/m3		NC	25
Chlorobenzene	9.2	U	9.2	U	ug/m3		NC	25
Ethylbenzene	10	B	10.8		ug/m3		6	25
m,p-Xylene	15	J B	17.0	J	ug/m3		13	25
Xylene, o-	7.0	J B	7.77	J	ug/m3		10	25
Styrene	8.5	U	8.5	U	ug/m3		NC	25
Bromoform	21	U	21	U	ug/m3		NC	25
1,1,2,2-Tetrachloroethane	14	U	14	U	ug/m3		NC	25
4-Ethyltoluene	9.8	U	9.8	U	ug/m3		NC	25
1,3,5-Trimethylbenzene	9.8	U	9.8	U	ug/m3		NC	25
1,2,4-Trimethylbenzene	4.5	J B	5.12	J	ug/m3		13	25
1,3-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
1,4-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
Benzyl chloride	10	U	10	U	ug/m3		NC	25
1,2-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
1,2,4-Trichlorobenzene	37	U	37	U	ug/m3		NC	25
Hexachlorobutadiene	21	U	21	U	ug/m3		NC	25

Eurofins Burlington



# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: 200-67180-1 DU

Matrix: Air

Analysis Batch: 189444

Client Sample ID: SSV-01

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Naphthalene	29		36.6		ug/m3		24	25
Dibromochloromethane	17	U	17	U	ug/m3		NC	25

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# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

## Air - GC/MS VOA

### Analysis Batch: 189444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-67180-1	SSV-01	Total/NA	Air	TO-15	
200-67180-2	SSV-02	Total/NA	Air	TO-15	
200-67180-3	SSV-03	Total/NA	Air	TO-15	
200-67180-4	SSV-04	Total/NA	Air	TO-15	
MB 200-189444/5	Method Blank	Total/NA	Air	TO-15	
LCS 200-189444/4	Lab Control Sample	Total/NA	Air	TO-15	
200-67180-1 DU	SSV-01	Total/NA	Air	TO-15	

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# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

**Client Sample ID: SSV-01**  
**Date Collected: 03/07/23 13:39**  
**Date Received: 03/08/23 10:30**

**Lab Sample ID: 200-67180-1**  
**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	189444	A1B	EET BUR	03/17/23 21:26

**Client Sample ID: SSV-02**  
**Date Collected: 03/07/23 14:01**  
**Date Received: 03/08/23 10:30**

**Lab Sample ID: 200-67180-2**  
**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	189444	A1B	EET BUR	03/17/23 23:10

**Client Sample ID: SSV-03**  
**Date Collected: 03/07/23 14:26**  
**Date Received: 03/08/23 10:30**

**Lab Sample ID: 200-67180-3**  
**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	189444	A1B	EET BUR	03/18/23 00:02

**Client Sample ID: SSV-04**  
**Date Collected: 03/07/23 14:38**  
**Date Received: 03/08/23 10:30**

**Lab Sample ID: 200-67180-4**  
**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	189444	A1B	EET BUR	03/18/23 00:54

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

## Laboratory: Eurofins Burlington

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Minnesota	NELAP	050-999-436	12-31-23

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# Method Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



# Sample Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site 6

Job ID: 200-67180-1  
SDG: 200-67180

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-67180-1	SSV-01	Air	03/07/23 13:39	03/08/23 10:30	Air Canister (1-Liter) #4843
200-67180-2	SSV-02	Air	03/07/23 14:01	03/08/23 10:30	Air Canister (1-Liter) #34000964
200-67180-3	SSV-03	Air	03/07/23 14:26	03/08/23 10:30	Air Canister (1-Liter) #34001136
200-67180-4	SSV-04	Air	03/07/23 14:38	03/08/23 10:30	Air Canister (1-Liter) #6461

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Canister Samples Chain of Custody Record

This record is to be used to document the chain of custody for the collection and shipment of these samples.

Eurofins Test America, Burlington  
 530 Community Drive  
 Suite 11

South Burlington, VT 05403-6809  
 phone 802.660.1990 fax 802.660.1919

Client Contact Information		Client Project Manager: <u>Sam Kerforce</u>		Samples Collected By: <u>Eliott Allen</u>		COC No. of _____		COCs	
Company Name: <u>SEH</u>		Phone: <u>617.839.2430</u>		EPA 25C		EPA 3C		EPA 15/16	
Address: <u>3535 Vantage Center Dr</u>		Email: <u>kerforce@sehinc.com</u>		ASTM D-1946		TO-15 SIM		FPA 15/16	
City/State/Zip: <u>St Paul, MN</u>		Site Contact:		TO-14/15 (Standard / Low Level)		TO-15 SIM		Other (Please specify in notes section)	
Phone: <u>651.224.0533</u>		Tel/Fax:		Analysis Turnaround Time		EPA 25C		Soil Gas	
Project Name: <u>ATCT site 6</u>		Standard (Specific): <u>5 Aug</u>		Rush (Specify):		EPA 3C		Soil Vapor Extraction (SVE)	
Site/Location: <u>DWI 171565</u>		Sample End Date		Time Start		EPA 25C		Landfill Gas	
P O #		Sample Start Date		Time Stop		EPA 15/16		Other (Please specify in notes section)	
Sample Identification		Canister Vacuum in Field, "Hg (Start)		Canister Vacuum in Field, "Hg (Stop)		Flow Controller ID		Canister ID	
<u>SSV-01</u>		<u>3/7</u>		<u>1332</u>		<u>1339</u>		<u>1337</u>	
<u>SSV-02</u>		<u>↓</u>		<u>1356</u>		<u>1401</u>		<u>1401</u>	
<u>SSV-03</u>		<u>↓</u>		<u>1420</u>		<u>1426</u>		<u>1426</u>	
<u>SSV-04</u>		<u>↓</u>		<u>1432</u>		<u>1438</u>		<u>1432</u>	
Sample Specific Notes:		Temperature (Fahrenheit)		Pressure (Inches of Hg)		Date / Time		Date / Time	
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ORIGIN ID:GPZA (111) 111-1111  
JENNIFER FORCE  
SEH  
9535 VADNAIS CENTER DRIVE  
ST. PAUL, MN 55110  
UNITED STATES US

SHIP DATE: 24FEB23  
ACTWGT: 20.00 LB MAN  
CAD: 399920/CAFE3409

**SAMPLE MANAGEMENT  
TEST AMERICA BURLINGTON  
30 COMMUNITY DRIVE**

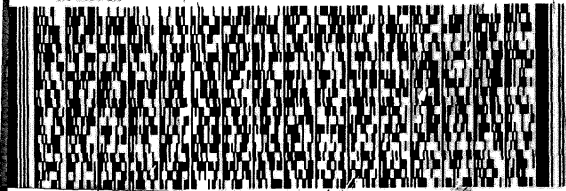
**SOUTH BURLINGTON VT 05403**

(802) 923-1068

REF:

DEPT:

RMA: 111 111 111



**FedEx  
Express**



AN108121021102

FedEx

PK# 4114 9913 9512  
221

**WED - 08 MAR 10:30A  
PRIORITY OVERNIGHT**

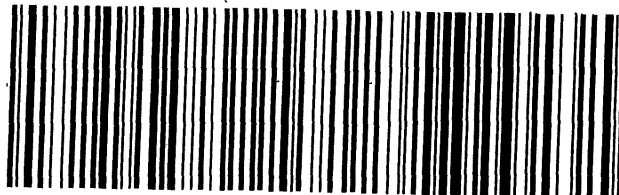
**XE BTVA**

05403

VT-US

BTVA

EXP 08/23



RE

56261/2018/103

1902484

TestAmerica

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## Login Sample Receipt Checklist

Client: Short Elliott Hendrickson, Inc. dba SEH

Job Number: 200-67180-1

SDG Number: 200-67180

**Login Number: 67180**

**List Number: 1**

**Creator: Khudaier, Zahraa**

**List Source: Eurofins Burlington**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1902484
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	







FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66552-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34001973 Lab Sample ID: 200-66552-4  
 Matrix: Air Lab File ID: 54139-006.d  
 Analysis Method: TO-15 Date Collected: 01/21/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 01/27/2023 12:12  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 187889 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.20	U	0.20	0.052
100-42-5	Styrene	0.20	U	0.20	0.059
10061-01-5	1,3-Dichloropropene, cis-	0.20	U	0.20	0.045
10061-02-6	1,3-Dichloropropene, trans-	0.20	U	0.20	0.054
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.089
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.042
106-99-0	1,3-Butadiene	0.20	U	0.20	0.039
107-05-1	Allyl chloride	0.50	U	0.50	0.12
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.093
108-10-1	Methyl isobutyl ketone (MIBK)	0.50	U	0.50	0.13
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.047
108-88-3	Toluene	0.20	U	0.20	0.042
108-90-7	Chlorobenzene	0.20	U	0.20	0.044
109-99-9	Tetrahydrofuran	5.0	U	5.0	1.3
110-54-3	Hexane	0.50	U	0.50	0.11
110-82-7	Cyclohexane	0.20	U	0.20	0.058
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.33
123-91-1	1,4-Dioxane	0.20	U	0.20	0.078
124-48-1	Dibromochloromethane	0.20	U	0.20	0.063
127-18-4	Tetrachloroethene	0.20	U	0.20	0.021
142-82-5	n-Heptane	0.20	U	0.20	0.055
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.021
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.036
179601-23-1	m,p-Xylene	0.50	U	0.50	0.095
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.038
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.074
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.022
593-60-2	Vinyl bromide	0.20	U	0.20	0.050
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.049
64-17-5	Ethanol	5.0	U	5.0	2.6
67-63-0	Isopropanol	5.0	U	5.0	1.6
67-64-1	Acetone	5.0	U	5.0	1.6
67-66-3	Chloroform	0.20	U	0.20	0.041

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66552-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34001973 Lab Sample ID: 200-66552-4  
 Matrix: Air Lab File ID: 54139-006.d  
 Analysis Method: TO-15 Date Collected: 01/21/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 01/27/2023 12:12  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 187889 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.20	U	0.20	0.044
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.044
74-83-9	Bromomethane	0.20	U	0.20	0.071
74-87-3	Chloromethane	0.50	U	0.50	0.15
75-00-3	Chloroethane	0.50	U	0.50	0.18
75-01-4	Vinyl chloride	0.20	U	0.20	0.021
75-09-2	Methylene Chloride	0.50	U	0.50	0.18
75-15-0	Carbon disulfide	0.50	U	0.50	0.13
75-25-2	Bromoform	0.20	U	0.20	0.12
75-27-4	Bromodichloromethane	0.20	U	0.20	0.050
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.025
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.026
75-65-0	tert-Butyl alcohol	5.0	U	5.0	1.2
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.050
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.053
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.048
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.094
78-93-3	Methyl ethyl ketone (MEK)	0.50	U	0.50	0.49
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.074
79-01-6	Trichloroethene	0.20	U	0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043
80-62-6	Methyl methacrylate	0.50	U	0.50	0.14
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.11
91-20-3	Naphthalene	0.50	U	0.50	0.30
95-47-6	Xylene, o-	0.20	U	0.20	0.052
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.046
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.066
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.080
591-78-6	2-Hexanone	0.50	U	0.50	0.15



Eurofins Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230127-54139.b\54139-006.d  
 Lims ID: 200-66552-A-4  
 Client ID: 34001973  
 Sample Type: Client  
 Inject. Date: 27-Jan-2023 12:12:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0054139-006  
 Misc. Info.: 66552-4  
 Operator ID: wrd Instrument ID: CHW.i  
 Method: \\chromfs\Burlington\ChromData\CHW.i\20230127-54139.b\TO15\_TO3\_MasterMethod\_W.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 30-Jan-2023 08:04:35 Calib Date: 08-Jan-2023 00:10:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20230107-53923.b\53923-014.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX1623

First Level Reviewer: BKZ7

Date: 27-Jan-2023 13:17:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.094				ND	7
2 Dichlorodifluoromethane	85		4.185				ND	7
3 Chlorodifluoromethane	51		4.223				ND	MU
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.522				ND	
5 Chloromethane	50		4.640				ND	7
6 Vinyl chloride	62		4.939				ND	
7 Butane	43		4.939				ND	7
8 Butadiene	54		5.052				ND	
9 Bromomethane	94		5.747				ND	
10 Chloroethane	64		6.009				ND	
13 Vinyl bromide	106		6.427				ND	
14 Trichlorofluoromethane	101		6.587				ND	
16 Ethanol	45		6.951				ND	
20 1,1-Dichloroethene	96		7.636				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	101		7.678				ND	
22 Acetone	43		7.711				ND	7
23 Isopropyl alcohol	45		8.010				ND	
24 Carbon disulfide	76	8.042	8.042	0.000	94	1842	0.0380	
26 3-Chloro-1-propene	41		8.326				ND	
27 Methylene Chloride	49		8.556				ND	7
28 2-Methyl-2-propanol	59		8.775				ND	
30 trans-1,2-Dichloroethene	61		9.053				ND	
31 Methyl tert-butyl ether	73		9.064				ND	
32 Hexane	57		9.556				ND	
33 1,1-Dichloroethane	63		9.802				ND	
34 Vinyl acetate	43		9.818				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
36 2-Butanone (MEK)	72		10.765				ND	
37 cis-1,2-Dichloroethene	96		10.787				ND	
38 Ethyl acetate	88		10.851				ND	
* 39 Chlorobromomethane	128	11.198	11.199	-0.001	91	108418	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
40 Tetrahydrofuran	42		11.247				ND	
41 Chloroform	83		11.375				ND	
42 1,1,1-Trichloroethane	97		11.675				ND	
43 Cyclohexane	84		11.819				ND	
44 Carbon tetrachloride	117		11.958				ND	
45 Benzene	78		12.301				ND	MU
46 1,2-Dichloroethane	62		12.375				ND	
47 Isooctane	57		12.520				ND	
48 n-Heptane	43		12.830				ND	7
* 49 1,4-Difluorobenzene	114	13.039	13.039	0.000	94	573471	10.0	
51 Trichloroethene	95		13.467				ND	
53 1,2-Dichloropropane	63		13.916				ND	
54 Methyl methacrylate	69		14.018				ND	
55 1,4-Dioxane	88		14.061				ND	
57 Dibromomethane	174		14.077				ND	
58 Dichlorobromomethane	83		14.387				ND	
59 cis-1,3-Dichloropropene	75		15.189				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.452				ND	
62 Toluene	92		15.826				ND	7
66 trans-1,3-Dichloropropene	75		16.243				ND	
67 1,1,2-Trichloroethane	83		16.618				ND	
68 Tetrachloroethene	166		16.816				ND	
69 2-Hexanone	43		17.035				ND	
70 Chlorodibromomethane	129		17.351				ND	
71 Ethylene Dibromide	107		17.591				ND	
* 73 Chlorobenzene-d5	117	18.501	18.501	0.000	86	474252	10.0	
74 Chlorobenzene	112		18.560				ND	7
75 Ethylbenzene	91		18.758				ND	7
76 m-Xylene & p-Xylene	106		19.020				ND	7
78 o-Xylene	106		19.790				ND	
79 Styrene	104		19.828				ND	
S 80 Xylenes, Total	106		20.100				ND	7
81 Bromoform	173		20.186				ND	
82 Isopropylbenzene	105		20.518				ND	7
83 1,1,2,2-Tetrachloroethane	83		21.053				ND	7
85 N-Propylbenzene	91		21.261				ND	7
86 2-Chlorotoluene	91		21.406				ND	7
87 4-Ethyltoluene	105		21.465				ND	7
88 1,3,5-Trimethylbenzene	105		21.561				ND	7
91 tert-Butylbenzene	119		22.053				ND	7
92 1,2,4-Trimethylbenzene	105		22.139				ND	7
93 sec-Butylbenzene	105		22.385				ND	7
94 1,3-Dichlorobenzene	146	22.561	22.551	0.010	81	546	0.0111	
95 4-Isopropyltoluene	119		22.604				ND	7
96 1,4-Dichlorobenzene	146	22.700	22.695	0.005	87	577	0.0121	
97 Benzyl chloride	91		22.845				ND	7
98 n-Butylbenzene	91		23.160				ND	7
99 1,2-Dichlorobenzene	146	23.192	23.182	0.010	88	552	0.0118	
102 1,2,4-Trichlorobenzene	180	25.573	25.557	0.016	70	493	0.0171	
103 Hexachlorobutadiene	225		25.803				ND	
104 Naphthalene	128		26.017				ND	MU



**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15WISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230127-54139.b\54139-006.d

Injection Date: 27-Jan-2023 12:12:30

Instrument ID: CHW.i

Operator ID: wrd

Lims ID: 200-66552-A-4

Lab Sample ID: 200-66552-4

Worklist Smp#: 6

Client ID: 34001973

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

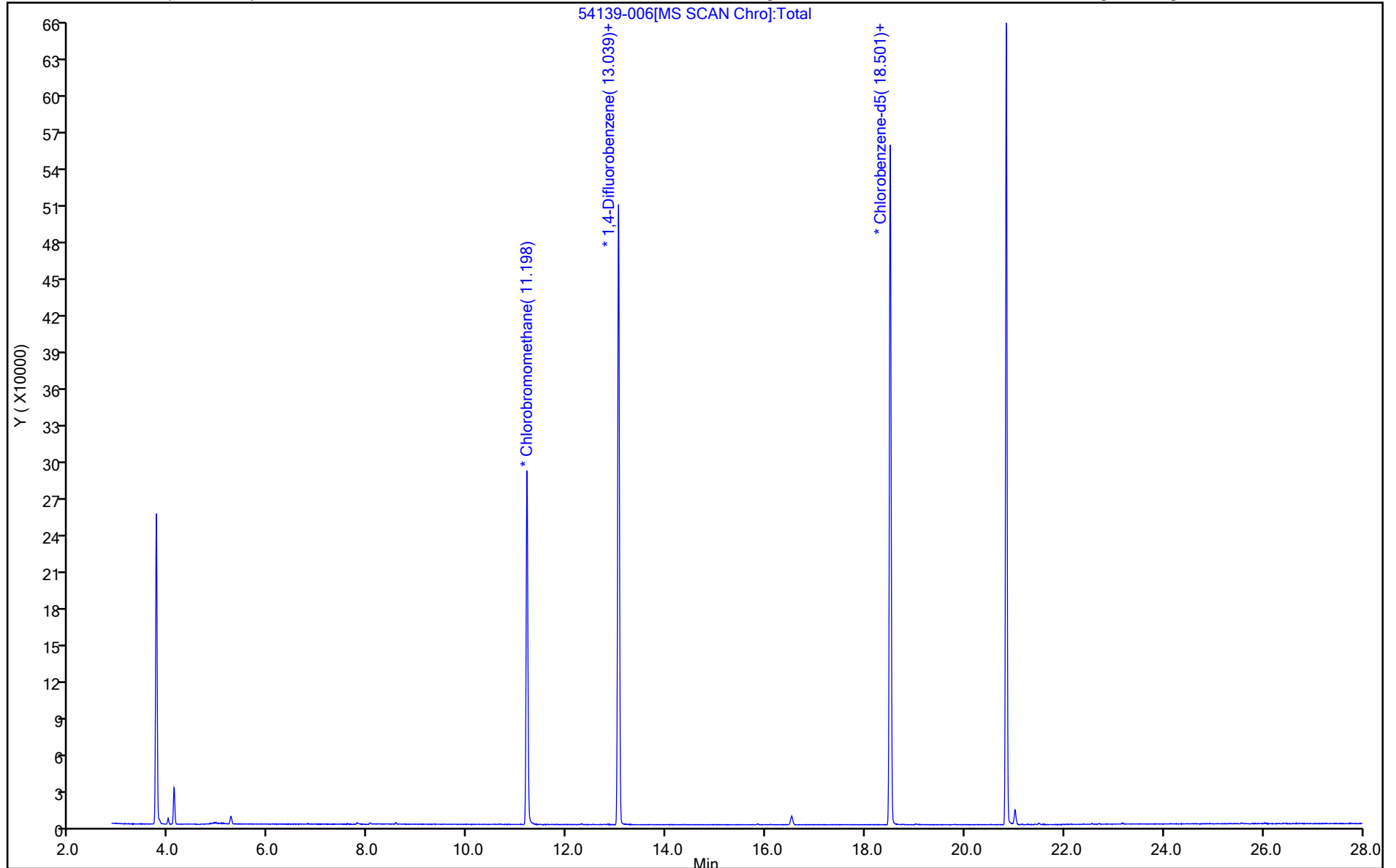
ALS Bottle#: 5

Method: TO15\_TO3\_MasterMethod\_W

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

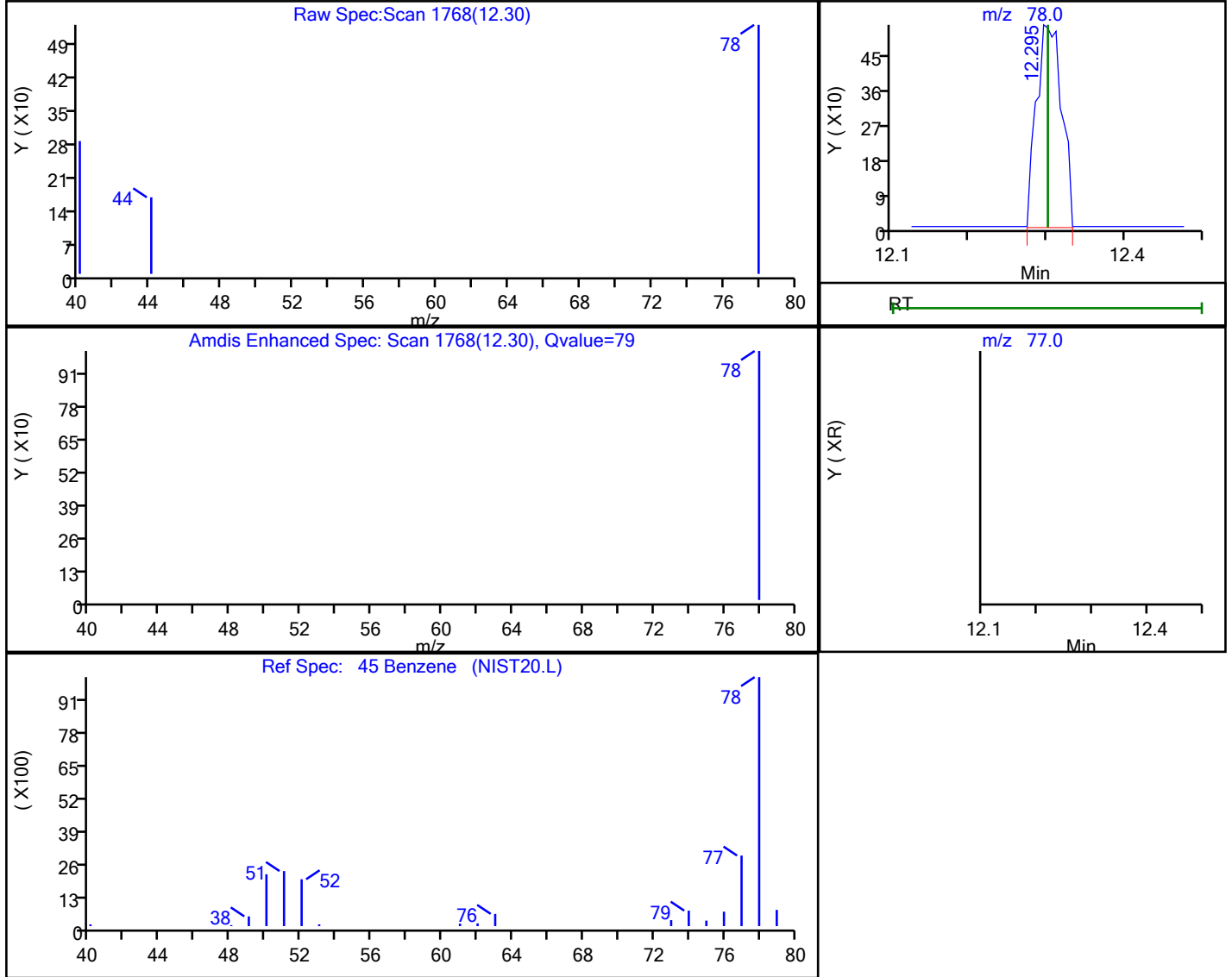


Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230127-54139.b\54139-006.d  
 Injection Date: 27-Jan-2023 12:12:30 Instrument ID: CHW.i  
 Lims ID: 200-66552-A-4 Lab Sample ID: 200-66552-4  
 Client ID: 34001973  
 Operator ID: wrd ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_TO3\_MasterMethod\_W Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

45 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
12.30	78.00	1195	0.022172
12.30	77.00	0	

Reviewer: BKZ7, 27-Jan-2023 13:16:31

Audit Action: Marked Compound Undetected

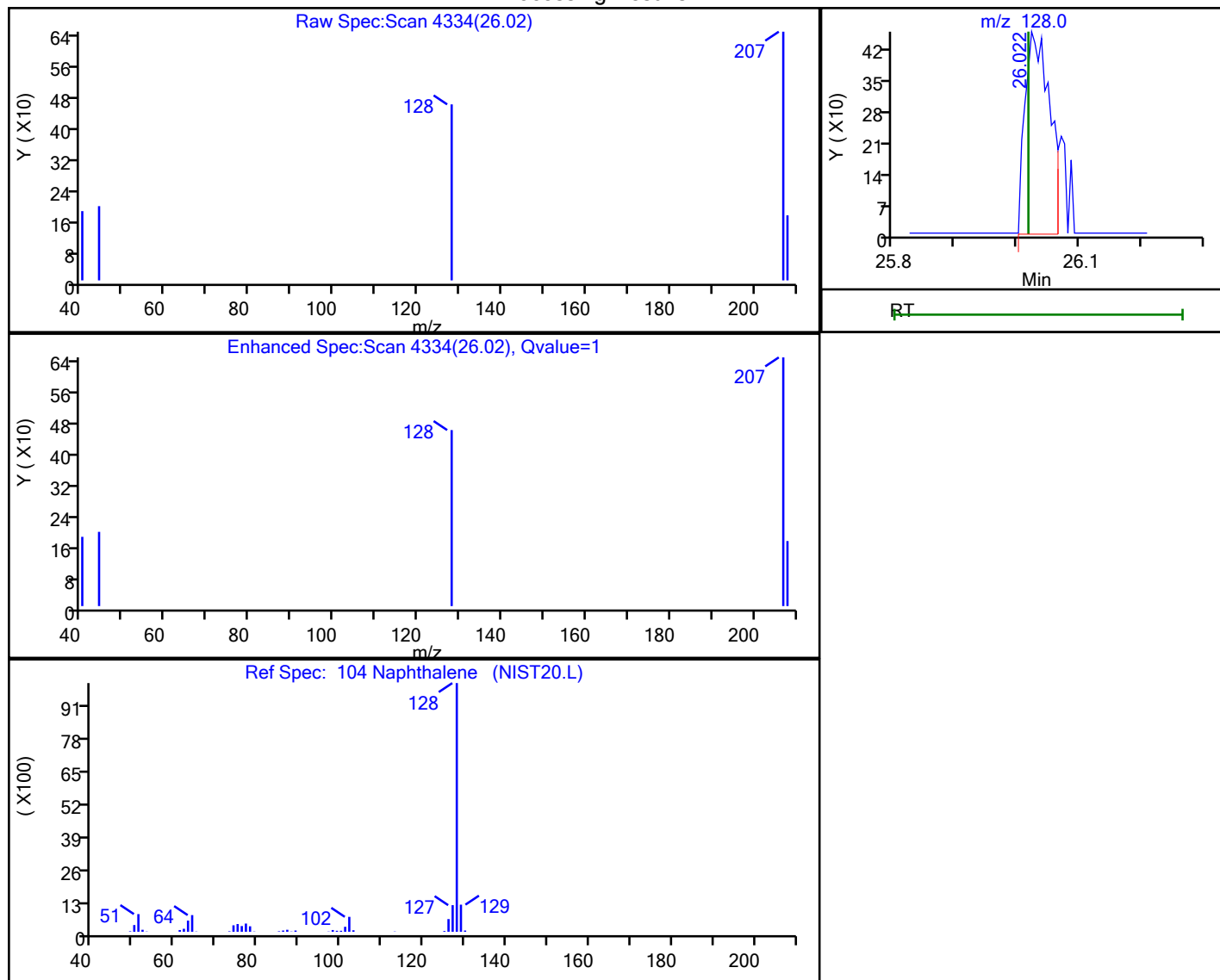
Audit Reason: Invalid Compound ID

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230127-54139.b\54139-006.d  
 Injection Date: 27-Jan-2023 12:12:30 Instrument ID: CHW.i  
 Lims ID: 200-66552-A-4 Lab Sample ID: 200-66552-4  
 Client ID: 34001973  
 Operator ID: wrd ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_TO3\_MasterMethod\_W Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector MS SCAN

104 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
26.02	128.00	1276	0.021781

Reviewer: bunmaa, 30-Jan-2023 08:04:31

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66791-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 6449 Lab Sample ID: 200-66791-9  
 Matrix: Air Lab File ID: 54304-005.d  
 Analysis Method: TO-15 Date Collected: 02/10/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 02/13/2023 11:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 188374 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.20	U	0.20	0.052
100-42-5	Styrene	0.20	U	0.20	0.059
10061-01-5	1,3-Dichloropropene, cis-	0.20	U	0.20	0.045
10061-02-6	1,3-Dichloropropene, trans-	0.20	U	0.20	0.054
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.089
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.042
106-99-0	1,3-Butadiene	0.20	U	0.20	0.039
107-05-1	Allyl chloride	0.50	U	0.50	0.12
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.093
108-10-1	Methyl isobutyl ketone (MIBK)	0.50	U	0.50	0.13
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.047
108-88-3	Toluene	0.20	U	0.20	0.042
108-90-7	Chlorobenzene	0.20	U	0.20	0.044
109-99-9	Tetrahydrofuran	5.0	U	5.0	1.3
110-54-3	Hexane	0.50	U	0.50	0.11
110-82-7	Cyclohexane	0.20	U	0.20	0.058
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.33
123-91-1	1,4-Dioxane	0.20	U	0.20	0.078
124-48-1	Dibromochloromethane	0.20	U	0.20	0.063
127-18-4	Tetrachloroethene	0.20	U	0.20	0.021
142-82-5	n-Heptane	0.20	U	0.20	0.055
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.021
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.036
179601-23-1	m,p-Xylene	0.50	U	0.50	0.095
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.038
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.074
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.022
593-60-2	Vinyl bromide	0.20	U	0.20	0.050
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.049
64-17-5	Ethanol	5.0	U	5.0	2.6
67-63-0	Isopropanol	5.0	U	5.0	1.6
67-64-1	Acetone	5.0	U	5.0	1.6
67-66-3	Chloroform	0.20	U	0.20	0.041

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66791-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 6449 Lab Sample ID: 200-66791-9  
 Matrix: Air Lab File ID: 54304-005.d  
 Analysis Method: TO-15 Date Collected: 02/10/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 02/13/2023 11:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 188374 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.20	U	0.20	0.044
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.044
74-83-9	Bromomethane	0.20	U	0.20	0.071
74-87-3	Chloromethane	0.50	U	0.50	0.15
75-00-3	Chloroethane	0.50	U	0.50	0.18
75-01-4	Vinyl chloride	0.20	U	0.20	0.021
75-09-2	Methylene Chloride	0.50	U	0.50	0.18
75-15-0	Carbon disulfide	0.50	U	0.50	0.13
75-25-2	Bromoform	0.20	U	0.20	0.12
75-27-4	Bromodichloromethane	0.20	U	0.20	0.050
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.025
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.026
75-65-0	tert-Butyl alcohol	5.0	U	5.0	1.2
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.050
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.053
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.048
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.094
78-93-3	Methyl ethyl ketone (MEK)	0.50	U	0.50	0.49
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.074
79-01-6	Trichloroethene	0.20	U	0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043
80-62-6	Methyl methacrylate	0.50	U	0.50	0.14
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.11
91-20-3	Naphthalene	0.50	U	0.50	0.30
95-47-6	Xylene, o-	0.20	U	0.20	0.052
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.046
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.066
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.080
591-78-6	2-Hexanone	0.50	U	0.50	0.15

Eurofins Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230213-54304.b\54304-005.d  
 Lims ID: 200-66791-A-9  
 Client ID: 6449  
 Sample Type: Client  
 Inject. Date: 13-Feb-2023 11:45:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0054304-005  
 Operator ID: wrd Instrument ID: CHW.i  
 Method: \\chromfs\Burlington\ChromData\CHW.i\20230213-54304.b\TO15\_TO3\_MasterMethod\_W.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 13-Feb-2023 15:10:58 Calib Date: 01-Feb-2023 00:48:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20230131-54170.b\54170-013.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX1648

First Level Reviewer: bunmaa

Date: 14-Feb-2023 07:37:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.164				ND	
2 Dichlorodifluoromethane	85		4.255				ND	
3 Chlorodifluoromethane	51		4.297				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.597				ND	
5 Chloromethane	50		4.709				ND	7
6 Vinyl chloride	62		5.004				ND	
7 Butane	43		5.009				ND	7
8 Butadiene	54		5.116				ND	
9 Bromomethane	94		5.806				ND	
10 Chloroethane	64		6.068				ND	
13 Vinyl bromide	106		6.480				ND	
14 Trichlorofluoromethane	101		6.635				ND	
16 Ethanol	45		7.042				ND	
20 1,1-Dichloroethene	96		7.673				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	101		7.716				ND	
22 Acetone	43		7.785				ND	
24 Carbon disulfide	76	8.047	8.063	-0.027	94	1030	0.0207	
23 Isopropyl alcohol	45		8.122				ND	
26 3-Chloro-1-propene	41		8.358				ND	
27 Methylene Chloride	49		8.583				ND	7
28 2-Methyl-2-propanol	59		8.930				ND	
30 trans-1,2-Dichloroethene	61		9.080				ND	
31 Methyl tert-butyl ether	73		9.144				ND	
32 Hexane	57		9.578				ND	
33 1,1-Dichloroethane	63		9.824				ND	
34 Vinyl acetate	43		9.856				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
37 cis-1,2-Dichloroethene	96		10.803				ND	
36 2-Butanone (MEK)	72		10.813				ND	
38 Ethyl acetate	88		10.899				ND	
* 39 Chlorobromomethane	128	11.193	11.209	-0.016	93	106748	10.0	
40 Tetrahydrofuran	42		11.306				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		11.386				ND	
42 1,1,1-Trichloroethane	97		11.691				ND	
43 Cyclohexane	84		11.830				ND	
44 Carbon tetrachloride	117		11.969				ND	
45 Benzene	78		12.306				ND	
46 1,2-Dichloroethane	62		12.381				ND	
47 Isooctane	57		12.531				ND	
48 n-Heptane	43		12.841				ND	
* 49 1,4-Difluorobenzene	114	13.033	13.044	-0.011	95	575884	10.0	
51 Trichloroethene	95		13.472				ND	
53 1,2-Dichloropropane	63		13.922				ND	
54 Methyl methacrylate	69		14.034				ND	
57 Dibromomethane	174		14.077				ND	
55 1,4-Dioxane	88		14.141				ND	
58 Dichlorobromomethane	83		14.387				ND	
59 cis-1,3-Dichloropropene	75		15.189				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.521				ND	
62 Toluene	92		15.826				ND	
66 trans-1,3-Dichloropropene	75		16.243				ND	
67 1,1,2-Trichloroethane	83		16.618				ND	
68 Tetrachloroethene	166		16.816				ND	
69 2-Hexanone	43		17.163				ND	
70 Chlorodibromomethane	129		17.351				ND	
71 Ethylene Dibromide	107		17.586				ND	
* 73 Chlorobenzene-d5	117	18.501	18.496	0.005	87	463737	10.0	
74 Chlorobenzene	112		18.554				ND	
75 Ethylbenzene	91		18.752				ND	
76 m-Xylene & p-Xylene	106		19.014				ND	
78 o-Xylene	106		19.785				ND	
79 Styrene	104		19.822				ND	
S 80 Xylenes, Total	106		20.100				ND	7
81 Bromoform	173		20.181				ND	
82 Isopropylbenzene	105		20.512				ND	
83 1,1,2,2-Tetrachloroethane	83		21.047				ND	
85 N-Propylbenzene	91		21.256				ND	7
86 2-Chlorotoluene	91		21.400				ND	7
87 4-Ethyltoluene	105		21.459				ND	
88 1,3,5-Trimethylbenzene	105		21.556				ND	
91 tert-Butylbenzene	119		22.048				ND	
92 1,2,4-Trimethylbenzene	105		22.139				ND	
93 sec-Butylbenzene	105		22.379				ND	
94 1,3-Dichlorobenzene	146		22.551				ND	7
95 4-Isopropyltoluene	119		22.599				ND	
96 1,4-Dichlorobenzene	146		22.695				ND	7
97 Benzyl chloride	91		22.845				ND	7
98 n-Butylbenzene	91		23.155				ND	
99 1,2-Dichlorobenzene	146		23.182				ND	7
102 1,2,4-Trichlorobenzene	180		25.557				ND	
103 Hexachlorobutadiene	225		25.798				ND	
104 Naphthalene	128		26.017				ND	7



**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

ATTO15WISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230213-54304.b\54304-005.d

Injection Date: 13-Feb-2023 11:45:30

Instrument ID: CHW.i

Operator ID: wrd

Lims ID: 200-66791-A-9

Lab Sample ID: 200-66791-9

Worklist Smp#: 5

Client ID: 6449

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

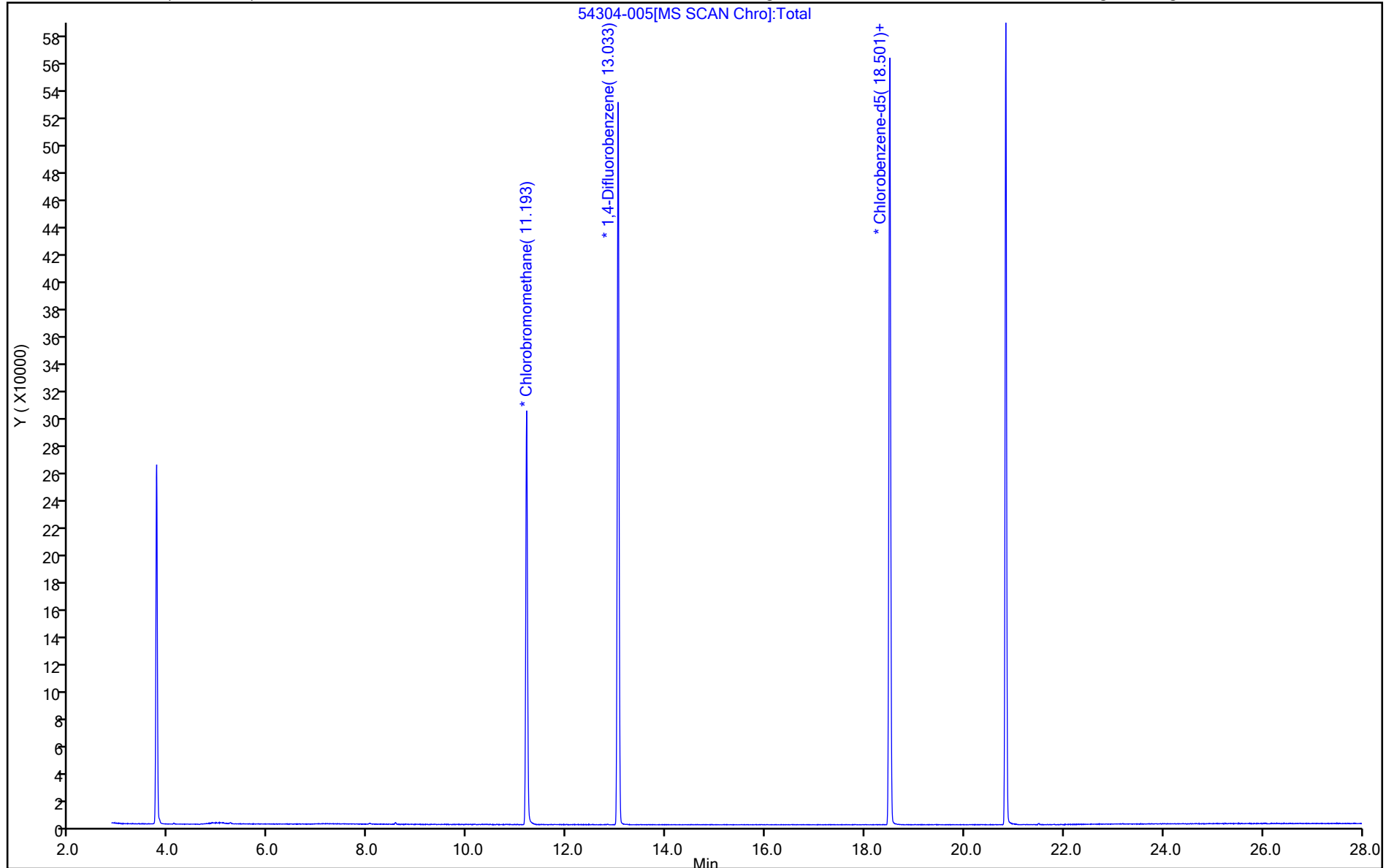
ALS Bottle#: 4

Method: TO15\_TO3\_MasterMethod\_W

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66886-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4850 Lab Sample ID: 200-66886-1  
 Matrix: Air Lab File ID: 200-54412-006.D  
 Analysis Method: TO-15 Date Collected: 02/17/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 02/20/2023 11:36  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 188630 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene (Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U **	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66886-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4850 Lab Sample ID: 200-66886-1  
 Matrix: Air Lab File ID: 200-54412-006.D  
 Analysis Method: TO-15 Date Collected: 02/17/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 02/20/2023 11:36  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 188630 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-66886-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4850 Lab Sample ID: 200-66886-1  
 Matrix: Air Lab File ID: 200-54412-006.D  
 Analysis Method: TO-15 Date Collected: 02/17/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 02/20/2023 11:36  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 188630 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D  
 Lims ID: 200-66886-A-1  
 Client ID: 4850  
 Sample Type: Client  
 Inject. Date: 20-Feb-2023 11:36:30 ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0054412-006  
 Misc. Info.: 66886-1  
 Operator ID: vtp Instrument ID: CHG.i  
 Method: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 21-Feb-2023 09:59:29 Calib Date: 09-Feb-2023 01:11:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Burlington\ChromData\CHG.i\20230208-54269.b\200-54269-013.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX1604

First Level Reviewer: puangmaleek

Date: 21-Feb-2023 09:59:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.110				ND	7
2 Dichlorodifluoromethane	85		3.169				ND	7
3 Chlorodifluoromethane	51		3.190				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.393				ND	7
5 Chloromethane	50		3.468				ND	7
6 Vinyl chloride	62		3.672				ND	
7 Butane	43		3.677				ND	MU
8 Butadiene	54		3.747				ND	
9 Bromomethane	94		4.244				ND	
10 Chloroethane	64		4.437				ND	
12 Vinyl bromide	106		4.763				ND	
13 Trichlorofluoromethane	101		4.886				ND	7
15 Ethanol	45		5.180				ND	MU
18 1,1-Dichloroethene	96		5.785				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	101		5.817				ND	
19 Acetone	43		5.849				ND	7
22 Isopropyl alcohol	45		6.111				ND	7
23 Carbon disulfide	76		6.165				ND	
25 3-Chloro-1-propene	41		6.416				ND	7
26 Methylene Chloride	49		6.630				ND	7
27 2-Methyl-2-propanol	59		6.844				ND	
29 trans-1,2-Dichloroethene	61		7.117				ND	
30 Methyl tert-butyl ether	73		7.138				ND	
31 Hexane	57		7.620				ND	7
32 1,1-Dichloroethane	63		7.860				ND	
33 Vinyl acetate	43		7.876				ND	
34 2-Butanone (MEK)	72		8.834				ND	
35 cis-1,2-Dichloroethene	96		8.845				ND	
36 Ethyl acetate	88		8.920				ND	
* 37 Chlorobromomethane	128	9.262	9.262	0.000	93	136911	10.0	
38 Tetrahydrofuran	42		9.337				ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
39 Chloroform	83		9.444				ND	
S 43 1,2-Dichloroethene, Total	61		9.665				ND	7
40 1,1,1-Trichloroethane	97		9.770				ND	
41 Cyclohexane	84		9.920				ND	
42 Carbon tetrachloride	117		10.070				ND	
44 Benzene	78		10.439				ND	MU
45 1,2-Dichloroethane	62		10.514				ND	
46 Isooctane	57		10.696				ND	
47 n-Heptane	43		11.038				ND	7
* 48 1,4-Difluorobenzene	114	11.252	11.252	0.000	97	698803	10.0	
50 Trichloroethene	95		11.728				ND	
51 1,2-Dichloropropane	63		12.242				ND	
54 Methyl methacrylate	69		12.376				ND	
53 Dibromomethane	174		12.413				ND	
55 1,4-Dioxane	88		12.413				ND	
56 Dichlorobromomethane	83		12.761				ND	
58 cis-1,3-Dichloropropene	75		13.649				ND	
59 4-Methyl-2-pentanone (MIBK)	43		13.970				ND	7
60 Toluene	92		14.355				ND	7
65 trans-1,3-Dichloropropene	75		14.799				ND	
66 1,1,2-Trichloroethane	83		15.200				ND	
67 Tetrachloroethene	166		15.420				ND	
68 2-Hexanone	43		15.682				ND	7
69 Chlorodibromomethane	129		15.987				ND	
70 Ethylene Dibromide	107		16.233				ND	
* 71 Chlorobenzene-d5	117	17.212	17.212	0.000	97	539109	10.0	
72 Chlorobenzene	112		17.276				ND	
73 Ethylbenzene	91	17.506	17.490	0.016	91	3620	0.0578	
74 m-Xylene & p-Xylene	106		17.773				ND	
76 o-Xylene	106	18.581	18.581	0.000	89	1179	0.0537	
77 Styrene	104		18.613				ND	
78 Bromoform	173		18.982				ND	
79 Isopropylbenzene	105		19.346				ND	7
S 82 Xylenes, Total	106				0		0.0537	
80 1,1,2,2-Tetrachloroethane	83		19.892				ND	7
83 N-Propylbenzene	91		20.111				ND	7
84 2-Chlorotoluene	91		20.261				ND	7
85 4-Ethyltoluene	105		20.325				ND	7
86 1,3,5-Trimethylbenzene	105		20.427				ND	7
89 tert-Butylbenzene	119		20.930				ND	7
90 1,2,4-Trimethylbenzene	105		21.021				ND	MU
91 sec-Butylbenzene	105		21.267				ND	7
92 1,3-Dichlorobenzene	146		21.438				ND	MU
93 4-Isopropyltoluene	119		21.497				ND	7
94 1,4-Dichlorobenzene	146		21.588				ND	MU
95 Benzyl chloride	91		21.738				ND	MU
97 n-Butylbenzene	91		22.064				ND	7
96 1,2-Dichlorobenzene	146		22.080				ND	MU
100 1,2,4-Trichlorobenzene	180		24.541				ND	MU
101 Hexachlorobutadiene	225		24.792				ND	7
102 Naphthalene	128	25.012	25.017	0.000	95	3571	0.0712	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15GIS\_00019

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16



Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D

Injection Date: 20-Feb-2023 11:36:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: 200-66886-A-1

Lab Sample ID: 200-66886-1

Worklist Smp#: 6

Client ID: 4850

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

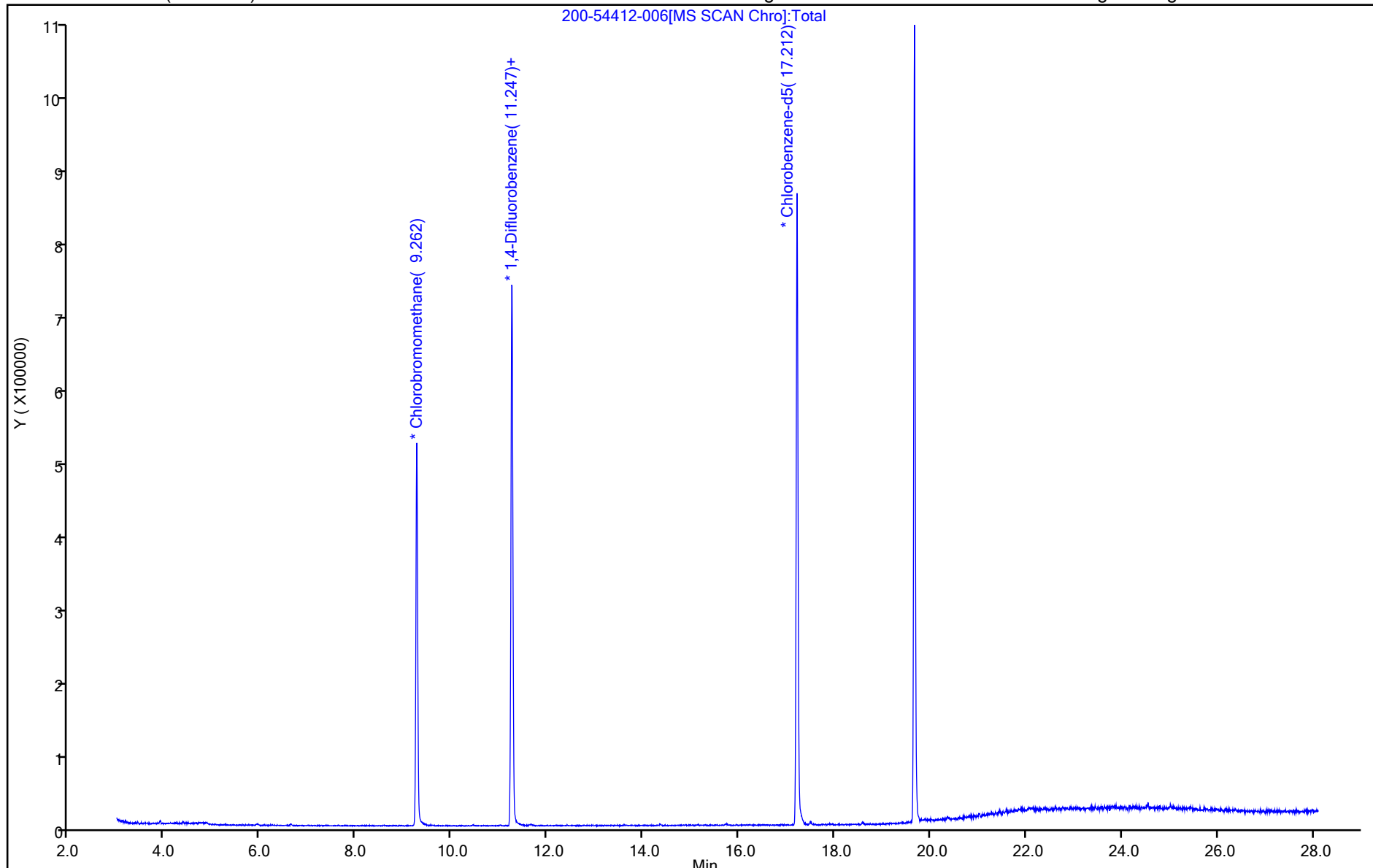
ALS Bottle#: 5

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

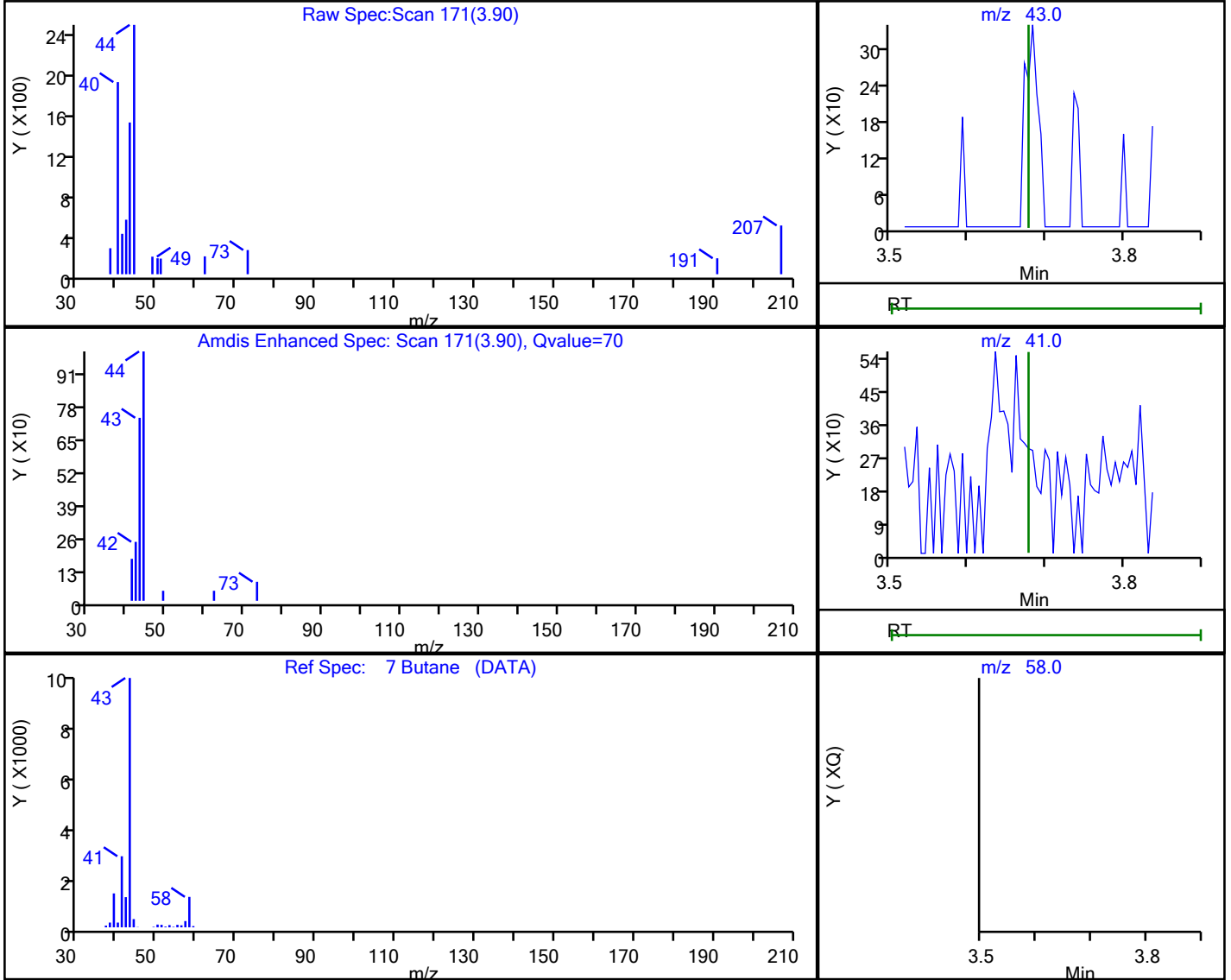


Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D  
 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

7 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
3.90	43.00	2350	0.126738
3.91	41.00	611	
3.68	58.00	0	

Reviewer: puangmaleek, 21-Feb-2023 09:57:36

Audit Action: Marked Compound Undetected

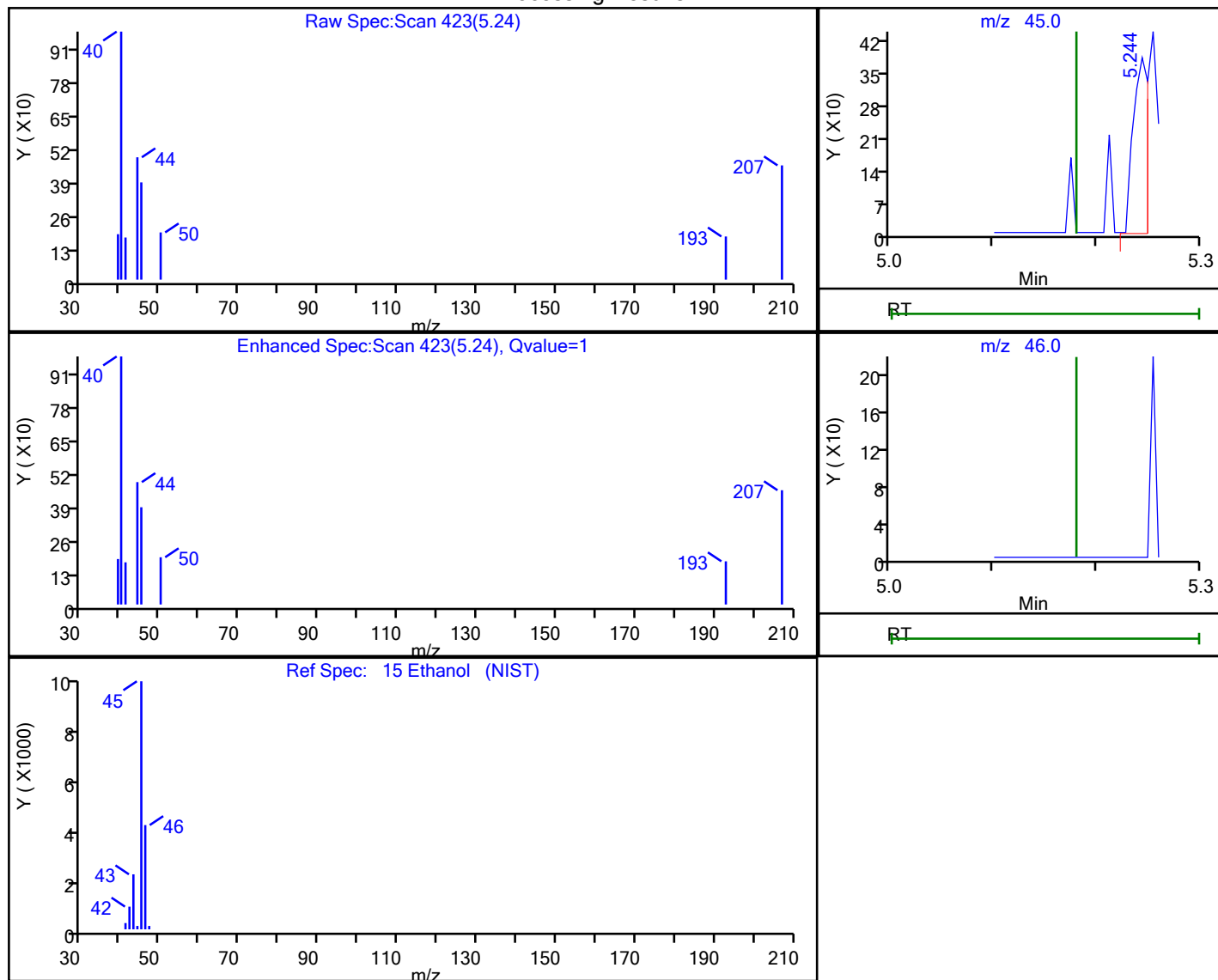
Audit Reason: Invalid Compound ID

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D  
 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

15 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
5.24	45.00	394	0.076794
5.18	46.00	0	

Reviewer: puangmaleek, 21-Feb-2023 09:57:41

Audit Action: Marked Compound Undetected

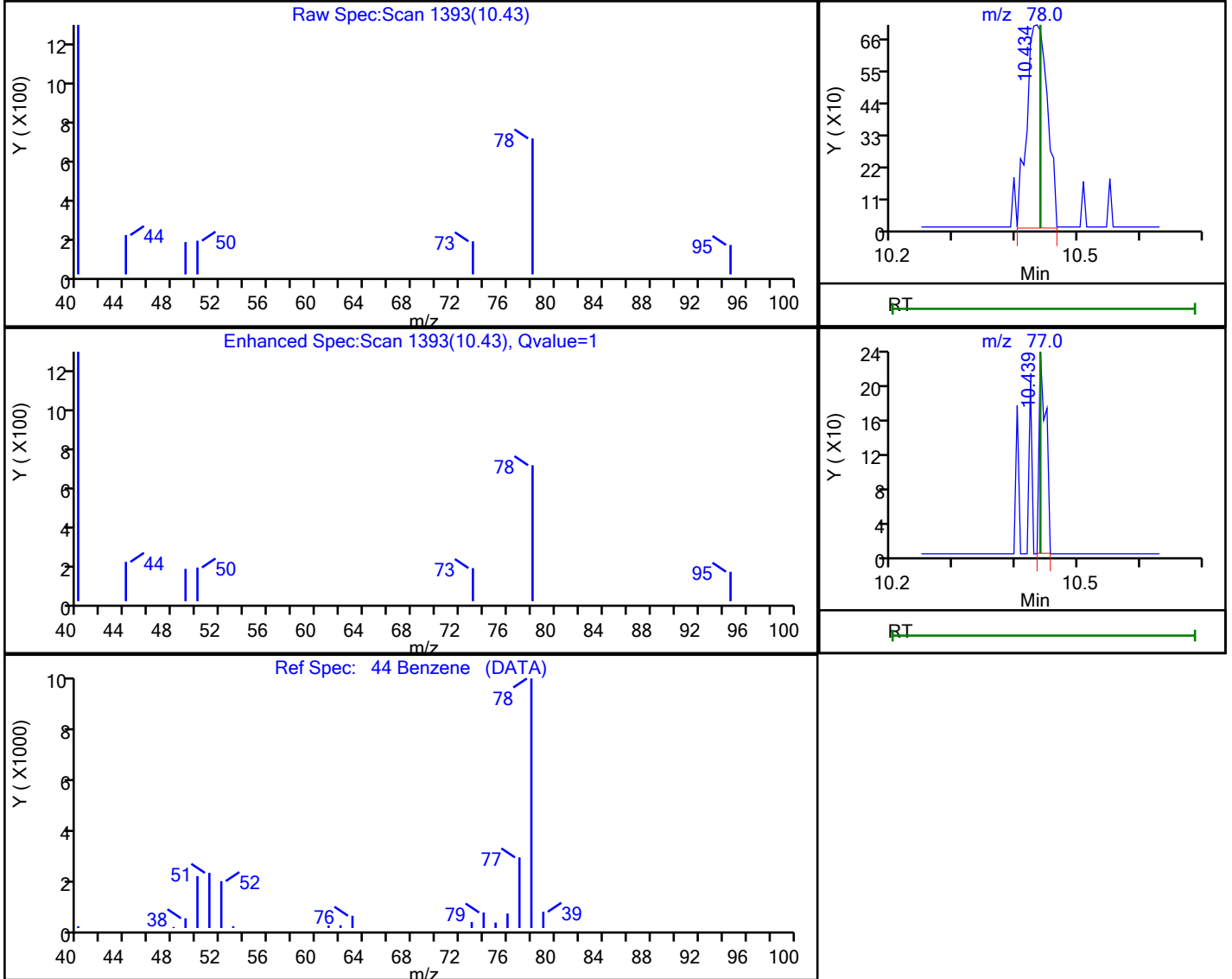
Audit Reason: Invalid Compound ID

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D  
 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
10.43	78.00	1624	0.036553
10.44	77.00	180	

Reviewer: puangmaleek, 21-Feb-2023 09:58:05

Audit Action: Marked Compound Undetected

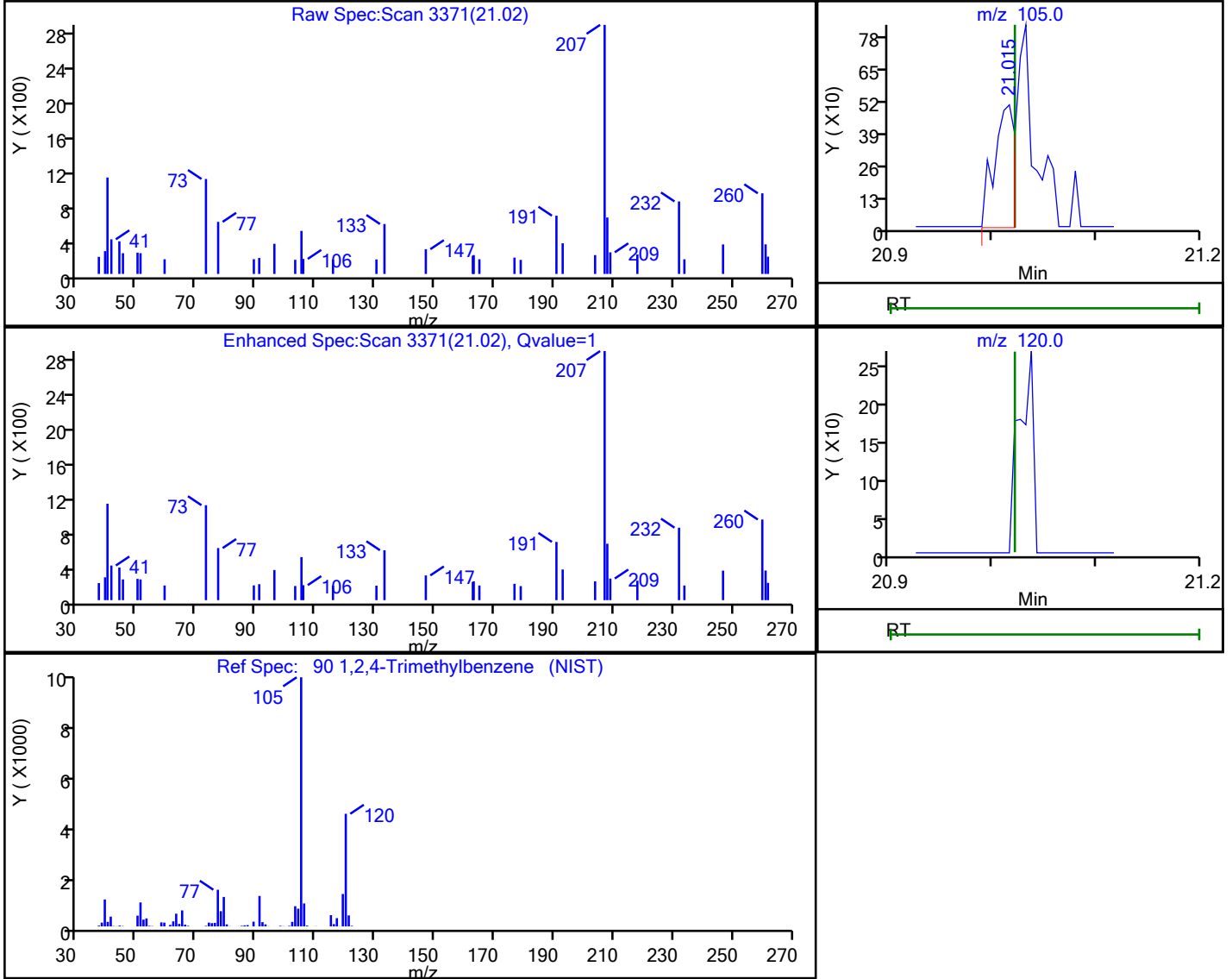
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Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D  
 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
21.02	105.00	689	0.013609
21.02	120.00	0	

Reviewer: puangmaleek, 21-Feb-2023 09:59:12

Audit Action: Marked Compound Undetected

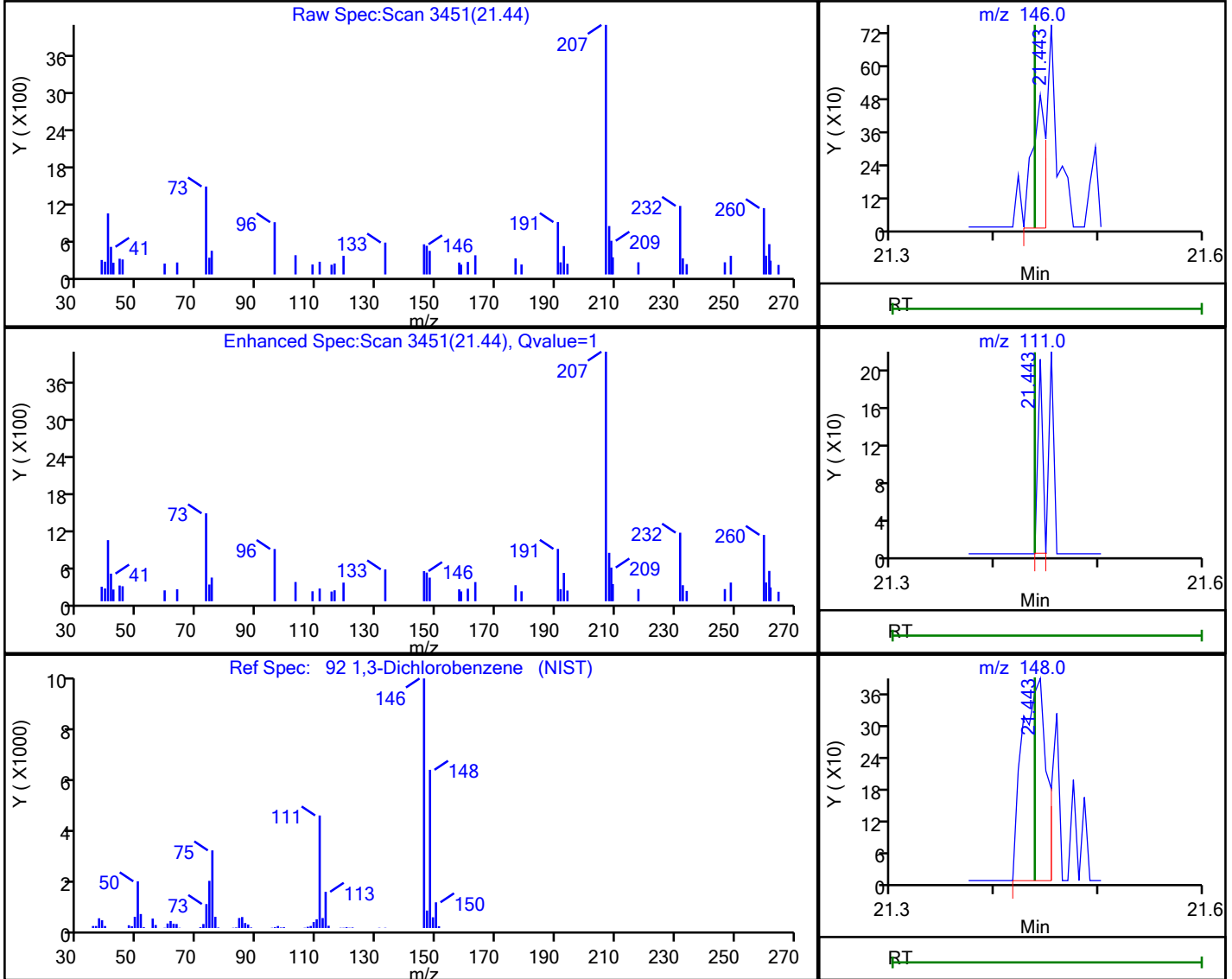
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Eurofins Burlington

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 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
21.44	146.00	442	0.011837
21.44	111.00	66	
21.44	148.00	622	

Reviewer: puangmaleek, 21-Feb-2023 09:59:15

Audit Action: Marked Compound Undetected

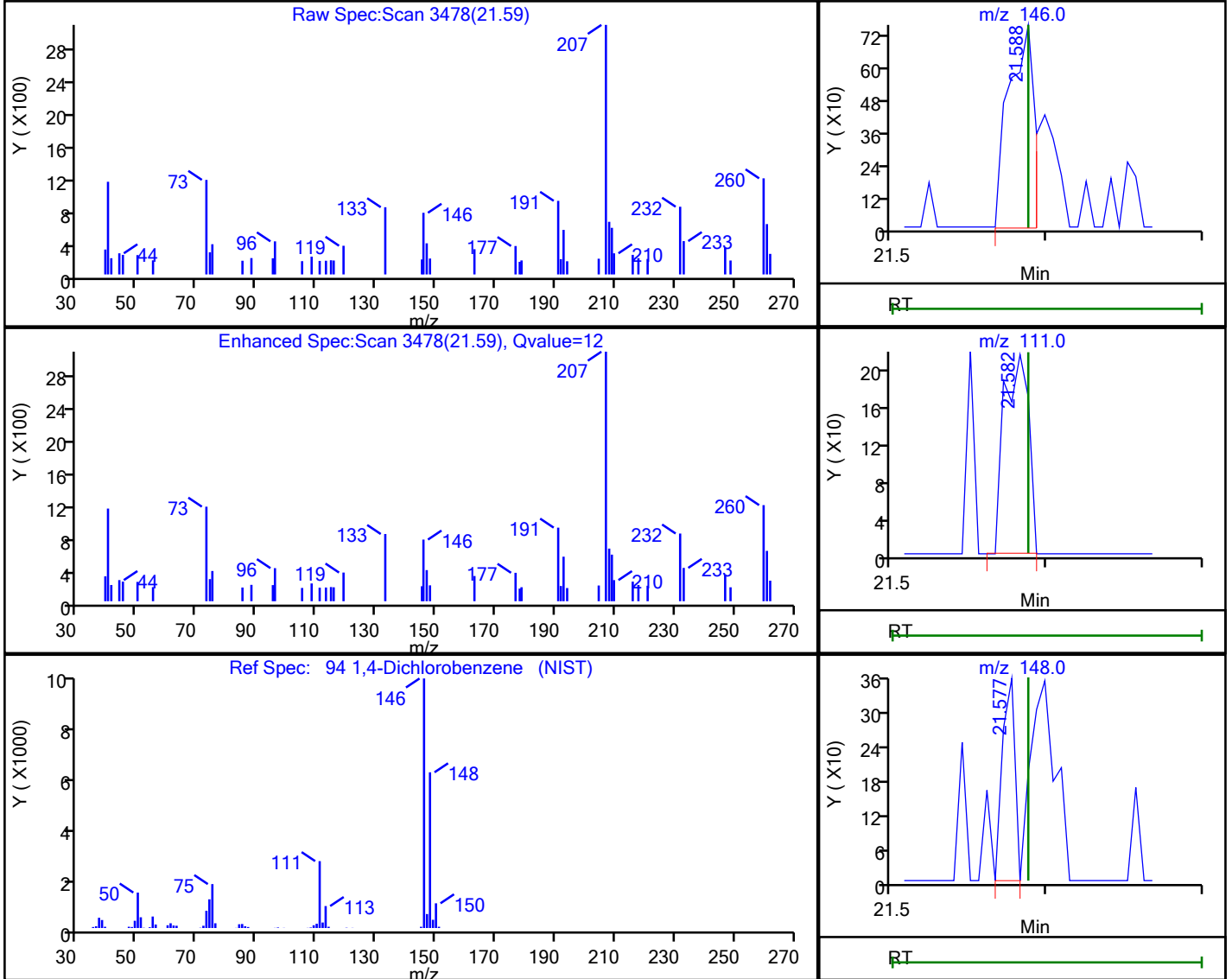
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 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
21.59	146.00	865	0.022998
21.58	111.00	230	
21.58	148.00	202	

Reviewer: puangmaleek, 21-Feb-2023 09:59:18

Audit Action: Marked Compound Undetected

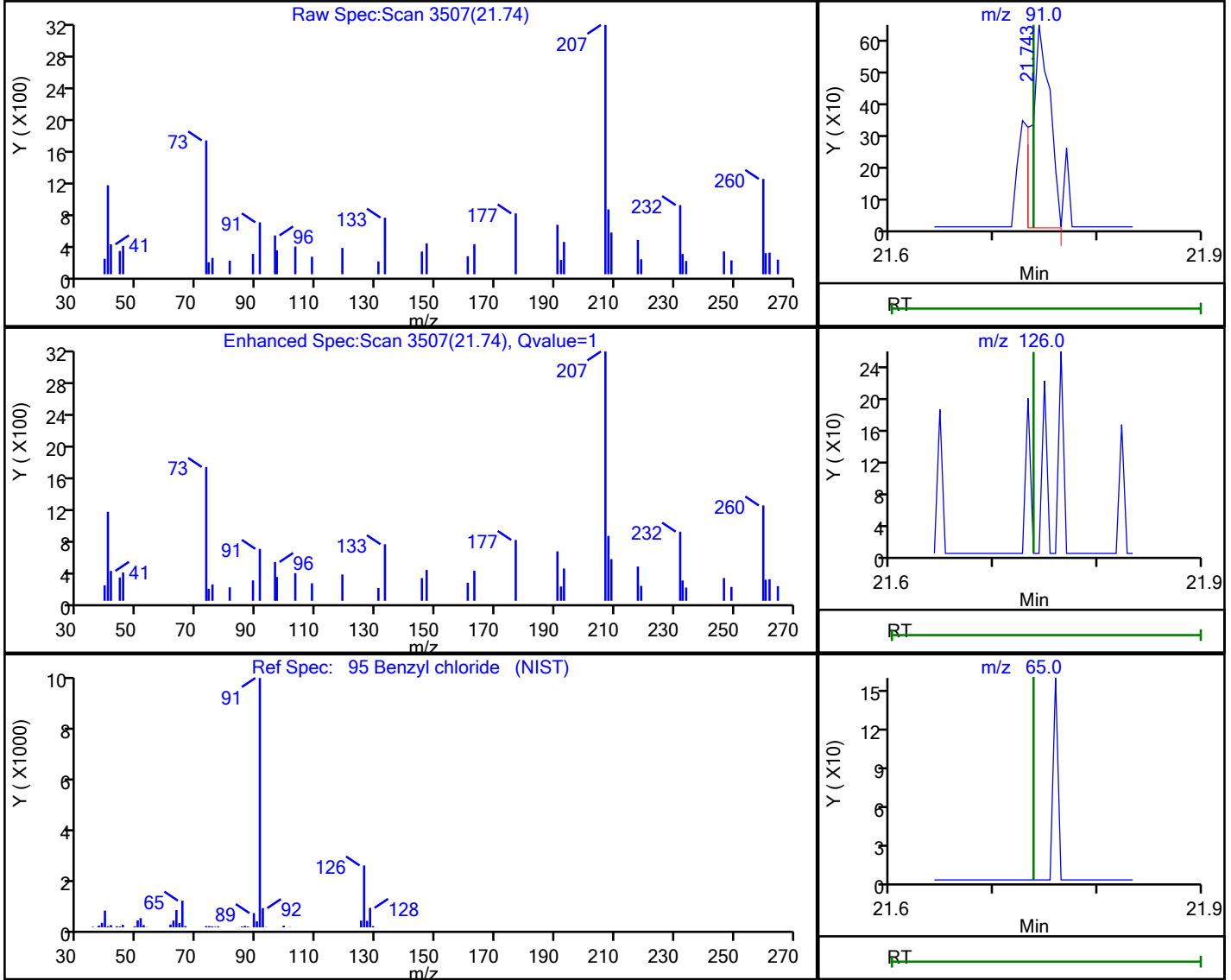
Audit Reason: Invalid Compound ID

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D  
 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

95 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
21.74	91.00	778	0.014805
21.74	126.00	0	
21.74	65.00	0	

Reviewer: puangmaleek, 21-Feb-2023 09:59:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

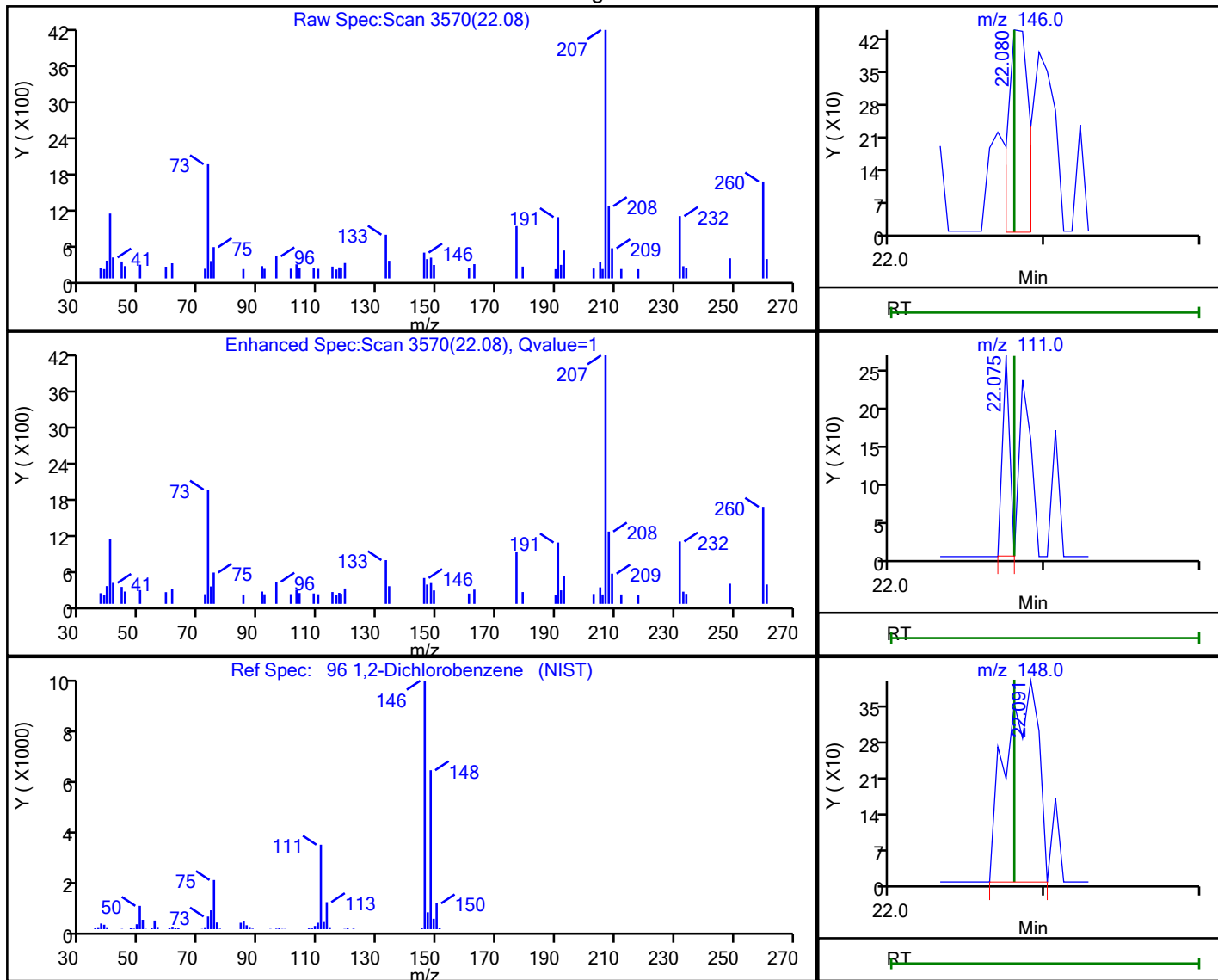


Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D  
 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
22.08	146.00	409	0.011118
22.07	111.00	86	
22.09	148.00	576	

Reviewer: puangmaleek, 21-Feb-2023 09:59:22

Audit Action: Marked Compound Undetected

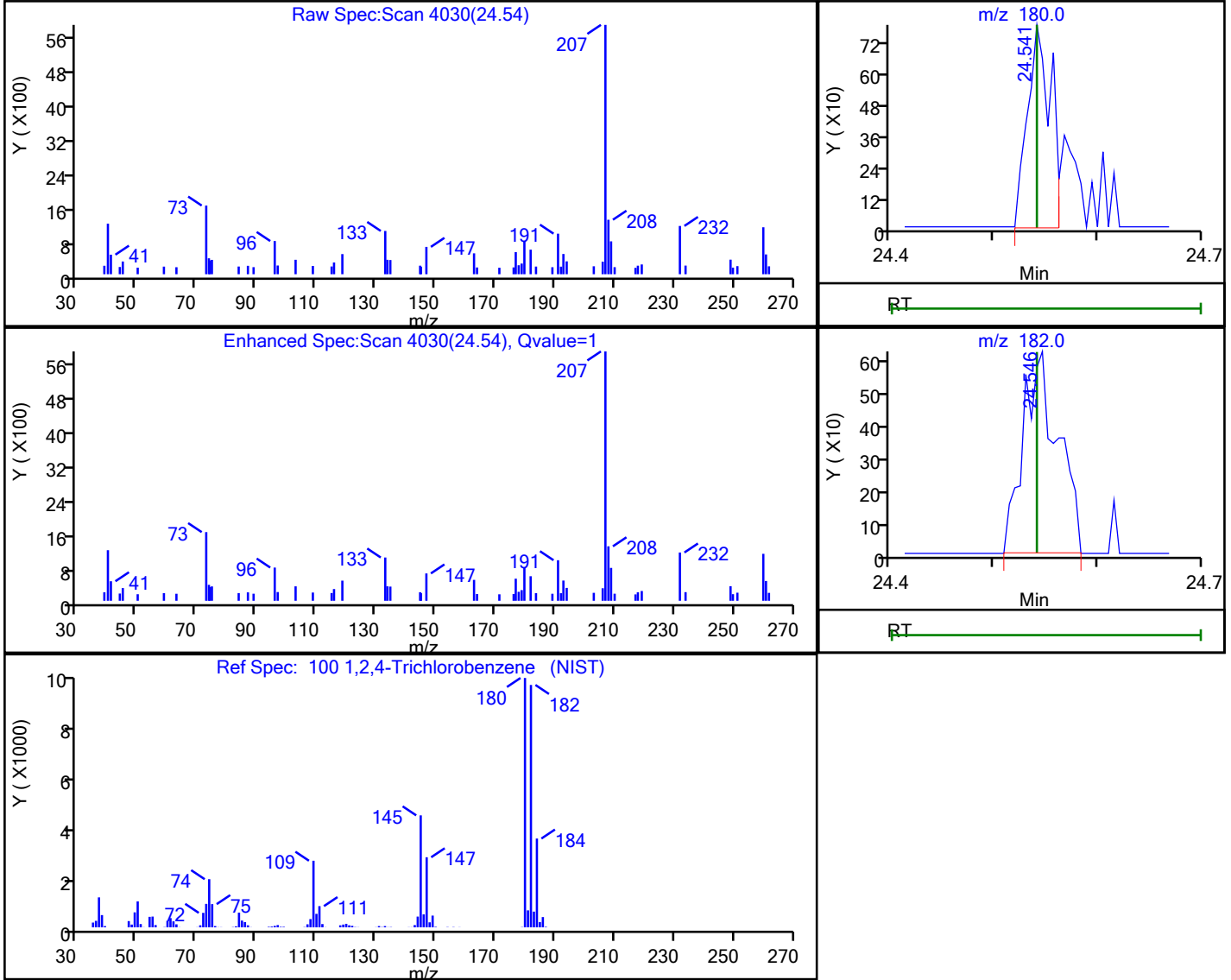
Audit Reason: Invalid Compound ID

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230220-54412.b\200-54412-006.D  
 Injection Date: 20-Feb-2023 11:36:30 Instrument ID: CHG.i  
 Lims ID: 200-66886-A-1 Lab Sample ID: 200-66886-1  
 Client ID: 4850  
 Operator ID: vtp ALS Bottle#: 5 Worklist Smp#: 6  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

100 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
24.54	180.00	1242	0.051906
24.55	182.00	1481	

Reviewer: puangmaleek, 21-Feb-2023 09:59:24

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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# Figures

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Figure 3 – Select Analytical Results

# Appendix A

Boring Logs

# Appendix B

Laboratory Reports

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We're confident in our ability to balance these requirements.

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Building a Better World  
for All of Us®

May 22, 2023

RE: Second Round of Soil Vapor Investigation  
Proposed Air Traffic Control Tower - Site 6  
Duluth, Minnesota  
SEH No. DULAI 171568

Mark Papko  
Duluth Airport Authority  
4701 Grinden Drive  
Duluth, MN 55811

Dear Mr. Papko:

This letter documents the results of the second round of the soil vapor investigation conducted by Short Elliott Hendrickson, Inc. (SEH) at Proposed Air Traffic Control Tower – Site 6 located in Duluth, Minnesota, herein referred to as the Subject Property. This investigation documents the non-heating season round of sub-slab soil vapor sampling conducted within the existing building at the Subject Property. Heating season sub-slab soil vapor samples were collected during the April 2023 Phase II Environmental Site Assessment (ESA). This investigation and the associated Phase II ESA were performed for the following purposes.

- To evaluate if Recognized Environmental Conditions (RECs) identified by the Phase I ESA recently completed for the Subject Property by Federal Aviation Administration (FAA) have impacted soil, soil vapor or groundwater.
- To evaluate if nearby former Formerly Used Defense Sites (FUDS) operations have impacted the Subject Property.
- To obtain data needed to prepare a Response Action Plan (RAP) for the project, if needed.

### **Subject Property Setting and Background**

The Subject Property consists of portions of Parcel ID Numbers: 010-0148-00200 (4913 Airport Road), 010-0148-00080 (4550 Stebner Road), and 010-0148-00020 and is generally located north of the intersection of Airport and Stebner Roads in Duluth, St. Louis County, Minnesota at the Duluth International Airport. The portion of the Subject Property located at 4913 Airport Road is developed with a single-story, slab on grade building with a shop area that is currently occupied by Hermantown Hydraulics, a hydraulics repair company. The remainder of the Subject Property is vacant, grass-covered land or includes portions of Stebner Road. The Subject Property location is depicted on **Figure 1**.

The Duluth International Airport was dedicated in 1930 as the Williamson-Johnson Municipal Airport; it was later renamed the Duluth International Airport in 1963. Historically, the Duluth International Airport was jointly operated by the City of Duluth, the United States Air Force (USAF), and the Minnesota Air National Guard. The USAF ceased operations at the Duluth International Airport in 1982.

The Subject Property was undeveloped until the 1930s when a residential structure was visible on the aerial photographs. By the early 1950s, the USAF constructed the current Subject Property building, which was referred to as Building s100 and used as a flight simulator building (EMR, May 2004).

Nearby FUDS operations included the following:

- Building 306 is located northeast and adjoining the Subject Property and was identified as the B E Laboratory and fuel oil tank building in the 2004 Site Research Report prepared by EMR Inc. for the United States Army Corps of Engineers, the lead agency evaluating FUDS (EMR, May 2004). Details regarding laboratory operations or materials used were not provided, but the laboratory operations include two fuel oil tanks of unknown capacity and construction.
- Building 305 is located east of Subject Property and was referred to as the rocket check/assembly building. Specific operations in Building 305 are not known.
- The 2004 Site Research Report also indicated a former underground storage (UST) was located north of the Subject Property.
- Hangar 101, which is part of the Lot 3 FUDS Project Area, adjoins the Subject Property to the west. Hangar 101 was constructed in the early 1950s and was used by the USAF until the early 1980s for airplane maintenance. Little documentation was found regarding material handling or usage at Hangar 101, but suspected materials included solvents and new or used fuels and oils. The report indicates a fuel oil UST was removed in the vicinity and northwest of Hangar 101 and a petroleum release as well as chlorinated solvent impacts were detected. Additional investigation of Hangar 101 and surrounding areas to the west and north have been conducted since 2007 and have identified petroleum and solvent impacted groundwater and soil vapor on the western portion of the Hangar 101 site. Groundwater flow direction in the vicinity of Hangar 101 is to the west/northwest; however, groundwater flow on the western side of the Hangar 101 site is locally influenced by stormwater drains and has a stronger westerly flow direction.

The FUDS program has not conducted investigations at Building 305, Building 306 or the former UST located north of the Subject Property.

### Previous Environmental Investigations

**October 2019 Phase I ESA** - SEH conducted a Phase I ESA of the 100 Building located at 4905 Airport Road in Duluth, Minnesota on behalf of the Duluth Airport Authority in October 2019 (SEH, October 2019). At the time of the Phase I ESA, the 100 Building was occupied by Hermantown Hydraulics. According to the Phase I ESA, Hermantown Hydraulics had occupied the Subject Property since 2009. The Phase I ESA identified several closed leak sites or inactive Voluntary Investigation and Cleanup (VIC) Program sites as Historical Recognized Environmental Conditions (HRECs) for the Subject Property. Please note at the time of the 2019 Phase I ESA, information regarding the FUDS investigations was not available for review.

**January 2023 Phase I ESA** - Booz Allen Hamilton conducted a Phase I ESA of the Subject Property in January 2023 on behalf of the FAA (Booz Allen Hamilton, January 2023). The Phase I ESA indicates the far western portion of Subject Property was initially developed by at least 1939 through the early 1950s with a residence, which was removed as the Duluth Air Force Base was developed. The current building was constructed by at least 1961 and is currently occupied by Hermantown Hydraulics. During the site reconnaissance, multiple buckets and drums of oils and hydraulic fluid were observed in the shop area. Petroleum staining was observed on the concrete floor near the oil and hydraulic fluid and was observed to be wicking into the foundation.

The Phase I ESA identified the following RECs for the Subject Property including:

- *Based on the age of the facility and operations observed during the site reconnaissance, this staining and potential impact to soils below the building is believed to present a Recognized Environmental Condition (REC) for the subject property.*

- *Based on its current regulatory status as an active remediation site, the former U.S. AFB Duluth is believed to present a REC for the subject property.*

The Phase I ESA identified two adjoining properties with closed regulatory statuses, Duluth International Airport – Site #102 and Duluth International Airport – Block 5, as HRECs.

**April 2023 Phase II ESA** – SEH conducted a Phase II ESA of the Subject Property in April 2023 on behalf of the Duluth Airport Authority. As part of the Phase II ESA, SEH advanced eight, exterior soil borings and two hand augers within the Subject Property building to collect soil and groundwater samples. Four sub-slab soil vapor pins were also installed through the building floor slab to collect soil vapor samples.

Fill soils were encountered from the ground surface to depths ranging from 2 to 5 feet and generally consisted of silty sand with gravel, clayey sand with gravel, and silt. Groundwater was encountered in five of the eight soil borings at depths ranging from 8.5 to 9.67 feet below ground surface (bgs).

Indications of contamination, including photoionization detector (PID) readings greater than background, were not observed in the soil and groundwater samples. A slightly elevated PID reading (i.e., 8.6 parts per million [ppm]) was recorded in soil vapor sample SSV-03, which was located in the shop area of the Subject Property Building. Concentrations of volatile organic compounds (VOCs) detected in the soil vapor sample collected at this location did not exceed 33 times (33X) the Commercial/Industrial Intrusion Screening Values (ISVs) – the concentration at which vapor mitigation would be needed for the proposed project; however, the concentration of tetrachloroethene detected in SSV-03 exceeded 33 times the Residential ISV.

Based on the analytical testing results, diesel range organic- (DRO-) and polynuclear aromatic hydrocarbon- (PAH-) impacted soil was identified below the building floor slab in the shop area. Impacted soil relative to regulatory criteria was not identified outside of the building footprint at the Subject Property.

DRO and trichloroethene were detected in the groundwater sample collected from B-01W (9.67) on the north-central portion of the Subject Property, cross-gradient to the Subject Property building, at concentrations exceeding drinking water criteria.

No exceedances relative to 33X the Commercial/Industrial ISVs were detected in sub-slab vapor samples.

### Scope of Work

Per Minnesota Pollution Control Agency (MPCA) Vapor Investigation and Mitigation Agency Best Management Practices (BMPs), two, temporally spaced soil vapor sampling rounds were conducted at the Subject Property to assess vapor intrusion risk and if vapor mitigation is necessary (MPCA, April 2020). The heating season round of sub-slab soil vapor sampling was conducted on March 7, 2023 as part of the Phase II ESA. The non-heating season round was conducted on April 26, 2023, the results of which are discussed below.

As part of the non-heating season round, four sub-slab soil vapor samples were collected within the building on the Subject Property. These samples were collected at the same locations as the previous round of sub-slab soil vapor samples (see **Figure 2**).

Sub-slab soil vapor samples were collected from Cox-Colvin vapor pins, which were installed through the concrete floor slab of the Subject Property building. Each vapor pin was equipped with a self-sealing

silicone sleeve. The number of soil vapor samples collected followed MPCA Best Management Practices regarding the recommended samples for a building measuring 2,501 to 5,000 square feet.

Using a section of PVC pipe and non-VOC containing putty, a water dam was constructed around the vapor pins to evaluate potential short-circuiting/leakage between the sub-slab and ambient air. The water dam was filled with distilled water and water levels were monitored during shut-in testing, sample train purging and sample collection. If water levels dropped, the water dam was checked, and if required, the vapor pin was removed and re-installed.

To collect the samples, a sampling train was constructed with new, inert materials. A shut-in test was then performed to detect leaks in the connections in the sampling train (i.e., sample tubing, valves and moisture filter). To conduct the shut-in test, the valve leading to the sampling pin was closed, and air was drawn out of the sampling train until a vacuum of about 25 inches of mercury was read on the canister gauge. The gauge was then monitored for a minimum of 60 seconds to ensure pressure in sampling train remains consistent. If pressure was lost, fittings were checked and re-established before performing an additional shut-in test.

A minimum of two air volumes was evacuated from the sampling pin and tubing prior to sampling. Each of the soil vapor samples were collected using a batch-certified, 1-liter air sampling canister equipped with a valve and a 200 milliliter per minute flow controller with tubing assembly. To collect the sample, the valve on the canister was opened. The initial vacuum reading, as well as the initial time, were recorded in the field notes and on the chain-of-custody. The vacuum gauge was observed until it read approximately 5 inches of mercury, at which point the canister valve was closed and the time and final vacuum reading were recorded in the field notes and on the chain-of-custody. After the canister valve was closed, a PID with a 10.6 electron volt lamp was connected to the tubing and organic measurements were recorded for about 1 minute. Sub-slab soil vapor sampling forms are provided in **Attachment 1**.

The soil vapor samples were then transported to the laboratory with proper chain-of-custody documentation.

### Sampling Results

Following sample collection, PID headspace readings less than 1.9 ppm were measured.

Given that the proposed building will be constructed with a competent concrete floor and will be used for commercial use, soil vapor sample results were compared to 33X the Commercial/Industrial ISVs.

The ISVs were developed by the MPCA in coordination with the Minnesota Department of Health (MDH) to be used as screening values in evaluating risks posed by the volatile compounds in indoor air. The potential for indoor air to be impacted by soil vapor intrusion can also be assessed using the ISVs. Per MPCA guidance, soil vapor results should be compared to 33X the ISVs to assess vapor intrusion risk when a competent floor is present. Soil vapor concentrations greater than 33x the ISV indicate a higher potential for risk associated with vapor intrusion, and a Site with contaminants greater than 33x the ISV could require mitigation of soil vapor to limit the potential for vapors to enter the building. For certain compounds, the MPCA has also established Expedited ISVs (EISVs), and in the event contaminant concentrations exceed 33x the EISV or in the event concentrations of trichloroethene exceed 33x the ISV and a pregnant woman is present, expedited action (i.e., within 30 days of receipt of laboratory data) may be necessary.

The analytical results for the non-heating season and heating season are summarized on **Table 1**. Laboratory analytical reports are provided in **Attachment B**.

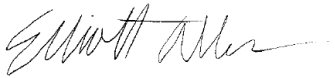
During the non-heating round of sampling, VOCs were not detected at concentrations exceeding 33X the Commercial/Industrial ISVs.

### Conclusions and Recommendations

Based on the analytical testing results from two rounds of sampling conducted during the heating and non-heating seasons, VOCs are not present in soil vapor at concentrations exceeding 33X the Commercial/Industrial ISVs below the existing building at the Subject Property, the footprint of which generally corresponds to the proposed air traffic control tower. Therefore, installation of a sub-slab vapor mitigation system below the proposed Subject Property building is not recommended. However, in the event, the size of the proposed building exceeds 5,000 square feet or the location of the proposed building changes, additional soil vapor sampling may be necessary to evaluate the vapor intrusion pathway.

Please feel free to contact us if you have any questions or comments.

Sincerely,



Elliott Allen, GIT (MN)  
Graduate Scientist  
E: eallen@sehinc.com  
P: 218.249.1556



Jennifer Force, PG (MN)  
Senior Scientist II  
E: jforce@sehinc.com  
P: 612.839.2430

Attachments:      Figures 1 and 2  
                          Table 1  
                          Attachment 1 – Sub-Slab Soil Vapor Sampling Forms  
                          Attachment 2 - Laboratory Analytical Reports

s:\ko\m\mcto0\146036\3-env-stdy-regs\30-env-doc\rsf vapor\report\2022 swlrt omf vapor investigation\_mcto0\_146036.docx

**References Not Attached**

Booz Allen Hamilton, January 2023, Phase I Environmental Site Assessment, Duluth International Airport (DLH) Airport Traffic Control Tower (ATCT), Site 6, Duluth, Minnesota

EMR, Inc. (EMR), May 2004, *Duluth International Airport, Site Research Report, FUDS E05MN0033, DACA45-03-0018, Duluth, Minnesota*

Minnesota Pollution Control Agency (MPCA), April 2020, *Vapor Intrusion and Mitigation Decision Best Management Practices*

MPCA, January 2021, *Intrusion Screening Values Technical Support Document*, Guidance Document c-rem3-12, [Intrusion Screening Values Technical Support Document - January 2021 \(state.mn.us\)](https://www.state.mn.us/mPCA/air/Intrusion%20Screening%20Values%20Technical%20Support%20Document%20-%20January%202021.pdf)

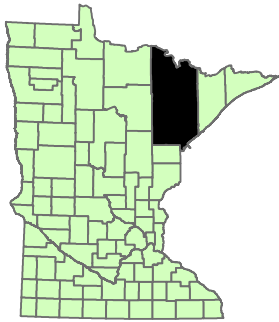
MPCA January 2021 (a), *Intrusion Screening Values for Vapor Intrusion Risk Evaluation*, Guidance Document aq1-36, [aq1-36.xlsx \(live.com\)](https://www.mn.gov/Portals/0/air/aq1-36.xlsx)

Short Elliott Hendrickson Inc. (SEH), October 2019, *Phase I Environmental Site Assessment, 100 Building, 4905 Airport Road, Duluth, Minnesota, SEH Project No. DULAI 150733*

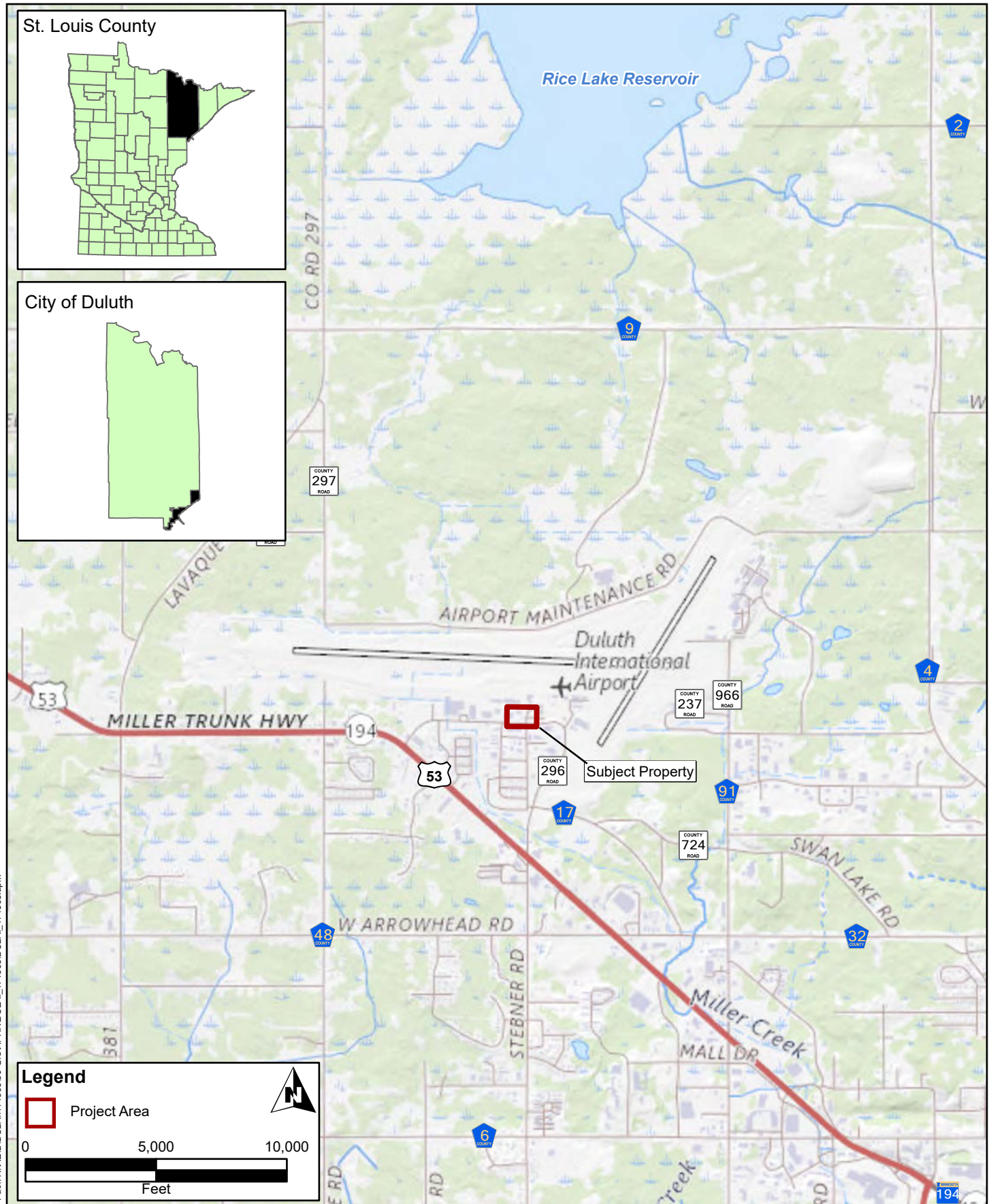
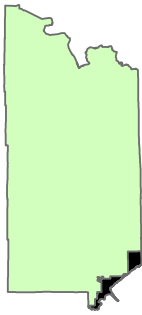
SEH, April 2023, *Phase II Environmental Site Assessment, Site 6 – Proposed Air Traffic Control Tower, Duluth, Minnesota, SEH Project No. DULAI 171568*



St. Louis County

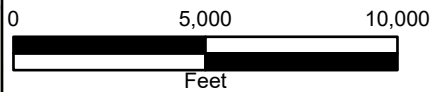


City of Duluth



**Legend**

 Project Area



Path: X:\AIED\DULAI171568\99-GIS\APRX\DULAI\_171568.aprx



3535 VADNAIS CENTER DR.  
ST. PAUL, MN 55110  
PHONE: (651) 490-2000  
FAX: (888) 908-8166  
TF: (800) 325-2055  
www.sehinc.com

Project: DULAI 171568  
Print Date: 3/22/2023

User Name: rhawkins  
Projection: UTM NAD 83 Zone 15N  
Source: ESRI, MnDOT, SEH Digi,  
St. Louis County

**Subject Property Location**  
Phase II Environmental Site Assessment  
Site 6 - Proposed Air Traffic Control Tower  
Duluth, Minnesota

Figure  
1

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.





Path: X:\AE\171568\99-9\SAPR\X\DULA1 171568.aprx

**Legend**

Exterior Sampling Locations:

- ✕ Boring Location
- Building Layout

Interior Sampling Locations:

- ✕ Hand Auger Location
- Subject Property
- ▲ Sub-Slab Soil Vapor Probe
- County Parcel Boundaries

0      60      120  
 Feet

N

3535 VADNAIS CENTER DR.  
 ST. PAUL, MN 55110  
 PHONE: (651) 490-2000  
 FAX: (888) 908-8166  
 TF: (800) 325-2055  
 www.sehinc.com

Project: DULA1 171568  
 Print Date: 4/5/2023

User Name: rhawkins  
 Projection: UTM NAD 83 Zone 15N  
 Source: ESRI, MnDOT, SEH Digi,  
 St. Louis County

## Sample Locations

### Phase II Drilling Investigation

### Site 6 - Proposed Air Traffic Control Tower

### Duluth, Minnesota

Figure  
2

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**Table 1**  
**Soil Vapor Analytical Results**  
Phase II ESA  
Proposed Air Traffic Control Tower - Site 6  
Duluth, Minnesota

Field Sample ID	Units	Commercial Industrial 33x ISVs	Commercial Industrial 33x EISVs	SSV-01	SSV-01	SSV-02	SSV-02	SSV-03	SSV-03	SSV-04	SSV-04
Laboratory ID				200-67180-1	200-67988-1	200-67180-2	200-67988-2	200-67180-3	200-67988-3	200-67180-4	200-67988-4
Sample Date				3/7/2023	4/26/2023	3/7/2023	4/26/2023	3/7/2023	4/26/2023	3/7/2023	4/26/2023
<b>VOCs (Air - GC/MS VOA)</b>											
1,2,4-Trimethylbenzene	ug/m3	7000	21000	4.5 J,B	<9.8	<9.8	<9.8	<9.8	6 J	<9.8	<9.8
1,3-Butadiene	ug/m3	90	700	<4.4	<4.4	<4.4	1.1 J	<4.4	2.6 J	<4.4	<4.4
2-Butanone	ug/m3	370000	1100000	<15	<15	<15	<15	<15	18	<15	62
4-Methyl-2-pentanone	ug/m3	370000	1100000	<20	<20	<20	<20	<20	11 J	<20	7.9 J
Acetone	ug/m3	3700000	11000000	140	250	170	310	160	1100 E	340	1200 E
Benzene	ug/m3	370	1100	2.8 J,B	3.5 J	4.8 J,B	6.2 J	1.9 J,B	3.3 J	1.8 J,B	4.4 J
Cyclohexane	ug/m3	700000	2100000	15 B	<6.9	4.5 J,B	<6.9	230 B	16	13 B	2.7 J
Ethyl alcohol (Ethanol)	ug/m3	-	-	84 J	1400	93	1300	80 J	690	63 J	6500 E
Ethylbenzene	ug/m3	1300	13000	10 B	<8.7	4.8 J,B	12	3 J,B	8.7	2.9 J,B	5.2 J
Hexane	ug/m3	83000	250000	8 J	7.4 J	4.8 J	3.9 J	110	15 J	7.1 J	7 J
Isopropyl alcohol	ug/m3	-	-	68 J	56 J	43 J	<120	1900 E	<120	110 J	510
m&p-Xylene	ug/m3	12000	37000	15 J,B	6.4 J	14 J,B	24	11 J,B	20 J	10 J,B	13 J
Methylene chloride	ug/m3	70000	210000	<17	7.2 J	<17	8 J	<17	8.2 J	<17	6.6 J
Naphthalene	ug/m3	1100	3200	29	<26	<26	<26	<26	<26	<26	<26
n-Heptane	ug/m3	47000	140000	91 B	9	24 B	8.3	1400 B	130	81 B	31
o-Xylene	ug/m3	12000	37000	7 J,B	2.5 J	5.5 J,B	6.7 J	4.6 J,B	6.9 J	4.1 J,B	4.1 J
Tetrachloroethene	ug/m3	1100	5300	43 B	31	17 B	76	98 B	290	290 B	410
Toluene	ug/m3	470000	1400000	37 B	65	26 B	100	21 B	650	14 B	850
Trichloroethene	ug/m3	230	700	<11	<11	<11	4.7 J	<11	<11	<11	<11
Trichlorofluoromethane	ug/m3	120000	370000	8 J,B	<11	<11	<11	<11	<11	<11	<11

Notes:

For a full list of acronyms, see the table glossary

B - Compound was found in the blank and sample.

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

E - Result exceeded calibration range.

## Abbreviations and Descriptions

### Abbreviations:

BaP - Benzo(a)pyrene equivalent  
 BRL - No detections above laboratory reporting limits  
 BTEX - Benzene, toluene, ethylbenzene, and xylenes  
 DRO - Diesel Range Organics  
 EOB - End of Boring  
 EPA - Environmental Protection Agency  
 ft bgs - feet below ground surface  
 GW - groundwater  
 GP - GeoProbe boring  
 GPL - General Permit Limits  
 GRO - Gasoline Range Organics  
 HBG - Health Based Guidance  
 MDA - Minnesota Department of Agriculture  
 MDH - Minnesota Department of Health  
 SS - Surface Sample  
 SVOC - Semi-Volatile Organic Compounds  
 MPCA - Minnesota Pollution Control Agency  
 mg/kg - milligrams per kilogram  
 ug/L - micrograms per liter  
 <x - indicates analyte concentration not detected above the laboratory reporting limit

MCL - Maximum Contaminant Level  
 NC - Non Carcinogenic  
 NM - analysis not performed  
 NPDES - National Pollutant Discharge Elimination System  
 PAH - Polycyclic Aromatic Hydrocarbon  
 PCB - Polychlorinated biphenyl  
 PID - Photoionization Detector  
 ppm - parts per million  
 RCRA - Resource Conservation and Recovery Act  
 SIM - Selected Ion Monitoring  
 SLV - MPCA Screening Soil Leaching Values  
 SP - State Project  
 SRV - MPCA Soil Reference Values  
 SVOC - Semi Volatile Organic Compound  
 TCLP - Toxicity Characteristic Leaching Procedure  
 TO - Geotechnical boring  
 TP - Test Pit  
 UFC - MPCA Unregulated Fill Criteria  
 UTM - Universal Transverse Mercator  
 VOC - Volatile Organic Compounds

### Lab Report Qualifiers:

Exceeds DRO/GRO MPCA UFC	DRO/GRO Exceeds MPCA UFC
Exceeds 2013 Screening SLV	Screening SLV - MPCA Screening Soil Leaching Values
Exceeds Residential/Recreational SRV	Minnesota Pollution Control Agency (MPCA) Soil Reference Values for Residential/Recreational properties
Exceeds Commercial/Industrial SRV	MPCA Soil Reference Values for Commercial/Industrial properties
NPDES Discharge General Permit Limits	NPDES Discharge General Permit Limits MNG790000 (surface waters designated as drinking water)
Exceeds 2023 MDH HBG	MDH HBG - Minnesota Department of Health (MDH) Health Based Guidance (HBGs) for drinking water
Exceeds EPA MCLs	EPA MCLs - Environmental Protection Agency (EPA) Maximum Concentration Levels (MCLs) for drinking water
Residential 33X ISVs	Residential 33x Intrusion Screening Values (MPCA)
Residential 33X EISVs	Residential 33x Expedited Intrusion Screening Values (MPCA)
Commercial Industrial 33x ISVs	Commercial/Industrial 33x Intrusion Screening Values (MPCA)
Commercial Industrial 33x EISVs	Commercial/Industrial 33x Expedited Intrusion Screening Values (MPCA)

### Notes:

Sample ID is listed as: investigation type - identification number - depth  
 All depths are reported in feet below ground surface (bgs) and listed after the boring identification number

### Soil analytical methods include:

Diesel Range Organics by Wisconsin Method DRO  
 DRO Silica Gel Cleanup by WIDRO GCS Silica Gel  
 Gasoline Range Organics by Wisconsin Method GRO  
 Volatile Organic Compounds (VOCs) by EPA Method 8260C  
 Low-level VOCs by EPA Method 8260D  
 Mercury by EPA Method 7471B  
 Polychlorinated Biphenyls (PCBs) by EPA Method 8082A  
 MDA List 1 and 2 Pesticides by EPA Method 8270D  
 Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E by SIM  
 Resource Conservation and Recovery Act (RCRA) 8 Metals by EPA Method 7471B/6020B  
 Nitrate/Nitrite by EPA Method E353.2  
 Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270E  
 TCLP Lead by 6010D  
 Total Kjeldahl Nitrogen by EPA Method A4500-NH3 G-11  
 Minnesota Department of Agriculture (MDA) List 1 Pesticides (EPA Method 8270D)

### Groundwater analytical methods include:

DRO by Wisconsin Method DRO  
 DRO Silica Gel Cleanup by WIDRO GCS Silica Gel  
 Gasoline Range Organics by Wisconsin Method GRO  
 GRO by Wisconsin Method GRO  
 VOC by EPA Method 8260C  
 Low-level VOCs by EPA Method 8260D  
 SVOCs by EPA Method 8270E  
 PCBs by EPA Method 8082A  
 RCRA 8 Metals by EPA Method 7471/6010B (field filtered)  
 Mercury by EPA Method 7470A  
 MDA List 1 Pesticides by EPA Method 8270D

### Soil Vapor analytical methods include:

VOCs by TO-15

Sub-Slab Soil Vapor Sampling Form

Sample ID: SSV-01 Project Name: Site 6 ATCT Project Number: Dw/ai 171568

SEH Staff On Site: Ellen Allen Project Manager: Jen Forca Date: 4/26/23

Installation

Temporary:  Permanent:

Concrete thickness: \_\_\_\_\_

Water Dam Test Passed?  Shut In Test Passed?

**Purging Guide**

To find the volume of the sample train assembly, multiply the length of the tubing by the volume per foot shown in the table below. The most common tubing inner diameter is 3/16".

Tubing Diam. (inch)	1/16	1/8	3/16	1/4	3/8
Tubing Volume (mL/foot)	0.56	2.22	5.58	9.65	14.84

Example for a 1.5' Sample Train Assembly: 1.5 ft x 5.58 mL/ft = 8.37 mL.  
Total volume to purge: 8.37 mL x 2 = 16.74 mL.

**Purging**

Purged Sample Train?

Purged Downhole?

Total Volume purged: 16.74 mL

Sample ID	Can ID	Flow Controller ID
<u>SSV-01</u>	<u>4855</u>	<u>6290</u>

Pressure Start	Pressure End	Time Start	Time End	PID
<u>-27</u>	<u>-3</u>	<u>1006</u>	<u>1011</u>	<u>0.4</u>

Can Tag Filled Out?

Borehole Patched?

Patched with: grout

Notes: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Map of Vapor Pin Location (draw room and show pin location)**

See previous location

Sub-Slab Soil Vapor Sampling Form

Sample ID: SSV-02 Project Name: AT&T Site 6 Project Number: Dulais 171568  
 SEH Staff On Site: Elliot Allen Project Manager: Sen force Date: 4/26/23

Installation    
 Temporary:  Permanent:   
 Concrete thickness: \_\_\_\_\_

Water Dam Test Passed?  Shut In Test Passed?

**Purging Guide**

To find the volume of the sample train assembly, multiply the length of the tubing by the volume per foot shown in the table below. The most common tubing inner diameter is 3/16".

Tubing Diam. (inch)	1/16	1/8	3/16	1/4	3/8
Tubing Volume (mL/foot)	0.56	2.22	5.58	9.65	14.84

**Example for a 1.5' Sample Train Assembly:** 1.5 ft x 5.58 mL/ft = 8.37 mL.  
 Total volume to purge: 8.37 mL x 2 = 16.74 mL.

**Purging**

Purged Sample Train?   
 Purged Downhole?   
 Total Volume purged: 16.74 mL

Sample ID	Can ID	Flow Controller ID
<u>SSV-02</u>	<u>6980</u>	<u>9048</u>

Pressure Start	Pressure End	Time Start	Time End	PID
<u>-29</u>	<u>-4</u>	<u>1034</u>	<u>1039</u>	<u>0.8</u>

Can Tag Filled Out?   
 Borehole Patched?   
 Patched with: grout  
 Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Map of Vapor Pin Location (draw room and show pin location)**

see previous location

Sub-Slab Soil Vapor Sampling Form

Sample ID: SSV-03 Project Name: ATCT Site 6 Project Number: Dulai 171568

SEH Staff On Site: Elliot Alyn Project Manager: jen force Date: 9/26/23

Installation    
 Temporary: Permanent:  
 Concrete thickness: \_\_\_\_\_

Water Dam Test Passed?  Shut In Test Passed?

Purging  
 Purged Sample Train?   
 Purged Downhole?   
 Total Volume purged: 16.74 mL

**Purging Guide**

To find the volume of the sample train assembly, multiply the length of the tubing by the volume per foot shown in the table below. The most common tubing inner diameter is 3/16".

Tubing Diam. (inch)	1/16	1/8	3/16	1/4	3/8
Tubing Volume (mL/foot)	0.56	2.22	5.58	9.65	14.84

**Example for a 1.5' Sample Train Assembly:** 1.5 ft x 5.58 mL/ft = 8.37 mL.  
 Total volume to purge: 8.37 mL x 2 = 16.74 mL.

Sample ID	Can ID	Flow Controller ID
<u>SSV-03</u>	<u>6278</u>	<u>4683</u>

Pressure Start	Pressure End	Time Start	Time End	PID
<u>-28</u>	<u>-3</u>	<u>1051</u>	<u>1056</u>	<u>1.9</u>

Can Tag Filled Out?   
 Borehole Patched?   
 Patched with: grout  
 Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Map of Vapor Pin Location (draw room and show pin location)

see previous location

**Sub-Slab Soil Vapor Sampling Form**

Sample ID: SSV-04 Project Name: ATCT site @ Project Number: Dulai 171568

SEH Staff On Site: Elliott Allen Project Manager: Jim force Date: 4/26/23

Installation

Temporary:  Permanent:

Concrete thickness: \_\_\_\_\_

Water Dam Test Passed?  Shut In Test Passed?

**Purging**

Purged Sample Train?

Purged Downhole?

Total Volume purged: 16.74 mL

**Purging Guide**

To find the volume of the sample train assembly, multiply the length of the tubing by the volume per foot shown in the table below. The most common tubing inner diameter is 3/16".

Tubing Diam. (inch)	1/16	1/8	3/16	1/4	3/8
Tubing Volume (mL/foot)	0.56	2.22	5.58	9.65	14.84

**Example for a 1.5' Sample Train Assembly:** 1.5 ft x 5.58 mL/ft = 8.37 mL.  
 Total volume to purge: 8.37 mL x 2 = 16.74 mL.

Sample ID	Can ID	Flow Controller ID
<u>SSV-04</u>	<u>4655</u>	<u>7686</u>

Pressure Start	Pressure End	Time Start	Time End	PID
<u>-30</u>	<u>-4</u>	<u>1104</u>	<u>1110</u>	<u>0.9</u>

Can Tag Filled Out?

Borehole Patched?

Patched with: grout

Notes: \_\_\_\_\_

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\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

**Map of Vapor Pin Location (draw room and show pin location)**

See previous location

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Jennifer Force  
Short Elliott Hendrickson, Inc. dba SEH  
3535 Vadnais Center Drive  
St. Paul, Minnesota 55110

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## JOB DESCRIPTION

ATCT Site G  
SDG NUMBER 200-67988

## JOB NUMBER

200-67988-1

# Eurofins Burlington

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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## Authorization



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# Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

## Qualifiers

### Air - GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### Air - GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	This flag indicates the presumptive evidence of a compound.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

**Job ID: 200-67988-1**

**Laboratory: Eurofins Burlington**

**Narrative**

## CASE NARRATIVE

**Client: Short Elliott Hendrickson, Inc. dba SEH**

**Project: ATCT Site G**

**Report Number: 200-67988-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

### **RECEIPT**

The samples were received on 04/27/2023; the samples arrived in good condition.

### **VOLATILE ORGANIC COMPOUNDS**

Samples SSV-01, SSV-02, SSV-03 and SSV-04 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 05/03/2023.

Samples SSV-01[10X], SSV-02[10X], SSV-03[10X] and SSV-04[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Client Sample ID: SSV-01

## Lab Sample ID: 200-67988-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	760		50	26	ppb v/v	10		TO-15	Total/NA
Acetone	100		50	16	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	23	J	50	16	ppb v/v	10		TO-15	Total/NA
Methylene Chloride	2.1	J	5.0	1.8	ppb v/v	10		TO-15	Total/NA
n-Hexane	2.1	J	5.0	1.1	ppb v/v	10		TO-15	Total/NA
Benzene	1.1	J	2.0	0.44	ppb v/v	10		TO-15	Total/NA
n-Heptane	2.2		2.0	0.55	ppb v/v	10		TO-15	Total/NA
Toluene	17		2.0	0.42	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	4.6		2.0	0.21	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	1.5	J	5.0	0.95	ppb v/v	10		TO-15	Total/NA
Xylene, o-	0.57	J	2.0	0.52	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	1400		94	49	ug/m3	10		TO-15	Total/NA
Acetone	250		120	38	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	56	J	120	39	ug/m3	10		TO-15	Total/NA
Methylene Chloride	7.2	J	17	6.3	ug/m3	10		TO-15	Total/NA
n-Hexane	7.4	J	18	3.9	ug/m3	10		TO-15	Total/NA
Benzene	3.5	J	6.4	1.4	ug/m3	10		TO-15	Total/NA
n-Heptane	9.0		8.2	2.3	ug/m3	10		TO-15	Total/NA
Toluene	65		7.5	1.6	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	31		14	1.4	ug/m3	10		TO-15	Total/NA
m,p-Xylene	6.4	J	22	4.1	ug/m3	10		TO-15	Total/NA
Xylene, o-	2.5	J	8.7	2.3	ug/m3	10		TO-15	Total/NA

## Client Sample ID: SSV-02

## Lab Sample ID: 200-67988-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	0.51	J	2.0	0.39	ppb v/v	10		TO-15	Total/NA
Ethanol	670		50	26	ppb v/v	10		TO-15	Total/NA
Acetone	130		50	16	ppb v/v	10		TO-15	Total/NA
Methylene Chloride	2.3	J	5.0	1.8	ppb v/v	10		TO-15	Total/NA
n-Hexane	1.1	J	5.0	1.1	ppb v/v	10		TO-15	Total/NA
Benzene	1.9	J	2.0	0.44	ppb v/v	10		TO-15	Total/NA
n-Heptane	2.0		2.0	0.55	ppb v/v	10		TO-15	Total/NA
Trichloroethene	0.88	J	2.0	0.25	ppb v/v	10		TO-15	Total/NA
Toluene	27		2.0	0.42	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	11		2.0	0.21	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	2.7		2.0	0.52	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	5.5		5.0	0.95	ppb v/v	10		TO-15	Total/NA
Xylene, o-	1.5	J	2.0	0.52	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	1.1	J	4.4	0.86	ug/m3	10		TO-15	Total/NA
Ethanol	1300		94	49	ug/m3	10		TO-15	Total/NA
Acetone	310		120	38	ug/m3	10		TO-15	Total/NA
Methylene Chloride	8.0	J	17	6.3	ug/m3	10		TO-15	Total/NA
n-Hexane	3.9	J	18	3.9	ug/m3	10		TO-15	Total/NA
Benzene	6.2	J	6.4	1.4	ug/m3	10		TO-15	Total/NA
n-Heptane	8.3		8.2	2.3	ug/m3	10		TO-15	Total/NA
Trichloroethene	4.7	J	11	1.3	ug/m3	10		TO-15	Total/NA
Toluene	100		7.5	1.6	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	76		14	1.4	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

## Client Sample ID: SSV-02 (Continued)

## Lab Sample ID: 200-67988-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	12		8.7	2.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene	24		22	4.1	ug/m3	10		TO-15	Total/NA
Xylene, o-	6.7	J	8.7	2.3	ug/m3	10		TO-15	Total/NA

## Client Sample ID: SSV-03

## Lab Sample ID: 200-67988-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	1.2	J	2.0	0.39	ppb v/v	10		TO-15	Total/NA
Ethanol	360		50	26	ppb v/v	10		TO-15	Total/NA
Acetone	460	E	50	16	ppb v/v	10		TO-15	Total/NA
Methylene Chloride	2.4	J	5.0	1.8	ppb v/v	10		TO-15	Total/NA
n-Hexane	4.4	J	5.0	1.1	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	6.2		5.0	4.9	ppb v/v	10		TO-15	Total/NA
Cyclohexane	4.5		2.0	0.58	ppb v/v	10		TO-15	Total/NA
Benzene	1.0	J	2.0	0.44	ppb v/v	10		TO-15	Total/NA
n-Heptane	32		2.0	0.55	ppb v/v	10		TO-15	Total/NA
Methyl isobutyl ketone	2.6	J	5.0	1.3	ppb v/v	10		TO-15	Total/NA
Toluene	170		2.0	0.42	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	42		2.0	0.21	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	2.0		2.0	0.52	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	4.7	J	5.0	0.95	ppb v/v	10		TO-15	Total/NA
Xylene, o-	1.6	J	2.0	0.52	ppb v/v	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.2	J	2.0	0.80	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	2.6	J	4.4	0.86	ug/m3	10		TO-15	Total/NA
Ethanol	690		94	49	ug/m3	10		TO-15	Total/NA
Acetone	1100	E	120	38	ug/m3	10		TO-15	Total/NA
Methylene Chloride	8.2	J	17	6.3	ug/m3	10		TO-15	Total/NA
n-Hexane	15	J	18	3.9	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	18		15	14	ug/m3	10		TO-15	Total/NA
Cyclohexane	16		6.9	2.0	ug/m3	10		TO-15	Total/NA
Benzene	3.3	J	6.4	1.4	ug/m3	10		TO-15	Total/NA
n-Heptane	130		8.2	2.3	ug/m3	10		TO-15	Total/NA
Methyl isobutyl ketone	11	J	20	5.3	ug/m3	10		TO-15	Total/NA
Toluene	650		7.5	1.6	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	290		14	1.4	ug/m3	10		TO-15	Total/NA
Ethylbenzene	8.7		8.7	2.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene	20	J	22	4.1	ug/m3	10		TO-15	Total/NA
Xylene, o-	6.9	J	8.7	2.3	ug/m3	10		TO-15	Total/NA
1,2,4-Trimethylbenzene	6.0	J	9.8	3.9	ug/m3	10		TO-15	Total/NA

## Client Sample ID: SSV-04

## Lab Sample ID: 200-67988-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	3400	E	50	26	ppb v/v	10		TO-15	Total/NA
Acetone	520	E	50	16	ppb v/v	10		TO-15	Total/NA
Isopropyl alcohol	210		50	16	ppb v/v	10		TO-15	Total/NA
Methylene Chloride	1.9	J	5.0	1.8	ppb v/v	10		TO-15	Total/NA
n-Hexane	2.0	J	5.0	1.1	ppb v/v	10		TO-15	Total/NA
Methyl Ethyl Ketone	21		5.0	4.9	ppb v/v	10		TO-15	Total/NA
Cyclohexane	0.80	J	2.0	0.58	ppb v/v	10		TO-15	Total/NA
Benzene	1.4	J	2.0	0.44	ppb v/v	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Burlington

# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

**Client Sample ID: SSV-04 (Continued)**

**Lab Sample ID: 200-67988-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Heptane	7.7		2.0	0.55	ppb v/v	10		TO-15	Total/NA
Methyl isobutyl ketone	1.9	J	5.0	1.3	ppb v/v	10		TO-15	Total/NA
Toluene	230		2.0	0.42	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	60		2.0	0.21	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	1.2	J	2.0	0.52	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	3.0	J	5.0	0.95	ppb v/v	10		TO-15	Total/NA
Xylene, o-	0.94	J	2.0	0.52	ppb v/v	10		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethanol	6500	E	94	49	ug/m3	10		TO-15	Total/NA
Acetone	1200	E	120	38	ug/m3	10		TO-15	Total/NA
Isopropyl alcohol	510		120	39	ug/m3	10		TO-15	Total/NA
Methylene Chloride	6.6	J	17	6.3	ug/m3	10		TO-15	Total/NA
n-Hexane	7.0	J	18	3.9	ug/m3	10		TO-15	Total/NA
Methyl Ethyl Ketone	62		15	14	ug/m3	10		TO-15	Total/NA
Cyclohexane	2.7	J	6.9	2.0	ug/m3	10		TO-15	Total/NA
Benzene	4.4	J	6.4	1.4	ug/m3	10		TO-15	Total/NA
n-Heptane	31		8.2	2.3	ug/m3	10		TO-15	Total/NA
Methyl isobutyl ketone	7.9	J	20	5.3	ug/m3	10		TO-15	Total/NA
Toluene	850		7.5	1.6	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	410		14	1.4	ug/m3	10		TO-15	Total/NA
Ethylbenzene	5.2	J	8.7	2.3	ug/m3	10		TO-15	Total/NA
m,p-Xylene	13	J	22	4.1	ug/m3	10		TO-15	Total/NA
Xylene, o-	4.1	J	8.7	2.3	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

**Client Sample ID: SSV-01**

**Lab Sample ID: 200-67988-1**

**Date Collected: 04/26/23 10:11**

**Matrix: Air**

**Date Received: 04/27/23 10:35**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	50	U	50	12	ppb v/v			05/03/23 13:17	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			05/03/23 13:17	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.48	ppb v/v			05/03/23 13:17	10
Chloromethane	5.0	U	5.0	1.5	ppb v/v			05/03/23 13:17	10
Vinyl chloride	2.0	U	2.0	0.21	ppb v/v			05/03/23 13:17	10
1,3-Butadiene	2.0	U	2.0	0.39	ppb v/v			05/03/23 13:17	10
Bromomethane	2.0	U	2.0	0.71	ppb v/v			05/03/23 13:17	10
Chloroethane	5.0	U	5.0	1.8	ppb v/v			05/03/23 13:17	10
Trichlorofluoromethane	2.0	U	2.0	0.50	ppb v/v			05/03/23 13:17	10
<b>Ethanol</b>	<b>760</b>		50	26	ppb v/v			05/03/23 13:17	10
Freon TF	2.0	U	2.0	0.53	ppb v/v			05/03/23 13:17	10
1,1-Dichloroethene	2.0	U	2.0	0.26	ppb v/v			05/03/23 13:17	10
<b>Acetone</b>	<b>100</b>		50	16	ppb v/v			05/03/23 13:17	10
<b>Isopropyl alcohol</b>	<b>23</b>	<b>J</b>	50	16	ppb v/v			05/03/23 13:17	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			05/03/23 13:17	10
<b>Methylene Chloride</b>	<b>2.1</b>	<b>J</b>	5.0	1.8	ppb v/v			05/03/23 13:17	10
Methyl tert-butyl ether	2.0	U	2.0	0.36	ppb v/v			05/03/23 13:17	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/03/23 13:17	10
<b>n-Hexane</b>	<b>2.1</b>	<b>J</b>	5.0	1.1	ppb v/v			05/03/23 13:17	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			05/03/23 13:17	10
Ethyl acetate	50	U	50	16	ppb v/v			05/03/23 13:17	10
Methyl Ethyl Ketone	5.0	U	5.0	4.9	ppb v/v			05/03/23 13:17	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.21	ppb v/v			05/03/23 13:17	10
Chloroform	2.0	U	2.0	0.41	ppb v/v			05/03/23 13:17	10
Tetrahydrofuran	50	U	50	13	ppb v/v			05/03/23 13:17	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			05/03/23 13:17	10
Cyclohexane	2.0	U	2.0	0.58	ppb v/v			05/03/23 13:17	10
Carbon tetrachloride	2.0	U	2.0	0.22	ppb v/v			05/03/23 13:17	10
<b>Benzene</b>	<b>1.1</b>	<b>J</b>	2.0	0.44	ppb v/v			05/03/23 13:17	10
1,2-Dichloroethane	2.0	U	2.0	0.93	ppb v/v			05/03/23 13:17	10
<b>n-Heptane</b>	<b>2.2</b>		2.0	0.55	ppb v/v			05/03/23 13:17	10
Trichloroethene	2.0	U	2.0	0.25	ppb v/v			05/03/23 13:17	10
1,2-Dichloropropane	2.0	U	2.0	0.94	ppb v/v			05/03/23 13:17	10
Bromodichloromethane	2.0	U	2.0	0.50	ppb v/v			05/03/23 13:17	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.45	ppb v/v			05/03/23 13:17	10
Methyl isobutyl ketone	5.0	U	5.0	1.3	ppb v/v			05/03/23 13:17	10
<b>Toluene</b>	<b>17</b>		2.0	0.42	ppb v/v			05/03/23 13:17	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.54	ppb v/v			05/03/23 13:17	10
1,1,2-Trichloroethane	2.0	U	2.0	0.74	ppb v/v			05/03/23 13:17	10
<b>Tetrachloroethene</b>	<b>4.6</b>		2.0	0.21	ppb v/v			05/03/23 13:17	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	1.5	ppb v/v			05/03/23 13:17	10
1,2-Dibromoethane	2.0	U	2.0	0.42	ppb v/v			05/03/23 13:17	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			05/03/23 13:17	10
Ethylbenzene	2.0	U	2.0	0.52	ppb v/v			05/03/23 13:17	10
<b>m,p-Xylene</b>	<b>1.5</b>	<b>J</b>	5.0	0.95	ppb v/v			05/03/23 13:17	10
<b>Xylene, o-</b>	<b>0.57</b>	<b>J</b>	2.0	0.52	ppb v/v			05/03/23 13:17	10
Styrene	2.0	U	2.0	0.59	ppb v/v			05/03/23 13:17	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			05/03/23 13:17	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

**Client Sample ID: SSV-01**

**Lab Sample ID: 200-67988-1**

**Date Collected: 04/26/23 10:11**

**Matrix: Air**

**Date Received: 04/27/23 10:35**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			05/03/23 13:17	10
4-Ethyltoluene	2.0	U	2.0	0.49	ppb v/v			05/03/23 13:17	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			05/03/23 13:17	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.80	ppb v/v			05/03/23 13:17	10
1,3-Dichlorobenzene	2.0	U	2.0	0.74	ppb v/v			05/03/23 13:17	10
1,4-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			05/03/23 13:17	10
Benzyl chloride	2.0	U	2.0	0.88	ppb v/v			05/03/23 13:17	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			05/03/23 13:17	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.3	ppb v/v			05/03/23 13:17	10
Hexachlorobutadiene	2.0	U	2.0	1.1	ppb v/v			05/03/23 13:17	10
Naphthalene	5.0	U	5.0	3.0	ppb v/v			05/03/23 13:17	10
Dibromochloromethane	2.0	U	2.0	0.63	ppb v/v			05/03/23 13:17	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	86	U	86	21	ug/m3			05/03/23 13:17	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			05/03/23 13:17	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.4	ug/m3			05/03/23 13:17	10
Chloromethane	10	U	10	3.1	ug/m3			05/03/23 13:17	10
Vinyl chloride	5.1	U	5.1	0.54	ug/m3			05/03/23 13:17	10
1,3-Butadiene	4.4	U	4.4	0.86	ug/m3			05/03/23 13:17	10
Bromomethane	7.8	U	7.8	2.8	ug/m3			05/03/23 13:17	10
Chloroethane	13	U	13	4.7	ug/m3			05/03/23 13:17	10
Trichlorofluoromethane	11	U	11	2.8	ug/m3			05/03/23 13:17	10
<b>Ethanol</b>	<b>1400</b>		94	49	ug/m3			05/03/23 13:17	10
Freon TF	15	U	15	4.1	ug/m3			05/03/23 13:17	10
1,1-Dichloroethene	7.9	U	7.9	1.0	ug/m3			05/03/23 13:17	10
<b>Acetone</b>	<b>250</b>		120	38	ug/m3			05/03/23 13:17	10
<b>Isopropyl alcohol</b>	<b>56 J</b>		120	39	ug/m3			05/03/23 13:17	10
Carbon disulfide	16	U	16	4.0	ug/m3			05/03/23 13:17	10
<b>Methylene Chloride</b>	<b>7.2 J</b>		17	6.3	ug/m3			05/03/23 13:17	10
Methyl tert-butyl ether	7.2	U	7.2	1.3	ug/m3			05/03/23 13:17	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/03/23 13:17	10
<b>n-Hexane</b>	<b>7.4 J</b>		18	3.9	ug/m3			05/03/23 13:17	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			05/03/23 13:17	10
Ethyl acetate	180	U	180	58	ug/m3			05/03/23 13:17	10
Methyl Ethyl Ketone	15	U	15	14	ug/m3			05/03/23 13:17	10
cis-1,2-Dichloroethene	7.9	U	7.9	0.83	ug/m3			05/03/23 13:17	10
Chloroform	9.8	U	9.8	2.0	ug/m3			05/03/23 13:17	10
Tetrahydrofuran	150	U	150	38	ug/m3			05/03/23 13:17	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			05/03/23 13:17	10
Cyclohexane	6.9	U	6.9	2.0	ug/m3			05/03/23 13:17	10
Carbon tetrachloride	13	U	13	1.4	ug/m3			05/03/23 13:17	10
<b>Benzene</b>	<b>3.5 J</b>		6.4	1.4	ug/m3			05/03/23 13:17	10
1,2-Dichloroethane	8.1	U	8.1	3.8	ug/m3			05/03/23 13:17	10
<b>n-Heptane</b>	<b>9.0</b>		8.2	2.3	ug/m3			05/03/23 13:17	10
Trichloroethene	11	U	11	1.3	ug/m3			05/03/23 13:17	10
1,2-Dichloropropane	9.2	U	9.2	4.3	ug/m3			05/03/23 13:17	10
Bromodichloromethane	13	U	13	3.4	ug/m3			05/03/23 13:17	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.0	ug/m3			05/03/23 13:17	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

**Client Sample ID: SSV-01**

**Lab Sample ID: 200-67988-1**

Date Collected: 04/26/23 10:11

Matrix: Air

Date Received: 04/27/23 10:35

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl isobutyl ketone	20	U	20	5.3	ug/m3			05/03/23 13:17	10
<b>Toluene</b>	<b>65</b>		7.5	1.6	ug/m3			05/03/23 13:17	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			05/03/23 13:17	10
1,1,2-Trichloroethane	11	U	11	4.0	ug/m3			05/03/23 13:17	10
<b>Tetrachloroethene</b>	<b>31</b>		14	1.4	ug/m3			05/03/23 13:17	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	6.1	ug/m3			05/03/23 13:17	10
1,2-Dibromoethane	15	U	15	3.2	ug/m3			05/03/23 13:17	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			05/03/23 13:17	10
Ethylbenzene	8.7	U	8.7	2.3	ug/m3			05/03/23 13:17	10
<b>m,p-Xylene</b>	<b>6.4 J</b>		22	4.1	ug/m3			05/03/23 13:17	10
<b>Xylene, o-</b>	<b>2.5 J</b>		8.7	2.3	ug/m3			05/03/23 13:17	10
Styrene	8.5	U	8.5	2.5	ug/m3			05/03/23 13:17	10
Bromoform	21	U	21	12	ug/m3			05/03/23 13:17	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			05/03/23 13:17	10
4-Ethyltoluene	9.8	U	9.8	2.4	ug/m3			05/03/23 13:17	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			05/03/23 13:17	10
1,2,4-Trimethylbenzene	9.8	U	9.8	3.9	ug/m3			05/03/23 13:17	10
1,3-Dichlorobenzene	12	U	12	4.4	ug/m3			05/03/23 13:17	10
1,4-Dichlorobenzene	12	U	12	5.4	ug/m3			05/03/23 13:17	10
Benzyl chloride	10	U	10	4.6	ug/m3			05/03/23 13:17	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			05/03/23 13:17	10
1,2,4-Trichlorobenzene	37	U	37	24	ug/m3			05/03/23 13:17	10
Hexachlorobutadiene	21	U	21	12	ug/m3			05/03/23 13:17	10
Naphthalene	26	U	26	16	ug/m3			05/03/23 13:17	10
Dibromochloromethane	17	U	17	5.4	ug/m3			05/03/23 13:17	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	16	J	ppb v/v		5.55	N/A		05/03/23 13:17	10
Pentane	45	J N	ppb v/v		7.17	109-66-0		05/03/23 13:17	10
Unknown	15	J	ppb v/v		9.25	N/A		05/03/23 13:17	10
1-Butanol	33	J N	ppb v/v		13.84	71-36-3		05/03/23 13:17	10
Pentane, 2,3,4-trimethyl-	14	J N	ppb v/v		15.18	565-75-3		05/03/23 13:17	10
Pentane, 2,3,3-trimethyl-	30	J N	ppb v/v		15.43	560-21-4		05/03/23 13:17	10
Unknown	11	J	ppb v/v		16.11	N/A		05/03/23 13:17	10
Octane	10	J N	ppb v/v		16.63	111-65-9		05/03/23 13:17	10
Unknown	420	J	ppb v/v		19.33	N/A		05/03/23 13:17	10

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67988-2**

Date Collected: 04/26/23 10:39

Matrix: Air

Date Received: 04/27/23 10:35

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	50	U	50	12	ppb v/v			05/03/23 14:59	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			05/03/23 14:59	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.48	ppb v/v			05/03/23 14:59	10
Chloromethane	5.0	U	5.0	1.5	ppb v/v			05/03/23 14:59	10
Vinyl chloride	2.0	U	2.0	0.21	ppb v/v			05/03/23 14:59	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67988-2**

Date Collected: 04/26/23 10:39

Matrix: Air

Date Received: 04/27/23 10:35

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,3-Butadiene</b>	<b>0.51</b>	<b>J</b>	2.0	0.39	ppb v/v			05/03/23 14:59	10
Bromomethane	2.0	U	2.0	0.71	ppb v/v			05/03/23 14:59	10
Chloroethane	5.0	U	5.0	1.8	ppb v/v			05/03/23 14:59	10
Trichlorofluoromethane	2.0	U	2.0	0.50	ppb v/v			05/03/23 14:59	10
<b>Ethanol</b>	<b>670</b>		50	26	ppb v/v			05/03/23 14:59	10
Freon TF	2.0	U	2.0	0.53	ppb v/v			05/03/23 14:59	10
1,1-Dichloroethene	2.0	U	2.0	0.26	ppb v/v			05/03/23 14:59	10
<b>Acetone</b>	<b>130</b>		50	16	ppb v/v			05/03/23 14:59	10
Isopropyl alcohol	50	U	50	16	ppb v/v			05/03/23 14:59	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			05/03/23 14:59	10
<b>Methylene Chloride</b>	<b>2.3</b>	<b>J</b>	5.0	1.8	ppb v/v			05/03/23 14:59	10
Methyl tert-butyl ether	2.0	U	2.0	0.36	ppb v/v			05/03/23 14:59	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/03/23 14:59	10
<b>n-Hexane</b>	<b>1.1</b>	<b>J</b>	5.0	1.1	ppb v/v			05/03/23 14:59	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			05/03/23 14:59	10
Ethyl acetate	50	U	50	16	ppb v/v			05/03/23 14:59	10
Methyl Ethyl Ketone	5.0	U	5.0	4.9	ppb v/v			05/03/23 14:59	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.21	ppb v/v			05/03/23 14:59	10
Chloroform	2.0	U	2.0	0.41	ppb v/v			05/03/23 14:59	10
Tetrahydrofuran	50	U	50	13	ppb v/v			05/03/23 14:59	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			05/03/23 14:59	10
Cyclohexane	2.0	U	2.0	0.58	ppb v/v			05/03/23 14:59	10
Carbon tetrachloride	2.0	U	2.0	0.22	ppb v/v			05/03/23 14:59	10
<b>Benzene</b>	<b>1.9</b>	<b>J</b>	2.0	0.44	ppb v/v			05/03/23 14:59	10
1,2-Dichloroethane	2.0	U	2.0	0.93	ppb v/v			05/03/23 14:59	10
<b>n-Heptane</b>	<b>2.0</b>		2.0	0.55	ppb v/v			05/03/23 14:59	10
<b>Trichloroethene</b>	<b>0.88</b>	<b>J</b>	2.0	0.25	ppb v/v			05/03/23 14:59	10
1,2-Dichloropropane	2.0	U	2.0	0.94	ppb v/v			05/03/23 14:59	10
Bromodichloromethane	2.0	U	2.0	0.50	ppb v/v			05/03/23 14:59	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.45	ppb v/v			05/03/23 14:59	10
Methyl isobutyl ketone	5.0	U	5.0	1.3	ppb v/v			05/03/23 14:59	10
<b>Toluene</b>	<b>27</b>		2.0	0.42	ppb v/v			05/03/23 14:59	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.54	ppb v/v			05/03/23 14:59	10
1,1,2-Trichloroethane	2.0	U	2.0	0.74	ppb v/v			05/03/23 14:59	10
<b>Tetrachloroethene</b>	<b>11</b>		2.0	0.21	ppb v/v			05/03/23 14:59	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	1.5	ppb v/v			05/03/23 14:59	10
1,2-Dibromoethane	2.0	U	2.0	0.42	ppb v/v			05/03/23 14:59	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			05/03/23 14:59	10
<b>Ethylbenzene</b>	<b>2.7</b>		2.0	0.52	ppb v/v			05/03/23 14:59	10
<b>m,p-Xylene</b>	<b>5.5</b>		5.0	0.95	ppb v/v			05/03/23 14:59	10
<b>Xylene, o-</b>	<b>1.5</b>	<b>J</b>	2.0	0.52	ppb v/v			05/03/23 14:59	10
Styrene	2.0	U	2.0	0.59	ppb v/v			05/03/23 14:59	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			05/03/23 14:59	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			05/03/23 14:59	10
4-Ethyltoluene	2.0	U	2.0	0.49	ppb v/v			05/03/23 14:59	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			05/03/23 14:59	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.80	ppb v/v			05/03/23 14:59	10
1,3-Dichlorobenzene	2.0	U	2.0	0.74	ppb v/v			05/03/23 14:59	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67988-2**

**Date Collected: 04/26/23 10:39**

**Matrix: Air**

**Date Received: 04/27/23 10:35**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			05/03/23 14:59	10
Benzyl chloride	2.0	U	2.0	0.88	ppb v/v			05/03/23 14:59	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			05/03/23 14:59	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.3	ppb v/v			05/03/23 14:59	10
Hexachlorobutadiene	2.0	U	2.0	1.1	ppb v/v			05/03/23 14:59	10
Naphthalene	5.0	U	5.0	3.0	ppb v/v			05/03/23 14:59	10
Dibromochloromethane	2.0	U	2.0	0.63	ppb v/v			05/03/23 14:59	10
<b>Analyte</b>	<b>Result</b>	<b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Propylene	86	U	86	21	ug/m3			05/03/23 14:59	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			05/03/23 14:59	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.4	ug/m3			05/03/23 14:59	10
Chloromethane	10	U	10	3.1	ug/m3			05/03/23 14:59	10
Vinyl chloride	5.1	U	5.1	0.54	ug/m3			05/03/23 14:59	10
<b>1,3-Butadiene</b>	<b>1.1</b>	<b>J</b>	4.4	0.86	ug/m3			05/03/23 14:59	10
Bromomethane	7.8	U	7.8	2.8	ug/m3			05/03/23 14:59	10
Chloroethane	13	U	13	4.7	ug/m3			05/03/23 14:59	10
Trichlorofluoromethane	11	U	11	2.8	ug/m3			05/03/23 14:59	10
<b>Ethanol</b>	<b>1300</b>		94	49	ug/m3			05/03/23 14:59	10
Freon TF	15	U	15	4.1	ug/m3			05/03/23 14:59	10
1,1-Dichloroethene	7.9	U	7.9	1.0	ug/m3			05/03/23 14:59	10
<b>Acetone</b>	<b>310</b>		120	38	ug/m3			05/03/23 14:59	10
Isopropyl alcohol	120	U	120	39	ug/m3			05/03/23 14:59	10
Carbon disulfide	16	U	16	4.0	ug/m3			05/03/23 14:59	10
<b>Methylene Chloride</b>	<b>8.0</b>	<b>J</b>	17	6.3	ug/m3			05/03/23 14:59	10
Methyl tert-butyl ether	7.2	U	7.2	1.3	ug/m3			05/03/23 14:59	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/03/23 14:59	10
<b>n-Hexane</b>	<b>3.9</b>	<b>J</b>	18	3.9	ug/m3			05/03/23 14:59	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			05/03/23 14:59	10
Ethyl acetate	180	U	180	58	ug/m3			05/03/23 14:59	10
Methyl Ethyl Ketone	15	U	15	14	ug/m3			05/03/23 14:59	10
cis-1,2-Dichloroethene	7.9	U	7.9	0.83	ug/m3			05/03/23 14:59	10
Chloroform	9.8	U	9.8	2.0	ug/m3			05/03/23 14:59	10
Tetrahydrofuran	150	U	150	38	ug/m3			05/03/23 14:59	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			05/03/23 14:59	10
Cyclohexane	6.9	U	6.9	2.0	ug/m3			05/03/23 14:59	10
Carbon tetrachloride	13	U	13	1.4	ug/m3			05/03/23 14:59	10
<b>Benzene</b>	<b>6.2</b>	<b>J</b>	6.4	1.4	ug/m3			05/03/23 14:59	10
1,2-Dichloroethane	8.1	U	8.1	3.8	ug/m3			05/03/23 14:59	10
<b>n-Heptane</b>	<b>8.3</b>		8.2	2.3	ug/m3			05/03/23 14:59	10
<b>Trichloroethene</b>	<b>4.7</b>	<b>J</b>	11	1.3	ug/m3			05/03/23 14:59	10
1,2-Dichloropropane	9.2	U	9.2	4.3	ug/m3			05/03/23 14:59	10
Bromodichloromethane	13	U	13	3.4	ug/m3			05/03/23 14:59	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.0	ug/m3			05/03/23 14:59	10
Methyl isobutyl ketone	20	U	20	5.3	ug/m3			05/03/23 14:59	10
<b>Toluene</b>	<b>100</b>		7.5	1.6	ug/m3			05/03/23 14:59	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			05/03/23 14:59	10
1,1,2-Trichloroethane	11	U	11	4.0	ug/m3			05/03/23 14:59	10
<b>Tetrachloroethene</b>	<b>76</b>		14	1.4	ug/m3			05/03/23 14:59	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

**Client Sample ID: SSV-02**

**Lab Sample ID: 200-67988-2**

Date Collected: 04/26/23 10:39

Matrix: Air

Date Received: 04/27/23 10:35

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	20	U	20	6.1	ug/m3			05/03/23 14:59	10
1,2-Dibromoethane	15	U	15	3.2	ug/m3			05/03/23 14:59	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			05/03/23 14:59	10
<b>Ethylbenzene</b>	<b>12</b>		8.7	2.3	ug/m3			05/03/23 14:59	10
<b>m,p-Xylene</b>	<b>24</b>		22	4.1	ug/m3			05/03/23 14:59	10
<b>Xylene, o-</b>	<b>6.7 J</b>		8.7	2.3	ug/m3			05/03/23 14:59	10
Styrene	8.5	U	8.5	2.5	ug/m3			05/03/23 14:59	10
Bromoform	21	U	21	12	ug/m3			05/03/23 14:59	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			05/03/23 14:59	10
4-Ethyltoluene	9.8	U	9.8	2.4	ug/m3			05/03/23 14:59	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			05/03/23 14:59	10
1,2,4-Trimethylbenzene	9.8	U	9.8	3.9	ug/m3			05/03/23 14:59	10
1,3-Dichlorobenzene	12	U	12	4.4	ug/m3			05/03/23 14:59	10
1,4-Dichlorobenzene	12	U	12	5.4	ug/m3			05/03/23 14:59	10
Benzyl chloride	10	U	10	4.6	ug/m3			05/03/23 14:59	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			05/03/23 14:59	10
1,2,4-Trichlorobenzene	37	U	37	24	ug/m3			05/03/23 14:59	10
Hexachlorobutadiene	21	U	21	12	ug/m3			05/03/23 14:59	10
Naphthalene	26	U	26	16	ug/m3			05/03/23 14:59	10
Dibromochloromethane	17	U	17	5.4	ug/m3			05/03/23 14:59	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1-Propene, 2-methyl-	11	J N	ppb v/v		5.17	115-11-7		05/03/23 14:59	10
Unknown	23	J	ppb v/v		5.55	N/A		05/03/23 14:59	10
Unknown	10	J	ppb v/v		9.26	N/A		05/03/23 14:59	10
1-Butanol	49	J N	ppb v/v		13.84	71-36-3		05/03/23 14:59	10
Methyl methacrylate	28	J N	ppb v/v		14.58	80-62-6		05/03/23 14:59	10
Pentane, 2,3,3-trimethyl-	11	J N	ppb v/v		15.43	560-21-4		05/03/23 14:59	10

**Client Sample ID: SSV-03**

**Lab Sample ID: 200-67988-3**

Date Collected: 04/26/23 10:56

Matrix: Air

Date Received: 04/27/23 10:35

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	50	U	50	12	ppb v/v			05/03/23 15:51	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			05/03/23 15:51	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.48	ppb v/v			05/03/23 15:51	10
Chloromethane	5.0	U	5.0	1.5	ppb v/v			05/03/23 15:51	10
Vinyl chloride	2.0	U	2.0	0.21	ppb v/v			05/03/23 15:51	10
<b>1,3-Butadiene</b>	<b>1.2 J</b>		2.0	0.39	ppb v/v			05/03/23 15:51	10
Bromomethane	2.0	U	2.0	0.71	ppb v/v			05/03/23 15:51	10
Chloroethane	5.0	U	5.0	1.8	ppb v/v			05/03/23 15:51	10
Trichlorofluoromethane	2.0	U	2.0	0.50	ppb v/v			05/03/23 15:51	10
<b>Ethanol</b>	<b>360</b>		50	26	ppb v/v			05/03/23 15:51	10
Freon TF	2.0	U	2.0	0.53	ppb v/v			05/03/23 15:51	10
1,1-Dichloroethene	2.0	U	2.0	0.26	ppb v/v			05/03/23 15:51	10
<b>Acetone</b>	<b>460 E</b>		50	16	ppb v/v			05/03/23 15:51	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

**Client Sample ID: SSV-03**

**Lab Sample ID: 200-67988-3**

**Date Collected: 04/26/23 10:56**

**Matrix: Air**

**Date Received: 04/27/23 10:35**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	50	U	50	16	ppb v/v			05/03/23 15:51	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			05/03/23 15:51	10
<b>Methylene Chloride</b>	<b>2.4</b>	<b>J</b>	5.0	1.8	ppb v/v			05/03/23 15:51	10
Methyl tert-butyl ether	2.0	U	2.0	0.36	ppb v/v			05/03/23 15:51	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/03/23 15:51	10
<b>n-Hexane</b>	<b>4.4</b>	<b>J</b>	5.0	1.1	ppb v/v			05/03/23 15:51	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			05/03/23 15:51	10
Ethyl acetate	50	U	50	16	ppb v/v			05/03/23 15:51	10
<b>Methyl Ethyl Ketone</b>	<b>6.2</b>		5.0	4.9	ppb v/v			05/03/23 15:51	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.21	ppb v/v			05/03/23 15:51	10
Chloroform	2.0	U	2.0	0.41	ppb v/v			05/03/23 15:51	10
Tetrahydrofuran	50	U	50	13	ppb v/v			05/03/23 15:51	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			05/03/23 15:51	10
<b>Cyclohexane</b>	<b>4.5</b>		2.0	0.58	ppb v/v			05/03/23 15:51	10
Carbon tetrachloride	2.0	U	2.0	0.22	ppb v/v			05/03/23 15:51	10
<b>Benzene</b>	<b>1.0</b>	<b>J</b>	2.0	0.44	ppb v/v			05/03/23 15:51	10
1,2-Dichloroethane	2.0	U	2.0	0.93	ppb v/v			05/03/23 15:51	10
<b>n-Heptane</b>	<b>32</b>		2.0	0.55	ppb v/v			05/03/23 15:51	10
Trichloroethene	2.0	U	2.0	0.25	ppb v/v			05/03/23 15:51	10
1,2-Dichloropropane	2.0	U	2.0	0.94	ppb v/v			05/03/23 15:51	10
Bromodichloromethane	2.0	U	2.0	0.50	ppb v/v			05/03/23 15:51	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.45	ppb v/v			05/03/23 15:51	10
<b>Methyl isobutyl ketone</b>	<b>2.6</b>	<b>J</b>	5.0	1.3	ppb v/v			05/03/23 15:51	10
<b>Toluene</b>	<b>170</b>		2.0	0.42	ppb v/v			05/03/23 15:51	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.54	ppb v/v			05/03/23 15:51	10
1,1,2-Trichloroethane	2.0	U	2.0	0.74	ppb v/v			05/03/23 15:51	10
<b>Tetrachloroethene</b>	<b>42</b>		2.0	0.21	ppb v/v			05/03/23 15:51	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	1.5	ppb v/v			05/03/23 15:51	10
1,2-Dibromoethane	2.0	U	2.0	0.42	ppb v/v			05/03/23 15:51	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			05/03/23 15:51	10
<b>Ethylbenzene</b>	<b>2.0</b>		2.0	0.52	ppb v/v			05/03/23 15:51	10
<b>m,p-Xylene</b>	<b>4.7</b>	<b>J</b>	5.0	0.95	ppb v/v			05/03/23 15:51	10
<b>Xylene, o-</b>	<b>1.6</b>	<b>J</b>	2.0	0.52	ppb v/v			05/03/23 15:51	10
Styrene	2.0	U	2.0	0.59	ppb v/v			05/03/23 15:51	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			05/03/23 15:51	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			05/03/23 15:51	10
4-Ethyltoluene	2.0	U	2.0	0.49	ppb v/v			05/03/23 15:51	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			05/03/23 15:51	10
<b>1,2,4-Trimethylbenzene</b>	<b>1.2</b>	<b>J</b>	2.0	0.80	ppb v/v			05/03/23 15:51	10
1,3-Dichlorobenzene	2.0	U	2.0	0.74	ppb v/v			05/03/23 15:51	10
1,4-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			05/03/23 15:51	10
Benzyl chloride	2.0	U	2.0	0.88	ppb v/v			05/03/23 15:51	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			05/03/23 15:51	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.3	ppb v/v			05/03/23 15:51	10
Hexachlorobutadiene	2.0	U	2.0	1.1	ppb v/v			05/03/23 15:51	10
Naphthalene	5.0	U	5.0	3.0	ppb v/v			05/03/23 15:51	10
Dibromochloromethane	2.0	U	2.0	0.63	ppb v/v			05/03/23 15:51	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

**Client Sample ID: SSV-03**

**Lab Sample ID: 200-67988-3**

**Date Collected: 04/26/23 10:56**

**Matrix: Air**

**Date Received: 04/27/23 10:35**

**Sample Container: Summa Canister 1L**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	86	U	86	21	ug/m3			05/03/23 15:51	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			05/03/23 15:51	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.4	ug/m3			05/03/23 15:51	10
Chloromethane	10	U	10	3.1	ug/m3			05/03/23 15:51	10
Vinyl chloride	5.1	U	5.1	0.54	ug/m3			05/03/23 15:51	10
<b>1,3-Butadiene</b>	<b>2.6</b>	<b>J</b>	4.4	0.86	ug/m3			05/03/23 15:51	10
Bromomethane	7.8	U	7.8	2.8	ug/m3			05/03/23 15:51	10
Chloroethane	13	U	13	4.7	ug/m3			05/03/23 15:51	10
Trichlorofluoromethane	11	U	11	2.8	ug/m3			05/03/23 15:51	10
<b>Ethanol</b>	<b>690</b>		94	49	ug/m3			05/03/23 15:51	10
Freon TF	15	U	15	4.1	ug/m3			05/03/23 15:51	10
1,1-Dichloroethene	7.9	U	7.9	1.0	ug/m3			05/03/23 15:51	10
<b>Acetone</b>	<b>1100</b>	<b>E</b>	120	38	ug/m3			05/03/23 15:51	10
Isopropyl alcohol	120	U	120	39	ug/m3			05/03/23 15:51	10
Carbon disulfide	16	U	16	4.0	ug/m3			05/03/23 15:51	10
<b>Methylene Chloride</b>	<b>8.2</b>	<b>J</b>	17	6.3	ug/m3			05/03/23 15:51	10
Methyl tert-butyl ether	7.2	U	7.2	1.3	ug/m3			05/03/23 15:51	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/03/23 15:51	10
<b>n-Hexane</b>	<b>15</b>	<b>J</b>	18	3.9	ug/m3			05/03/23 15:51	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			05/03/23 15:51	10
Ethyl acetate	180	U	180	58	ug/m3			05/03/23 15:51	10
<b>Methyl Ethyl Ketone</b>	<b>18</b>		15	14	ug/m3			05/03/23 15:51	10
cis-1,2-Dichloroethene	7.9	U	7.9	0.83	ug/m3			05/03/23 15:51	10
Chloroform	9.8	U	9.8	2.0	ug/m3			05/03/23 15:51	10
Tetrahydrofuran	150	U	150	38	ug/m3			05/03/23 15:51	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			05/03/23 15:51	10
<b>Cyclohexane</b>	<b>16</b>		6.9	2.0	ug/m3			05/03/23 15:51	10
Carbon tetrachloride	13	U	13	1.4	ug/m3			05/03/23 15:51	10
<b>Benzene</b>	<b>3.3</b>	<b>J</b>	6.4	1.4	ug/m3			05/03/23 15:51	10
1,2-Dichloroethane	8.1	U	8.1	3.8	ug/m3			05/03/23 15:51	10
<b>n-Heptane</b>	<b>130</b>		8.2	2.3	ug/m3			05/03/23 15:51	10
Trichloroethene	11	U	11	1.3	ug/m3			05/03/23 15:51	10
1,2-Dichloropropane	9.2	U	9.2	4.3	ug/m3			05/03/23 15:51	10
Bromodichloromethane	13	U	13	3.4	ug/m3			05/03/23 15:51	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.0	ug/m3			05/03/23 15:51	10
<b>Methyl isobutyl ketone</b>	<b>11</b>	<b>J</b>	20	5.3	ug/m3			05/03/23 15:51	10
<b>Toluene</b>	<b>650</b>		7.5	1.6	ug/m3			05/03/23 15:51	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			05/03/23 15:51	10
1,1,2-Trichloroethane	11	U	11	4.0	ug/m3			05/03/23 15:51	10
<b>Tetrachloroethene</b>	<b>290</b>		14	1.4	ug/m3			05/03/23 15:51	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	6.1	ug/m3			05/03/23 15:51	10
1,2-Dibromoethane	15	U	15	3.2	ug/m3			05/03/23 15:51	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			05/03/23 15:51	10
<b>Ethylbenzene</b>	<b>8.7</b>		8.7	2.3	ug/m3			05/03/23 15:51	10
<b>m,p-Xylene</b>	<b>20</b>	<b>J</b>	22	4.1	ug/m3			05/03/23 15:51	10
<b>Xylene, o-</b>	<b>6.9</b>	<b>J</b>	8.7	2.3	ug/m3			05/03/23 15:51	10
Styrene	8.5	U	8.5	2.5	ug/m3			05/03/23 15:51	10
Bromoform	21	U	21	12	ug/m3			05/03/23 15:51	10
1,1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			05/03/23 15:51	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

**Client Sample ID: SSV-03**

**Lab Sample ID: 200-67988-3**

Date Collected: 04/26/23 10:56

Matrix: Air

Date Received: 04/27/23 10:35

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	9.8	U	9.8	2.4	ug/m3			05/03/23 15:51	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			05/03/23 15:51	10
<b>1,2,4-Trimethylbenzene</b>	<b>6.0</b>	<b>J</b>	9.8	3.9	ug/m3			05/03/23 15:51	10
1,3-Dichlorobenzene	12	U	12	4.4	ug/m3			05/03/23 15:51	10
1,4-Dichlorobenzene	12	U	12	5.4	ug/m3			05/03/23 15:51	10
Benzyl chloride	10	U	10	4.6	ug/m3			05/03/23 15:51	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			05/03/23 15:51	10
1,2,4-Trichlorobenzene	37	U	37	24	ug/m3			05/03/23 15:51	10
Hexachlorobutadiene	21	U	21	12	ug/m3			05/03/23 15:51	10
Naphthalene	26	U	26	16	ug/m3			05/03/23 15:51	10
Dibromochloromethane	17	U	17	5.4	ug/m3			05/03/23 15:51	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
1-Propene, 2-methyl-	660	J N	ppb v/v		5.16	115-11-7		05/03/23 15:51	10
Unknown	12	J	ppb v/v		5.55	N/A		05/03/23 15:51	10
Unknown	11	J	ppb v/v		9.24	N/A		05/03/23 15:51	10
Propanal, 2-methyl-	37	J N	ppb v/v		9.86	78-84-2		05/03/23 15:51	10
Unknown	16	J	ppb v/v		10.99	N/A		05/03/23 15:51	10
Hexane, 2-methyl-	72	J N	ppb v/v		12.23	591-76-4		05/03/23 15:51	10
Hexane, 3-methyl-	92	J N	ppb v/v		12.56	589-34-4		05/03/23 15:51	10
1-Butanol	39	J N	ppb v/v		13.83	71-36-3		05/03/23 15:51	10
Methyl methacrylate	13	J N	ppb v/v		14.58	80-62-6		05/03/23 15:51	10
Cyclotrisiloxane, hexamethyl-	17	J N	ppb v/v		17.05	541-05-9		05/03/23 15:51	10

**Client Sample ID: SSV-04**

**Lab Sample ID: 200-67988-4**

Date Collected: 04/26/23 11:10

Matrix: Air

Date Received: 04/27/23 10:35

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	50	U	50	12	ppb v/v			05/03/23 16:42	10
Dichlorodifluoromethane	5.0	U	5.0	1.1	ppb v/v			05/03/23 16:42	10
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	0.48	ppb v/v			05/03/23 16:42	10
Chloromethane	5.0	U	5.0	1.5	ppb v/v			05/03/23 16:42	10
Vinyl chloride	2.0	U	2.0	0.21	ppb v/v			05/03/23 16:42	10
1,3-Butadiene	2.0	U	2.0	0.39	ppb v/v			05/03/23 16:42	10
Bromomethane	2.0	U	2.0	0.71	ppb v/v			05/03/23 16:42	10
Chloroethane	5.0	U	5.0	1.8	ppb v/v			05/03/23 16:42	10
Trichlorofluoromethane	2.0	U	2.0	0.50	ppb v/v			05/03/23 16:42	10
<b>Ethanol</b>	<b>3400</b>	<b>E</b>	50	26	ppb v/v			05/03/23 16:42	10
Freon TF	2.0	U	2.0	0.53	ppb v/v			05/03/23 16:42	10
1,1-Dichloroethene	2.0	U	2.0	0.26	ppb v/v			05/03/23 16:42	10
<b>Acetone</b>	<b>520</b>	<b>E</b>	50	16	ppb v/v			05/03/23 16:42	10
<b>Isopropyl alcohol</b>	<b>210</b>		50	16	ppb v/v			05/03/23 16:42	10
Carbon disulfide	5.0	U	5.0	1.3	ppb v/v			05/03/23 16:42	10
<b>Methylene Chloride</b>	<b>1.9</b>	<b>J</b>	5.0	1.8	ppb v/v			05/03/23 16:42	10
Methyl tert-butyl ether	2.0	U	2.0	0.36	ppb v/v			05/03/23 16:42	10
trans-1,2-Dichloroethene	2.0	U	2.0	0.23	ppb v/v			05/03/23 16:42	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

**Client Sample ID: SSV-04**

**Lab Sample ID: 200-67988-4**

Date Collected: 04/26/23 11:10

Matrix: Air

Date Received: 04/27/23 10:35

Sample Container: Summa Canister 1L

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>n-Hexane</b>	<b>2.0</b>	<b>J</b>	5.0	1.1	ppb v/v			05/03/23 16:42	10
1,1-Dichloroethane	2.0	U	2.0	0.25	ppb v/v			05/03/23 16:42	10
Ethyl acetate	50	U	50	16	ppb v/v			05/03/23 16:42	10
<b>Methyl Ethyl Ketone</b>	<b>21</b>		5.0	4.9	ppb v/v			05/03/23 16:42	10
cis-1,2-Dichloroethene	2.0	U	2.0	0.21	ppb v/v			05/03/23 16:42	10
Chloroform	2.0	U	2.0	0.41	ppb v/v			05/03/23 16:42	10
Tetrahydrofuran	50	U	50	13	ppb v/v			05/03/23 16:42	10
1,1,1-Trichloroethane	2.0	U	2.0	0.44	ppb v/v			05/03/23 16:42	10
<b>Cyclohexane</b>	<b>0.80</b>	<b>J</b>	2.0	0.58	ppb v/v			05/03/23 16:42	10
Carbon tetrachloride	2.0	U	2.0	0.22	ppb v/v			05/03/23 16:42	10
<b>Benzene</b>	<b>1.4</b>	<b>J</b>	2.0	0.44	ppb v/v			05/03/23 16:42	10
1,2-Dichloroethane	2.0	U	2.0	0.93	ppb v/v			05/03/23 16:42	10
<b>n-Heptane</b>	<b>7.7</b>		2.0	0.55	ppb v/v			05/03/23 16:42	10
Trichloroethene	2.0	U	2.0	0.25	ppb v/v			05/03/23 16:42	10
1,2-Dichloropropane	2.0	U	2.0	0.94	ppb v/v			05/03/23 16:42	10
Bromodichloromethane	2.0	U	2.0	0.50	ppb v/v			05/03/23 16:42	10
cis-1,3-Dichloropropene	2.0	U	2.0	0.45	ppb v/v			05/03/23 16:42	10
<b>Methyl isobutyl ketone</b>	<b>1.9</b>	<b>J</b>	5.0	1.3	ppb v/v			05/03/23 16:42	10
<b>Toluene</b>	<b>230</b>		2.0	0.42	ppb v/v			05/03/23 16:42	10
trans-1,3-Dichloropropene	2.0	U	2.0	0.54	ppb v/v			05/03/23 16:42	10
1,1,2-Trichloroethane	2.0	U	2.0	0.74	ppb v/v			05/03/23 16:42	10
<b>Tetrachloroethene</b>	<b>60</b>		2.0	0.21	ppb v/v			05/03/23 16:42	10
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	1.5	ppb v/v			05/03/23 16:42	10
1,2-Dibromoethane	2.0	U	2.0	0.42	ppb v/v			05/03/23 16:42	10
Chlorobenzene	2.0	U	2.0	0.44	ppb v/v			05/03/23 16:42	10
<b>Ethylbenzene</b>	<b>1.2</b>	<b>J</b>	2.0	0.52	ppb v/v			05/03/23 16:42	10
<b>m,p-Xylene</b>	<b>3.0</b>	<b>J</b>	5.0	0.95	ppb v/v			05/03/23 16:42	10
<b>Xylene, o-</b>	<b>0.94</b>	<b>J</b>	2.0	0.52	ppb v/v			05/03/23 16:42	10
Styrene	2.0	U	2.0	0.59	ppb v/v			05/03/23 16:42	10
Bromoform	2.0	U	2.0	1.2	ppb v/v			05/03/23 16:42	10
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.43	ppb v/v			05/03/23 16:42	10
4-Ethyltoluene	2.0	U	2.0	0.49	ppb v/v			05/03/23 16:42	10
1,3,5-Trimethylbenzene	2.0	U	2.0	0.47	ppb v/v			05/03/23 16:42	10
1,2,4-Trimethylbenzene	2.0	U	2.0	0.80	ppb v/v			05/03/23 16:42	10
1,3-Dichlorobenzene	2.0	U	2.0	0.74	ppb v/v			05/03/23 16:42	10
1,4-Dichlorobenzene	2.0	U	2.0	0.89	ppb v/v			05/03/23 16:42	10
Benzyl chloride	2.0	U	2.0	0.88	ppb v/v			05/03/23 16:42	10
1,2-Dichlorobenzene	2.0	U	2.0	0.66	ppb v/v			05/03/23 16:42	10
1,2,4-Trichlorobenzene	5.0	U	5.0	3.3	ppb v/v			05/03/23 16:42	10
Hexachlorobutadiene	2.0	U	2.0	1.1	ppb v/v			05/03/23 16:42	10
Naphthalene	5.0	U	5.0	3.0	ppb v/v			05/03/23 16:42	10
Dibromochloromethane	2.0	U	2.0	0.63	ppb v/v			05/03/23 16:42	10
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propylene	86	U	86	21	ug/m3			05/03/23 16:42	10
Dichlorodifluoromethane	25	U	25	5.4	ug/m3			05/03/23 16:42	10
1,2-Dichlorotetrafluoroethane	14	U	14	3.4	ug/m3			05/03/23 16:42	10
Chloromethane	10	U	10	3.1	ug/m3			05/03/23 16:42	10
Vinyl chloride	5.1	U	5.1	0.54	ug/m3			05/03/23 16:42	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

**Client Sample ID: SSV-04**

**Lab Sample ID: 200-67988-4**

**Date Collected: 04/26/23 11:10**

**Matrix: Air**

**Date Received: 04/27/23 10:35**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	4.4	U	4.4	0.86	ug/m3			05/03/23 16:42	10
Bromomethane	7.8	U	7.8	2.8	ug/m3			05/03/23 16:42	10
Chloroethane	13	U	13	4.7	ug/m3			05/03/23 16:42	10
Trichlorofluoromethane	11	U	11	2.8	ug/m3			05/03/23 16:42	10
<b>Ethanol</b>	<b>6500</b>	<b>E</b>	94	49	ug/m3			05/03/23 16:42	10
Freon TF	15	U	15	4.1	ug/m3			05/03/23 16:42	10
1,1-Dichloroethene	7.9	U	7.9	1.0	ug/m3			05/03/23 16:42	10
<b>Acetone</b>	<b>1200</b>	<b>E</b>	120	38	ug/m3			05/03/23 16:42	10
<b>Isopropyl alcohol</b>	<b>510</b>		120	39	ug/m3			05/03/23 16:42	10
Carbon disulfide	16	U	16	4.0	ug/m3			05/03/23 16:42	10
<b>Methylene Chloride</b>	<b>6.6</b>	<b>J</b>	17	6.3	ug/m3			05/03/23 16:42	10
Methyl tert-butyl ether	7.2	U	7.2	1.3	ug/m3			05/03/23 16:42	10
trans-1,2-Dichloroethene	7.9	U	7.9	0.91	ug/m3			05/03/23 16:42	10
<b>n-Hexane</b>	<b>7.0</b>	<b>J</b>	18	3.9	ug/m3			05/03/23 16:42	10
1,1-Dichloroethane	8.1	U	8.1	1.0	ug/m3			05/03/23 16:42	10
Ethyl acetate	180	U	180	58	ug/m3			05/03/23 16:42	10
<b>Methyl Ethyl Ketone</b>	<b>62</b>		15	14	ug/m3			05/03/23 16:42	10
cis-1,2-Dichloroethene	7.9	U	7.9	0.83	ug/m3			05/03/23 16:42	10
Chloroform	9.8	U	9.8	2.0	ug/m3			05/03/23 16:42	10
Tetrahydrofuran	150	U	150	38	ug/m3			05/03/23 16:42	10
1,1,1-Trichloroethane	11	U	11	2.4	ug/m3			05/03/23 16:42	10
<b>Cyclohexane</b>	<b>2.7</b>	<b>J</b>	6.9	2.0	ug/m3			05/03/23 16:42	10
Carbon tetrachloride	13	U	13	1.4	ug/m3			05/03/23 16:42	10
<b>Benzene</b>	<b>4.4</b>	<b>J</b>	6.4	1.4	ug/m3			05/03/23 16:42	10
1,2-Dichloroethane	8.1	U	8.1	3.8	ug/m3			05/03/23 16:42	10
<b>n-Heptane</b>	<b>31</b>		8.2	2.3	ug/m3			05/03/23 16:42	10
Trichloroethene	11	U	11	1.3	ug/m3			05/03/23 16:42	10
1,2-Dichloropropane	9.2	U	9.2	4.3	ug/m3			05/03/23 16:42	10
Bromodichloromethane	13	U	13	3.4	ug/m3			05/03/23 16:42	10
cis-1,3-Dichloropropene	9.1	U	9.1	2.0	ug/m3			05/03/23 16:42	10
<b>Methyl isobutyl ketone</b>	<b>7.9</b>	<b>J</b>	20	5.3	ug/m3			05/03/23 16:42	10
<b>Toluene</b>	<b>850</b>		7.5	1.6	ug/m3			05/03/23 16:42	10
trans-1,3-Dichloropropene	9.1	U	9.1	2.5	ug/m3			05/03/23 16:42	10
1,1,2-Trichloroethane	11	U	11	4.0	ug/m3			05/03/23 16:42	10
<b>Tetrachloroethene</b>	<b>410</b>		14	1.4	ug/m3			05/03/23 16:42	10
Methyl Butyl Ketone (2-Hexanone)	20	U	20	6.1	ug/m3			05/03/23 16:42	10
1,2-Dibromoethane	15	U	15	3.2	ug/m3			05/03/23 16:42	10
Chlorobenzene	9.2	U	9.2	2.0	ug/m3			05/03/23 16:42	10
<b>Ethylbenzene</b>	<b>5.2</b>	<b>J</b>	8.7	2.3	ug/m3			05/03/23 16:42	10
<b>m,p-Xylene</b>	<b>13</b>	<b>J</b>	22	4.1	ug/m3			05/03/23 16:42	10
<b>Xylene, o-</b>	<b>4.1</b>	<b>J</b>	8.7	2.3	ug/m3			05/03/23 16:42	10
Styrene	8.5	U	8.5	2.5	ug/m3			05/03/23 16:42	10
Bromoform	21	U	21	12	ug/m3			05/03/23 16:42	10
1,1,2,2-Tetrachloroethane	14	U	14	3.0	ug/m3			05/03/23 16:42	10
4-Ethyltoluene	9.8	U	9.8	2.4	ug/m3			05/03/23 16:42	10
1,3,5-Trimethylbenzene	9.8	U	9.8	2.3	ug/m3			05/03/23 16:42	10
1,2,4-Trimethylbenzene	9.8	U	9.8	3.9	ug/m3			05/03/23 16:42	10
1,3-Dichlorobenzene	12	U	12	4.4	ug/m3			05/03/23 16:42	10

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# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

**Client Sample ID: SSV-04**

**Lab Sample ID: 200-67988-4**

**Date Collected: 04/26/23 11:10**

**Matrix: Air**

**Date Received: 04/27/23 10:35**

**Sample Container: Summa Canister 1L**

**Method: EPA TO-15 - Volatile Organic Compounds in Ambient Air (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	12	U	12	5.4	ug/m3			05/03/23 16:42	10
Benzyl chloride	10	U	10	4.6	ug/m3			05/03/23 16:42	10
1,2-Dichlorobenzene	12	U	12	4.0	ug/m3			05/03/23 16:42	10
1,2,4-Trichlorobenzene	37	U	37	24	ug/m3			05/03/23 16:42	10
Hexachlorobutadiene	21	U	21	12	ug/m3			05/03/23 16:42	10
Naphthalene	26	U	26	16	ug/m3			05/03/23 16:42	10
Dibromochloromethane	17	U	17	5.4	ug/m3			05/03/23 16:42	10

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Propane	48	J N	ppb v/v		4.33	74-98-6		05/03/23 16:42	10
Unknown	90	J	ppb v/v		5.22	N/A		05/03/23 16:42	10
Unknown	20	J	ppb v/v		5.55	N/A		05/03/23 16:42	10
Unknown	69	J	ppb v/v		9.24	N/A		05/03/23 16:42	10
Propanal, 2-methyl-	15	J N	ppb v/v		9.86	78-84-2		05/03/23 16:42	10
Hexane, 3-methyl-	12	J N	ppb v/v		12.56	589-34-4		05/03/23 16:42	10
1-Butanol	69	J N	ppb v/v		13.84	71-36-3		05/03/23 16:42	10
Pentane, 2,3,4-trimethyl-	14	J N	ppb v/v		15.18	565-75-3		05/03/23 16:42	10
Pentane, 2,3,3-trimethyl-	30	J N	ppb v/v		15.43	560-21-4		05/03/23 16:42	10
Octane	15	J N	ppb v/v		16.63	111-65-9		05/03/23 16:42	10

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Method: TO-15 - Volatile Organic Compounds in Ambient Air

**Lab Sample ID: MB 200-191002/4**  
**Matrix: Air**  
**Analysis Batch: 191002**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Propylene	5.0	U	5.0	1.2	ppb v/v			05/03/23 09:51	1
Dichlorodifluoromethane	0.50	U	0.50	0.11	ppb v/v			05/03/23 09:51	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.048	ppb v/v			05/03/23 09:51	1
Chloromethane	0.50	U	0.50	0.15	ppb v/v			05/03/23 09:51	1
Vinyl chloride	0.20	U	0.20	0.021	ppb v/v			05/03/23 09:51	1
1,3-Butadiene	0.20	U	0.20	0.039	ppb v/v			05/03/23 09:51	1
Bromomethane	0.20	U	0.20	0.071	ppb v/v			05/03/23 09:51	1
Chloroethane	0.50	U	0.50	0.18	ppb v/v			05/03/23 09:51	1
Trichlorofluoromethane	0.20	U	0.20	0.050	ppb v/v			05/03/23 09:51	1
Ethanol	5.0	U	5.0	2.6	ppb v/v			05/03/23 09:51	1
Freon TF	0.20	U	0.20	0.053	ppb v/v			05/03/23 09:51	1
1,1-Dichloroethene	0.20	U	0.20	0.026	ppb v/v			05/03/23 09:51	1
Acetone	5.0	U	5.0	1.6	ppb v/v			05/03/23 09:51	1
Isopropyl alcohol	5.0	U	5.0	1.6	ppb v/v			05/03/23 09:51	1
Carbon disulfide	0.50	U	0.50	0.13	ppb v/v			05/03/23 09:51	1
Methylene Chloride	0.50	U	0.50	0.18	ppb v/v			05/03/23 09:51	1
Methyl tert-butyl ether	0.20	U	0.20	0.036	ppb v/v			05/03/23 09:51	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.023	ppb v/v			05/03/23 09:51	1
n-Hexane	0.50	U	0.50	0.11	ppb v/v			05/03/23 09:51	1
1,1-Dichloroethane	0.20	U	0.20	0.025	ppb v/v			05/03/23 09:51	1
Ethyl acetate	5.0	U	5.0	1.6	ppb v/v			05/03/23 09:51	1
Methyl Ethyl Ketone	0.50	U	0.50	0.49	ppb v/v			05/03/23 09:51	1
cis-1,2-Dichloroethene	0.20	U	0.20	0.021	ppb v/v			05/03/23 09:51	1
Chloroform	0.20	U	0.20	0.041	ppb v/v			05/03/23 09:51	1
Tetrahydrofuran	5.0	U	5.0	1.3	ppb v/v			05/03/23 09:51	1
1,1,1-Trichloroethane	0.20	U	0.20	0.044	ppb v/v			05/03/23 09:51	1
Cyclohexane	0.20	U	0.20	0.058	ppb v/v			05/03/23 09:51	1
Carbon tetrachloride	0.20	U	0.20	0.022	ppb v/v			05/03/23 09:51	1
Benzene	0.20	U	0.20	0.044	ppb v/v			05/03/23 09:51	1
1,2-Dichloroethane	0.20	U	0.20	0.093	ppb v/v			05/03/23 09:51	1
n-Heptane	0.20	U	0.20	0.055	ppb v/v			05/03/23 09:51	1
Trichloroethene	0.20	U	0.20	0.025	ppb v/v			05/03/23 09:51	1
1,2-Dichloropropane	0.20	U	0.20	0.094	ppb v/v			05/03/23 09:51	1
Bromodichloromethane	0.20	U	0.20	0.050	ppb v/v			05/03/23 09:51	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.045	ppb v/v			05/03/23 09:51	1
Methyl isobutyl ketone	0.50	U	0.50	0.13	ppb v/v			05/03/23 09:51	1
Toluene	0.20	U	0.20	0.042	ppb v/v			05/03/23 09:51	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.054	ppb v/v			05/03/23 09:51	1
1,1,2-Trichloroethane	0.20	U	0.20	0.074	ppb v/v			05/03/23 09:51	1
Tetrachloroethene	0.20	U	0.20	0.021	ppb v/v			05/03/23 09:51	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.15	ppb v/v			05/03/23 09:51	1
1,2-Dibromoethane	0.20	U	0.20	0.042	ppb v/v			05/03/23 09:51	1
Chlorobenzene	0.20	U	0.20	0.044	ppb v/v			05/03/23 09:51	1
Ethylbenzene	0.20	U	0.20	0.052	ppb v/v			05/03/23 09:51	1
m,p-Xylene	0.50	U	0.50	0.095	ppb v/v			05/03/23 09:51	1
Xylene, o-	0.20	U	0.20	0.052	ppb v/v			05/03/23 09:51	1
Styrene	0.20	U	0.20	0.059	ppb v/v			05/03/23 09:51	1
Bromoform	0.20	U	0.20	0.12	ppb v/v			05/03/23 09:51	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-191002/4**  
**Matrix: Air**  
**Analysis Batch: 191002**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043	ppb v/v			05/03/23 09:51	1
4-Ethyltoluene	0.20	U	0.20	0.049	ppb v/v			05/03/23 09:51	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.047	ppb v/v			05/03/23 09:51	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.080	ppb v/v			05/03/23 09:51	1
1,3-Dichlorobenzene	0.20	U	0.20	0.074	ppb v/v			05/03/23 09:51	1
1,4-Dichlorobenzene	0.20	U	0.20	0.089	ppb v/v			05/03/23 09:51	1
Benzyl chloride	0.20	U	0.20	0.088	ppb v/v			05/03/23 09:51	1
1,2-Dichlorobenzene	0.20	U	0.20	0.066	ppb v/v			05/03/23 09:51	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.33	ppb v/v			05/03/23 09:51	1
Hexachlorobutadiene	0.20	U	0.20	0.11	ppb v/v			05/03/23 09:51	1
Naphthalene	0.50	U	0.50	0.30	ppb v/v			05/03/23 09:51	1
Dibromochloromethane	0.20	U	0.20	0.063	ppb v/v			05/03/23 09:51	1
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Propylene	8.6	U	8.6	2.1	ug/m3			05/03/23 09:51	1
Dichlorodifluoromethane	2.5	U	2.5	0.54	ug/m3			05/03/23 09:51	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.34	ug/m3			05/03/23 09:51	1
Chloromethane	1.0	U	1.0	0.31	ug/m3			05/03/23 09:51	1
Vinyl chloride	0.51	U	0.51	0.054	ug/m3			05/03/23 09:51	1
1,3-Butadiene	0.44	U	0.44	0.086	ug/m3			05/03/23 09:51	1
Bromomethane	0.78	U	0.78	0.28	ug/m3			05/03/23 09:51	1
Chloroethane	1.3	U	1.3	0.47	ug/m3			05/03/23 09:51	1
Trichlorofluoromethane	1.1	U	1.1	0.28	ug/m3			05/03/23 09:51	1
Ethanol	9.4	U	9.4	4.9	ug/m3			05/03/23 09:51	1
Freon TF	1.5	U	1.5	0.41	ug/m3			05/03/23 09:51	1
1,1-Dichloroethene	0.79	U	0.79	0.10	ug/m3			05/03/23 09:51	1
Acetone	12	U	12	3.8	ug/m3			05/03/23 09:51	1
Isopropyl alcohol	12	U	12	3.9	ug/m3			05/03/23 09:51	1
Carbon disulfide	1.6	U	1.6	0.40	ug/m3			05/03/23 09:51	1
Methylene Chloride	1.7	U	1.7	0.63	ug/m3			05/03/23 09:51	1
Methyl tert-butyl ether	0.72	U	0.72	0.13	ug/m3			05/03/23 09:51	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.091	ug/m3			05/03/23 09:51	1
n-Hexane	1.8	U	1.8	0.39	ug/m3			05/03/23 09:51	1
1,1-Dichloroethane	0.81	U	0.81	0.10	ug/m3			05/03/23 09:51	1
Ethyl acetate	18	U	18	5.8	ug/m3			05/03/23 09:51	1
Methyl Ethyl Ketone	1.5	U	1.5	1.4	ug/m3			05/03/23 09:51	1
cis-1,2-Dichloroethene	0.79	U	0.79	0.083	ug/m3			05/03/23 09:51	1
Chloroform	0.98	U	0.98	0.20	ug/m3			05/03/23 09:51	1
Tetrahydrofuran	15	U	15	3.8	ug/m3			05/03/23 09:51	1
1,1,1-Trichloroethane	1.1	U	1.1	0.24	ug/m3			05/03/23 09:51	1
Cyclohexane	0.69	U	0.69	0.20	ug/m3			05/03/23 09:51	1
Carbon tetrachloride	1.3	U	1.3	0.14	ug/m3			05/03/23 09:51	1
Benzene	0.64	U	0.64	0.14	ug/m3			05/03/23 09:51	1
1,2-Dichloroethane	0.81	U	0.81	0.38	ug/m3			05/03/23 09:51	1
n-Heptane	0.82	U	0.82	0.23	ug/m3			05/03/23 09:51	1
Trichloroethene	1.1	U	1.1	0.13	ug/m3			05/03/23 09:51	1
1,2-Dichloropropane	0.92	U	0.92	0.43	ug/m3			05/03/23 09:51	1
Bromodichloromethane	1.3	U	1.3	0.34	ug/m3			05/03/23 09:51	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.20	ug/m3			05/03/23 09:51	1

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: MB 200-191002/4**  
**Matrix: Air**  
**Analysis Batch: 191002**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl isobutyl ketone	2.0	U	2.0	0.53	ug/m3			05/03/23 09:51	1
Toluene	0.75	U	0.75	0.16	ug/m3			05/03/23 09:51	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.25	ug/m3			05/03/23 09:51	1
1,1,2-Trichloroethane	1.1	U	1.1	0.40	ug/m3			05/03/23 09:51	1
Tetrachloroethene	1.4	U	1.4	0.14	ug/m3			05/03/23 09:51	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	0.61	ug/m3			05/03/23 09:51	1
1,2-Dibromoethane	1.5	U	1.5	0.32	ug/m3			05/03/23 09:51	1
Chlorobenzene	0.92	U	0.92	0.20	ug/m3			05/03/23 09:51	1
Ethylbenzene	0.87	U	0.87	0.23	ug/m3			05/03/23 09:51	1
m,p-Xylene	2.2	U	2.2	0.41	ug/m3			05/03/23 09:51	1
Xylene, o-	0.87	U	0.87	0.23	ug/m3			05/03/23 09:51	1
Styrene	0.85	U	0.85	0.25	ug/m3			05/03/23 09:51	1
Bromoform	2.1	U	2.1	1.2	ug/m3			05/03/23 09:51	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.30	ug/m3			05/03/23 09:51	1
4-Ethyltoluene	0.98	U	0.98	0.24	ug/m3			05/03/23 09:51	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.23	ug/m3			05/03/23 09:51	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.39	ug/m3			05/03/23 09:51	1
1,3-Dichlorobenzene	1.2	U	1.2	0.44	ug/m3			05/03/23 09:51	1
1,4-Dichlorobenzene	1.2	U	1.2	0.54	ug/m3			05/03/23 09:51	1
Benzyl chloride	1.0	U	1.0	0.46	ug/m3			05/03/23 09:51	1
1,2-Dichlorobenzene	1.2	U	1.2	0.40	ug/m3			05/03/23 09:51	1
1,2,4-Trichlorobenzene	3.7	U	3.7	2.4	ug/m3			05/03/23 09:51	1
Hexachlorobutadiene	2.1	U	2.1	1.2	ug/m3			05/03/23 09:51	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			05/03/23 09:51	1
Dibromochloromethane	1.7	U	1.7	0.54	ug/m3			05/03/23 09:51	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ppb v/v			N/A		05/03/23 09:51	1

**Lab Sample ID: LCS 200-191002/3**  
**Matrix: Air**  
**Analysis Batch: 191002**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Propylene	10.0	10.1		ppb v/v		101	50 - 158
Dichlorodifluoromethane	10.0	9.47		ppb v/v		95	61 - 142
1,2-Dichlorotetrafluoroethane	10.0	9.48		ppb v/v		95	71 - 141
Chloromethane	10.0	10.3		ppb v/v		103	56 - 141
Vinyl chloride	10.0	11.1		ppb v/v		111	61 - 135
1,3-Butadiene	10.0	10.6		ppb v/v		106	58 - 139
Bromomethane	10.0	9.65		ppb v/v		96	72 - 124
Chloroethane	10.0	10.3		ppb v/v		103	68 - 130
Trichlorofluoromethane	10.0	9.24		ppb v/v		92	70 - 129
Ethanol	14.7	12.7		ppb v/v		87	50 - 150
Freon TF	10.0	9.68		ppb v/v		97	70 - 121
1,1-Dichloroethene	10.0	9.28		ppb v/v		93	68 - 120
Acetone	10.0	10.8		ppb v/v		108	54 - 154
Isopropyl alcohol	10.0	10.7		ppb v/v		107	53 - 142

Eurofins Burlington

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-191002/3**

**Client Sample ID: Lab Control Sample**

**Matrix: Air**

**Prep Type: Total/NA**

**Analysis Batch: 191002**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	10.0	10.6		ppb v/v		106	71 - 138
Methylene Chloride	10.0	10.8		ppb v/v		108	59 - 137
Methyl tert-butyl ether	10.0	10.0		ppb v/v		100	70 - 127
trans-1,2-Dichloroethene	10.0	10.4		ppb v/v		104	69 - 137
n-Hexane	10.0	10.4		ppb v/v		104	63 - 138
1,1-Dichloroethane	10.0	10.4		ppb v/v		104	66 - 130
Ethyl acetate	10.0	10.2		ppb v/v		102	70 - 131
Methyl Ethyl Ketone	10.0	10.4		ppb v/v		104	72 - 124
cis-1,2-Dichloroethene	10.0	9.42		ppb v/v		94	72 - 121
Chloroform	10.0	9.99		ppb v/v		100	73 - 124
Tetrahydrofuran	10.0	11.2		ppb v/v		112	60 - 149
1,1,1-Trichloroethane	10.0	9.66		ppb v/v		97	72 - 127
Cyclohexane	10.0	10.0		ppb v/v		100	76 - 124
Carbon tetrachloride	10.0	9.66		ppb v/v		97	71 - 133
Benzene	10.0	10.1		ppb v/v		101	73 - 119
1,2-Dichloroethane	10.0	10.2		ppb v/v		102	68 - 135
n-Heptane	10.0	10.8		ppb v/v		108	60 - 142
Trichloroethene	10.0	9.84		ppb v/v		98	73 - 122
1,2-Dichloropropane	10.0	10.8		ppb v/v		108	69 - 128
Bromodichloromethane	10.0	10.3		ppb v/v		103	75 - 127
cis-1,3-Dichloropropene	10.0	10.2		ppb v/v		102	74 - 125
Methyl isobutyl ketone	10.0	11.1		ppb v/v		111	58 - 144
Toluene	10.0	9.52		ppb v/v		95	75 - 122
trans-1,3-Dichloropropene	10.0	10.3		ppb v/v		103	74 - 128
1,1,2-Trichloroethane	10.0	9.93		ppb v/v		99	75 - 126
Tetrachloroethene	10.0	8.66		ppb v/v		87	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1		ppb v/v		101	57 - 143
1,2-Dibromoethane	10.0	9.54		ppb v/v		95	78 - 122
Chlorobenzene	10.0	9.29		ppb v/v		93	76 - 119
Ethylbenzene	10.0	9.62		ppb v/v		96	74 - 122
m,p-Xylene	20.0	19.0		ppb v/v		95	76 - 121
Xylene, o-	10.0	9.31		ppb v/v		93	73 - 123
Styrene	10.0	9.43		ppb v/v		94	74 - 125
Bromoform	10.0	10.2		ppb v/v		102	53 - 149
1,1,2,2-Tetrachloroethane	10.0	9.96		ppb v/v		100	74 - 126
4-Ethyltoluene	10.0	9.61		ppb v/v		96	75 - 129
1,3,5-Trimethylbenzene	10.0	9.73		ppb v/v		97	72 - 126
1,2,4-Trimethylbenzene	10.0	9.40		ppb v/v		94	71 - 129
1,3-Dichlorobenzene	10.0	9.19		ppb v/v		92	69 - 131
1,4-Dichlorobenzene	10.0	9.13		ppb v/v		91	67 - 132
Benzyl chloride	10.0	9.85		ppb v/v		98	60 - 136
1,2-Dichlorobenzene	10.0	9.07		ppb v/v		91	68 - 129
1,2,4-Trichlorobenzene	10.0	8.65		ppb v/v		86	50 - 150
Hexachlorobutadiene	10.0	8.83		ppb v/v		88	58 - 130
Naphthalene	10.0	8.94		ppb v/v		89	50 - 150
Dibromochloromethane	10.0	9.88		ppb v/v		99	73 - 125

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Propylene	17	17.4		ug/m3		101	50 - 158
Dichlorodifluoromethane	49	46.8		ug/m3		95	61 - 142
1,2-Dichlorotetrafluoroethane	70	66.3		ug/m3		95	71 - 141
Chloromethane	21	21.3		ug/m3		103	56 - 141
Vinyl chloride	26	28.4		ug/m3		111	61 - 135
1,3-Butadiene	22	23.4		ug/m3		106	58 - 139
Bromomethane	39	37.5		ug/m3		96	72 - 124
Chloroethane	26	27.2		ug/m3		103	68 - 130
Trichlorofluoromethane	56	51.9		ug/m3		92	70 - 129
Ethanol	28	23.9		ug/m3		87	50 - 150
Freon TF	77	74.2		ug/m3		97	70 - 121
1,1-Dichloroethene	40	36.8		ug/m3		93	68 - 120
Acetone	24	25.6		ug/m3		108	54 - 154
Isopropyl alcohol	25	26.2		ug/m3		107	53 - 142
Carbon disulfide	31	32.9		ug/m3		106	71 - 138
Methylene Chloride	35	37.6		ug/m3		108	59 - 137
Methyl tert-butyl ether	36	36.2		ug/m3		100	70 - 127
trans-1,2-Dichloroethene	40	41.3		ug/m3		104	69 - 137
n-Hexane	35	36.8		ug/m3		104	63 - 138
1,1-Dichloroethane	40	42.0		ug/m3		104	66 - 130
Ethyl acetate	36	36.9		ug/m3		102	70 - 131
Methyl Ethyl Ketone	29	30.6		ug/m3		104	72 - 124
cis-1,2-Dichloroethene	40	37.3		ug/m3		94	72 - 121
Chloroform	49	48.8		ug/m3		100	73 - 124
Tetrahydrofuran	29	33.2		ug/m3		112	60 - 149
1,1,1-Trichloroethane	55	52.7		ug/m3		97	72 - 127
Cyclohexane	34	34.5		ug/m3		100	76 - 124
Carbon tetrachloride	63	60.8		ug/m3		97	71 - 133
Benzene	32	32.4		ug/m3		101	73 - 119
1,2-Dichloroethane	40	41.1		ug/m3		102	68 - 135
n-Heptane	41	44.4		ug/m3		108	60 - 142
Trichloroethene	54	52.9		ug/m3		98	73 - 122
1,2-Dichloropropane	46	49.8		ug/m3		108	69 - 128
Bromodichloromethane	67	69.0		ug/m3		103	75 - 127
cis-1,3-Dichloropropene	45	46.2		ug/m3		102	74 - 125
Methyl isobutyl ketone	41	45.5		ug/m3		111	58 - 144
Toluene	38	35.9		ug/m3		95	75 - 122
trans-1,3-Dichloropropene	45	46.7		ug/m3		103	74 - 128
1,1,2-Trichloroethane	55	54.2		ug/m3		99	75 - 126
Tetrachloroethene	68	58.8		ug/m3		87	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41	41.4		ug/m3		101	57 - 143
1,2-Dibromoethane	77	73.3		ug/m3		95	78 - 122
Chlorobenzene	46	42.8		ug/m3		93	76 - 119
Ethylbenzene	43	41.8		ug/m3		96	74 - 122
m,p-Xylene	87	82.4		ug/m3		95	76 - 121
Xylene, o-	43	40.4		ug/m3		93	73 - 123
Styrene	43	40.2		ug/m3		94	74 - 125
Bromoform	100	106		ug/m3		102	53 - 149
1,1,2,2-Tetrachloroethane	69	68.4		ug/m3		100	74 - 126
4-Ethyltoluene	49	47.2		ug/m3		96	75 - 129
1,3,5-Trimethylbenzene	49	47.8		ug/m3		97	72 - 126

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: LCS 200-191002/3**  
**Matrix: Air**  
**Analysis Batch: 191002**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	49	46.2		ug/m3		94	71 - 129
1,3-Dichlorobenzene	60	55.2		ug/m3		92	69 - 131
1,4-Dichlorobenzene	60	54.9		ug/m3		91	67 - 132
Benzyl chloride	52	51.0		ug/m3		98	60 - 136
1,2-Dichlorobenzene	60	54.6		ug/m3		91	68 - 129
1,2,4-Trichlorobenzene	74	64.2		ug/m3		86	50 - 150
Hexachlorobutadiene	110	94.1		ug/m3		88	58 - 130
Naphthalene	52	46.9		ug/m3		89	50 - 150
Dibromochloromethane	85	84.2		ug/m3		99	73 - 125

**Lab Sample ID: 200-67988-1 DU**  
**Matrix: Air**  
**Analysis Batch: 191002**

**Client Sample ID: SSV-01**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Propylene	50	U	50	U	ppb v/v		NC	25
Dichlorodifluoromethane	5.0	U	5.0	U	ppb v/v		NC	25
1,2-Dichlorotetrafluoroethane	2.0	U	2.0	U	ppb v/v		NC	25
Chloromethane	5.0	U	5.0	U	ppb v/v		NC	25
Vinyl chloride	2.0	U	2.0	U	ppb v/v		NC	25
1,3-Butadiene	2.0	U	2.0	U	ppb v/v		NC	25
Bromomethane	2.0	U	2.0	U	ppb v/v		NC	25
Chloroethane	5.0	U	5.0	U	ppb v/v		NC	25
Trichlorofluoromethane	2.0	U	2.0	U	ppb v/v		NC	25
Ethanol	760		788		ppb v/v		3	25
Freon TF	2.0	U	2.0	U	ppb v/v		NC	25
1,1-Dichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
Acetone	100		107		ppb v/v		3	25
Isopropyl alcohol	23	J	23.4	J	ppb v/v		3	25
Carbon disulfide	5.0	U	5.0	U	ppb v/v		NC	25
Methylene Chloride	2.1	J	2.19	J	ppb v/v		5	25
Methyl tert-butyl ether	2.0	U	2.0	U	ppb v/v		NC	25
trans-1,2-Dichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
n-Hexane	2.1	J	2.11	J	ppb v/v		0.8	25
1,1-Dichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Ethyl acetate	50	U	50	U	ppb v/v		NC	25
Methyl Ethyl Ketone	5.0	U	5.0	U	ppb v/v		NC	25
cis-1,2-Dichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
Chloroform	2.0	U	2.0	U	ppb v/v		NC	25
Tetrahydrofuran	50	U	50	U	ppb v/v		NC	25
1,1,1-Trichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Cyclohexane	2.0	U	0.597	J	ppb v/v		NC	25
Carbon tetrachloride	2.0	U	2.0	U	ppb v/v		NC	25
Benzene	1.1	J	1.14	J	ppb v/v		5	25
1,2-Dichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
n-Heptane	2.2		2.30		ppb v/v		4	25
Trichloroethene	2.0	U	2.0	U	ppb v/v		NC	25
1,2-Dichloropropane	2.0	U	2.0	U	ppb v/v		NC	25
Bromodichloromethane	2.0	U	2.0	U	ppb v/v		NC	25

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: 200-67988-1 DU**  
**Matrix: Air**  
**Analysis Batch: 191002**

**Client Sample ID: SSV-01**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
cis-1,3-Dichloropropene	2.0	U	2.0	U	ppb v/v		NC	25
Methyl isobutyl ketone	5.0	U	5.0	U	ppb v/v		NC	25
Toluene	17		17.7		ppb v/v		2	25
trans-1,3-Dichloropropene	2.0	U	2.0	U	ppb v/v		NC	25
1,1,2-Trichloroethane	2.0	U	2.0	U	ppb v/v		NC	25
Tetrachloroethene	4.6		4.60		ppb v/v		0.5	25
Methyl Butyl Ketone (2-Hexanone)	5.0	U	5.0	U	ppb v/v		NC	25
1,2-Dibromoethane	2.0	U	2.0	U	ppb v/v		NC	25
Chlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
Ethylbenzene	2.0	U	2.0	U	ppb v/v		NC	25
m,p-Xylene	1.5	J	1.49	J	ppb v/v		0.5	25
Xylene, o-	0.57	J	0.599	J	ppb v/v		5	25
Styrene	2.0	U	2.0	U	ppb v/v		NC	25
Bromoform	2.0	U	2.0	U	ppb v/v		NC	25
1,1,2,2-Tetrachloroethane	2.0	U	2.0	U	ppb v/v		NC	25
4-Ethyltoluene	2.0	U	2.0	U	ppb v/v		NC	25
1,3,5-Trimethylbenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,2,4-Trimethylbenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,3-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,4-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
Benzyl chloride	2.0	U	2.0	U	ppb v/v		NC	25
1,2-Dichlorobenzene	2.0	U	2.0	U	ppb v/v		NC	25
1,2,4-Trichlorobenzene	5.0	U	5.0	U	ppb v/v		NC	25
Hexachlorobutadiene	2.0	U	2.0	U	ppb v/v		NC	25
Naphthalene	5.0	U	5.0	U	ppb v/v		NC	25
Dibromochloromethane	2.0	U	2.0	U	ppb v/v		NC	25
Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Propylene	86	U	86	U	ug/m3		NC	25
Dichlorodifluoromethane	25	U	25	U	ug/m3		NC	25
1,2-Dichlorotetrafluoroethane	14	U	14	U	ug/m3		NC	25
Chloromethane	10	U	10	U	ug/m3		NC	25
Vinyl chloride	5.1	U	5.1	U	ug/m3		NC	25
1,3-Butadiene	4.4	U	4.4	U	ug/m3		NC	25
Bromomethane	7.8	U	7.8	U	ug/m3		NC	25
Chloroethane	13	U	13	U	ug/m3		NC	25
Trichlorofluoromethane	11	U	11	U	ug/m3		NC	25
Ethanol	1400		1490		ug/m3		3	25
Freon TF	15	U	15	U	ug/m3		NC	25
1,1-Dichloroethene	7.9	U	7.9	U	ug/m3		NC	25
Acetone	250		254		ug/m3		3	25
Isopropyl alcohol	56	J	57.4	J	ug/m3		3	25
Carbon disulfide	16	U	16	U	ug/m3		NC	25
Methylene Chloride	7.2	J	7.60	J	ug/m3		5	25
Methyl tert-butyl ether	7.2	U	7.2	U	ug/m3		NC	25
trans-1,2-Dichloroethene	7.9	U	7.9	U	ug/m3		NC	25
n-Hexane	7.4	J	7.44	J	ug/m3		0.8	25
1,1-Dichloroethane	8.1	U	8.1	U	ug/m3		NC	25

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# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: ATCT Site G

Job ID: 200-67988-1  
 SDG: 200-67988

## Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

**Lab Sample ID: 200-67988-1 DU**  
**Matrix: Air**  
**Analysis Batch: 191002**

**Client Sample ID: SSV-01**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier	Result	Qualifier				
Ethyl acetate	180	U	180	U	ug/m3		NC	25
Methyl Ethyl Ketone	15	U	15	U	ug/m3		NC	25
cis-1,2-Dichloroethene	7.9	U	7.9	U	ug/m3		NC	25
Chloroform	9.8	U	9.8	U	ug/m3		NC	25
Tetrahydrofuran	150	U	150	U	ug/m3		NC	25
1,1,1-Trichloroethane	11	U	11	U	ug/m3		NC	25
Cyclohexane	6.9	U	2.05	J	ug/m3		NC	25
Carbon tetrachloride	13	U	13	U	ug/m3		NC	25
Benzene	3.5	J	3.64	J	ug/m3		5	25
1,2-Dichloroethane	8.1	U	8.1	U	ug/m3		NC	25
n-Heptane	9.0		9.43		ug/m3		4	25
Trichloroethene	11	U	11	U	ug/m3		NC	25
1,2-Dichloropropane	9.2	U	9.2	U	ug/m3		NC	25
Bromodichloromethane	13	U	13	U	ug/m3		NC	25
cis-1,3-Dichloropropene	9.1	U	9.1	U	ug/m3		NC	25
Methyl isobutyl ketone	20	U	20	U	ug/m3		NC	25
Toluene	65		66.6		ug/m3		2	25
trans-1,3-Dichloropropene	9.1	U	9.1	U	ug/m3		NC	25
1,1,2-Trichloroethane	11	U	11	U	ug/m3		NC	25
Tetrachloroethene	31		31.2		ug/m3		0.5	25
Methyl Butyl Ketone (2-Hexanone)	20	U	20	U	ug/m3		NC	25
1,2-Dibromoethane	15	U	15	U	ug/m3		NC	25
Chlorobenzene	9.2	U	9.2	U	ug/m3		NC	25
Ethylbenzene	8.7	U	8.7	U	ug/m3		NC	25
m,p-Xylene	6.4	J	6.47	J	ug/m3		0.5	25
Xylene, o-	2.5	J	2.60	J	ug/m3		5	25
Styrene	8.5	U	8.5	U	ug/m3		NC	25
Bromoform	21	U	21	U	ug/m3		NC	25
1,1,2,2-Tetrachloroethane	14	U	14	U	ug/m3		NC	25
4-Ethyltoluene	9.8	U	9.8	U	ug/m3		NC	25
1,3,5-Trimethylbenzene	9.8	U	9.8	U	ug/m3		NC	25
1,2,4-Trimethylbenzene	9.8	U	9.8	U	ug/m3		NC	25
1,3-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
1,4-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
Benzyl chloride	10	U	10	U	ug/m3		NC	25
1,2-Dichlorobenzene	12	U	12	U	ug/m3		NC	25
1,2,4-Trichlorobenzene	37	U	37	U	ug/m3		NC	25
Hexachlorobutadiene	21	U	21	U	ug/m3		NC	25
Naphthalene	26	U	26	U	ug/m3		NC	25
Dibromochloromethane	17	U	17	U	ug/m3		NC	25

# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

## Air - GC/MS VOA

### Analysis Batch: 191002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-67988-1	SSV-01	Total/NA	Air	TO-15	
200-67988-2	SSV-02	Total/NA	Air	TO-15	
200-67988-3	SSV-03	Total/NA	Air	TO-15	
200-67988-4	SSV-04	Total/NA	Air	TO-15	
MB 200-191002/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-191002/3	Lab Control Sample	Total/NA	Air	TO-15	
200-67988-1 DU	SSV-01	Total/NA	Air	TO-15	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

**Client Sample ID: SSV-01**

**Date Collected: 04/26/23 10:11**

**Date Received: 04/27/23 10:35**

**Lab Sample ID: 200-67988-1**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	191002	A1B	EET BUR	05/03/23 13:17

**Client Sample ID: SSV-02**

**Date Collected: 04/26/23 10:39**

**Date Received: 04/27/23 10:35**

**Lab Sample ID: 200-67988-2**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	191002	A1B	EET BUR	05/03/23 14:59

**Client Sample ID: SSV-03**

**Date Collected: 04/26/23 10:56**

**Date Received: 04/27/23 10:35**

**Lab Sample ID: 200-67988-3**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	191002	A1B	EET BUR	05/03/23 15:51

**Client Sample ID: SSV-04**

**Date Collected: 04/26/23 11:10**

**Date Received: 04/27/23 10:35**

**Lab Sample ID: 200-67988-4**

**Matrix: Air**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	TO-15		10	191002	A1B	EET BUR	05/03/23 16:42

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

## Laboratory: Eurofins Burlington

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Minnesota	NELAP	050-999-436	12-31-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

# Method Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	EET BUR

**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

EET BUR = Eurofins Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



# Sample Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: ATCT Site G

Job ID: 200-67988-1  
SDG: 200-67988

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-67988-1	SSV-01	Air	04/26/23 10:11	04/27/23 10:35	Air Canister (1-Liter) #4855
200-67988-2	SSV-02	Air	04/26/23 10:39	04/27/23 10:35	Air Canister (1-Liter) #6480
200-67988-3	SSV-03	Air	04/26/23 10:56	04/27/23 10:35	Air Canister (1-Liter) #6278
200-67988-4	SSV-04	Air	04/26/23 11:10	04/27/23 10:35	Air Canister (1-Liter) #4655

- 1
- 2
- 3
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- 5
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- 12
- 13
- 14
- 15
- 16

**Post-Sampling Air Canister Pressure Check Record**

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst		
200-67988	05/01/23	10:54	29.8	22	G35	CC		
<b>Sampling Information and Return Equipment Check</b>				<b>Yes</b>	<b>No</b>	<b>Comments</b>		
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?				Yes				
(2) Is the flow controller ID used for each canister recorded?				Yes				
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers					No			
(4) Is visible sign of damage to canister and/or flow controller (FC) present?					No			
If damage observed, list equipment IDs and describe condition:								
<b>Post-Sampling Return Pressure Check</b>								
Lab ID	Canister ID	Pressure <sup>1</sup> ("Hg)	Anomaly <sup>2</sup> (Y/N)	FC ID <sup>3</sup>	FC Check <sup>4</sup> Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-67988-A-1	4855	-1.7	N	6290	95/77	Y	34002426-54852	*FC CHECK
200-67988-A-2	6480	-4.7	N	9026	*	Y	34002426-54852	REFERENCE
200-67988-A-3	6278	-3.6	N	4683	*	Y	34002426-54852	MISSING
200-67988-A-4	4655	-4.2	N	7686	*	Y	4865-54588	

<sup>1</sup> Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

<sup>2</sup> If return pressure is not within criteria, initiate Non-Conformance Memo.

<sup>3</sup> Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

<sup>4</sup> Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

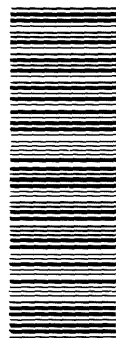


Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Eurofins TestAmerica, Burlington  
530 Community Drive  
Suite 11  
South Burlington, VT 05403-6809  
phone 802.660.1990 fax 802.660.1919

Client Contact Information		Client Project Manager: Jen Force		Samples Collected By: Elliott Allen		COC No: 1 of 1 COCs									
Company Name: SEH Inc	Phone:	Address: 3335 Vadnais Center Dr.	Email: jforce@gmail.com	TALS Project #:	For Lab Use Only:	Walk-in Client:	Lab Sampling:								
City/State/Zip: St. Paul, MN 55110	Site Contact:	Phone: 651.424.0575	Tell/Fax:	Job / SDG No.:	(See below for Add'l Items)										
FAX:	Project Name: ATCT Site G	Analysis Turnaround Time	Standard (Specific): S 163	Other (Please specify in notes section)											
Site/Location:	P.O.# Dakota 171563	Rush (Specify):		TO-14/15 (Standard / Low Level)											
Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum In Field, "Hg (Start)	Canister Vacuum In Field, "Hg (Stop)	Flow Controller ID	Canister ID	Sample Type	Other (Please specify in notes section)	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SSV-01	4/26/23	1006	4/26/23	1011	-27	-3	6290	4855	X						
SSV-02	4/26/23	1034		1039	-29	-4	9048	6480							
SSV-03	4/26/23	1051		1056	-28	-3	4883	6279							
SSV-04	4/26/23	1104		1110	-30	-4	7686	4655							
 200-67988 Chain of Custody															
Special Instructions/QC Requirements & Comments:															
Samples Shipped by:															
Samples Relinquished by: Elliott Allen / SEH															
Relinquished by:															
Lab Use Only: Shipper Name:															
Date / Time: 4/26/23 1230															
Date / Time:															
Date / Time:															
Samples Received by:															
Received by:															
Received by:															
Condition:															



## Login Sample Receipt Checklist

Client: Short Elliott Hendrickson, Inc. dba SEH

Job Number: 200-67988-1

SDG Number: 200-67988

**Login Number: 67988**

**List Number: 1**

**Creator: Cunningham, Caroline R**

**List Source: Eurofins Burlington**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1859185
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Pre-shipment Clean Canister Certification Report

## Canister Cleaning & Pre-shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time		System Start Temp(s)	Technician	Can Size	Certification Type:				
			3/25/2023	1438					22	SML	1 liter	batch
Over 1/2	600	300			22	SML	1 liter	batch				
Port	Can ID	Initial <sup>1</sup> (psia)	Final (psia)	Diff. <sup>3</sup>	Date	Time	Gauge	Temp	Date	Time	Gauge	Temp
1	4955	1.08	1.08	0	3/26/23	1405	G26	22.0	3/28/23	1033	G26	22.0
2	4863	1.08	1.08	0			G26				G26	
3	6322	1.08	1.08	0			G26				G26	
4	34002394	1.08	1.08	0			G26				G26	
5	34001121	1.08	1.08	0			G26				G26	
6	34000679	1.08	1.08	0			G26				G26	
7	4855	1.08	1.08	0			G26				G26	
8	34002426	1.08	1.08	0	3/28/23	1033	G26	22.0			G26	
9	6278	1.08	1.08	0	3/26/23	1405	G26	22.0			G26	
10	4657	1.08	1.08	0			G26				G26	
11	6480	1.08	1.08	0			G26				G26	
12	34001627	1.08	1.08	0			G26				G26	

<sup>1</sup> Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

<sup>3</sup> Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister PM Authorization Date: \_\_\_\_\_

Clean Canister Certification Analysis & Authorization of Release to Inventory									
Can ID	Date	Sequence	Analyst	Inventory Level			Secondary Review Date	Review	
				1	2	3			Limited
34002426	3/28/23	54552	KPI			XXXXXXX	4	3/28/23	DM

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

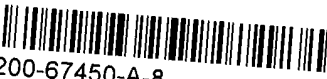
Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments: \_\_\_\_\_



200-67450-A-8  
 34002426  
 Location: Air-Storage  
 Bottle: Summa Canister 1L  
 Sampled: 3/25/2023 12:00 AM 200-1718741

Loc: 200  
**67450**  
**#8 A**  
**Air-Storage**



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67087-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4865 Lab Sample ID: 200-67087-1  
 Matrix: Air Lab File ID: 54588-008.d  
 Analysis Method: TO-15 Date Collected: 03/03/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 03/05/2023 16:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 189074 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
100-41-4	Ethylbenzene	0.20	U	0.20	0.052
100-42-5	Styrene	0.20	U	0.20	0.059
10061-01-5	1,3-Dichloropropene, cis-	0.20	U	0.20	0.045
10061-02-6	1,3-Dichloropropene, trans-	0.20	U	0.20	0.054
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.089
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.042
106-99-0	1,3-Butadiene	0.20	U	0.20	0.039
107-05-1	Allyl chloride	0.50	U	0.50	0.12
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.093
108-10-1	Methyl isobutyl ketone (MIBK)	0.50	U	0.50	0.13
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.047
108-88-3	Toluene	0.20	U	0.20	0.042
108-90-7	Chlorobenzene	0.20	U	0.20	0.044
109-99-9	Tetrahydrofuran	5.0	U	5.0	1.3
110-54-3	Hexane	0.50	U	0.50	0.11
110-82-7	Cyclohexane	0.20	U	0.20	0.058
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.33
123-91-1	1,4-Dioxane	0.20	U	0.20	0.078
124-48-1	Dibromochloromethane	0.20	U	0.20	0.063
127-18-4	Tetrachloroethene	0.20	U	0.20	0.021
142-82-5	n-Heptane	0.20	U	0.20	0.055
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.021
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.036
179601-23-1	m,p-Xylene	0.50	U	0.50	0.095
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.038
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.074
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.022
593-60-2	Vinyl bromide	0.20	U	0.20	0.050
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.049
64-17-5	Ethanol	5.0	U	5.0	2.6
67-63-0	Isopropanol	5.0	U	5.0	1.6
67-64-1	Acetone	5.0	U	5.0	1.6
67-66-3	Chloroform	0.20	U	0.20	0.041



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67087-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4865 Lab Sample ID: 200-67087-1  
 Matrix: Air Lab File ID: 54588-008.d  
 Analysis Method: TO-15 Date Collected: 03/03/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 03/05/2023 16:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 189074 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.20	U	0.20	0.044
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.044
74-83-9	Bromomethane	0.20	U	0.20	0.071
74-87-3	Chloromethane	0.50	U	0.50	0.15
75-00-3	Chloroethane	0.50	U	0.50	0.18
75-01-4	Vinyl chloride	0.20	U	0.20	0.021
75-09-2	Methylene Chloride	0.50	U	0.50	0.18
75-15-0	Carbon disulfide	0.50	U	0.50	0.13
75-25-2	Bromoform	0.20	U	0.20	0.12
75-27-4	Bromodichloromethane	0.20	U	0.20	0.050
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.025
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.026
75-65-0	tert-Butyl alcohol	5.0	U	5.0	1.2
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.050
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	U	0.20	0.053
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.048
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.094
78-93-3	Methyl ethyl ketone (MEK)	0.50	U	0.50	0.49
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.074
79-01-6	Trichloroethene	0.20	U	0.20	0.025
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.043
80-62-6	Methyl methacrylate	0.50	U	0.50	0.14
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.11
91-20-3	Naphthalene	0.50	U	0.50	0.30
95-47-6	Xylene, o-	0.20	U	0.20	0.052
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.046
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.066
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.080
591-78-6	2-Hexanone	0.50	U	0.50	0.15

Eurofins Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230305-54588.b\54588-008.d  
 Lims ID: 200-67087-A-1  
 Client ID: 4865  
 Sample Type: Client  
 Inject. Date: 05-Mar-2023 16:02:30 ALS Bottle#: 7 Worklist Smp#: 8  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0054588-008  
 Misc. Info.: 67087-01  
 Operator ID: wrd Instrument ID: CHW.i  
 Method: \\chromfs\Burlington\ChromData\CHW.i\20230305-54588.b\TO15\_TO3\_MasterMethod\_W.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 06-Mar-2023 08:59:20 Calib Date: 03-Mar-2023 01:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Burlington\ChromData\CHW.i\20230302-54558.b\54558-015.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX1650

First Level Reviewer: BKZ7

Date: 06-Mar-2023 09:02:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.089				ND	
2 Dichlorodifluoromethane	85		4.174				ND	
3 Chlorodifluoromethane	51		4.217				ND	
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.522				ND	
5 Chloromethane	50		4.634				ND	
6 Vinyl chloride	62		4.923				ND	
7 Butane	43		4.923				ND	7
8 Butadiene	54		5.036				ND	
9 Bromomethane	94		5.736				ND	
10 Chloroethane	64		6.004				ND	
13 Vinyl bromide	106		6.421				ND	
14 Trichlorofluoromethane	101		6.582				ND	
16 Ethanol	45		6.951				ND	
20 1,1-Dichloroethene	96		7.630				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	101		7.673				ND	
22 Acetone	43		7.710				ND	
23 Isopropyl alcohol	45		8.005				ND	
24 Carbon disulfide	76		8.037				ND	7
26 3-Chloro-1-propene	41		8.320				ND	
27 Methylene Chloride	49		8.550				ND	7
28 2-Methyl-2-propanol	59		8.770				ND	
30 trans-1,2-Dichloroethene	61		9.048				ND	
31 Methyl tert-butyl ether	73		9.059				ND	
32 Hexane	57		9.551				ND	
33 1,1-Dichloroethane	63		9.797				ND	
34 Vinyl acetate	43		9.818				ND	
S 35 1,2-Dichloroethene, Total	61		10.200				ND	7
36 2-Butanone (MEK)	72		10.760				ND	
37 cis-1,2-Dichloroethene	96		10.787				ND	
38 Ethyl acetate	88		10.856				ND	
* 39 Chlorobromomethane	128	11.193	11.193	0.000	87	80136	10.0	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
40 Tetrahydrofuran	42		11.247				ND	
41 Chloroform	83		11.370				ND	
42 1,1,1-Trichloroethane	97		11.669				ND	
43 Cyclohexane	84		11.814				ND	
44 Carbon tetrachloride	117		11.953				ND	
45 Benzene	78		12.290				ND	
46 1,2-Dichloroethane	62		12.370				ND	
47 Isooctane	57		12.514				ND	
48 n-Heptane	43		12.830				ND	
* 49 1,4-Difluorobenzene	114	13.033	13.033	0.000	95	496739	10.0	
51 Trichloroethene	95		13.461				ND	
53 1,2-Dichloropropane	63		13.911				ND	
54 Methyl methacrylate	69		14.012				ND	
55 1,4-Dioxane	88		14.050				ND	
57 Dibromomethane	174		14.071				ND	
58 Dichlorobromomethane	83		14.382				ND	
59 cis-1,3-Dichloropropene	75		15.184				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.446				ND	
62 Toluene	92		15.821				ND	
66 trans-1,3-Dichloropropene	75		16.238				ND	
67 1,1,2-Trichloroethane	83		16.612				ND	
68 Tetrachloroethene	166		16.810				ND	
69 2-Hexanone	43		17.024				ND	
70 Chlorodibromomethane	129		17.351				ND	
71 Ethylene Dibromide	107		17.581				ND	
* 73 Chlorobenzene-d5	117	18.495	18.495	0.000	86	341278	10.0	
74 Chlorobenzene	112		18.554				ND	
75 Ethylbenzene	91		18.752				ND	
76 m-Xylene & p-Xylene	106		19.009				ND	
78 o-Xylene	106		19.785				ND	
79 Styrene	104		19.822				ND	
S 80 Xylenes, Total	106		20.100				ND	7
81 Bromoform	173		20.181				ND	
82 Isopropylbenzene	105		20.512				ND	
83 1,1,2,2-Tetrachloroethane	83		21.047				ND	
85 N-Propylbenzene	91		21.256				ND	
86 2-Chlorotoluene	91		21.400				ND	
87 4-Ethyltoluene	105		21.459				ND	
88 1,3,5-Trimethylbenzene	105		21.555				ND	
91 tert-Butylbenzene	119		22.048				ND	
92 1,2,4-Trimethylbenzene	105		22.139				ND	
93 sec-Butylbenzene	105		22.379				ND	
94 1,3-Dichlorobenzene	146		22.551				ND	
95 4-Isopropyltoluene	119		22.599				ND	
96 1,4-Dichlorobenzene	146		22.695				ND	
97 Benzyl chloride	91		22.845				ND	
98 n-Butylbenzene	91		23.155				ND	
99 1,2-Dichlorobenzene	146		23.176				ND	
102 1,2,4-Trichlorobenzene	180		25.552				ND	
103 Hexachlorobutadiene	225		25.798				ND	
104 Naphthalene	128		26.012				ND	

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

**Reagents:**

ATTO15WISs\_00010

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHW.i\20230305-54588.b\54588-008.d

Injection Date: 05-Mar-2023 16:02:30

Instrument ID: CHW.i

Operator ID: wrd

Lims ID: 200-67087-A-1

Lab Sample ID: 200-67087-1

Worklist Smp#: 8

Client ID: 4865

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

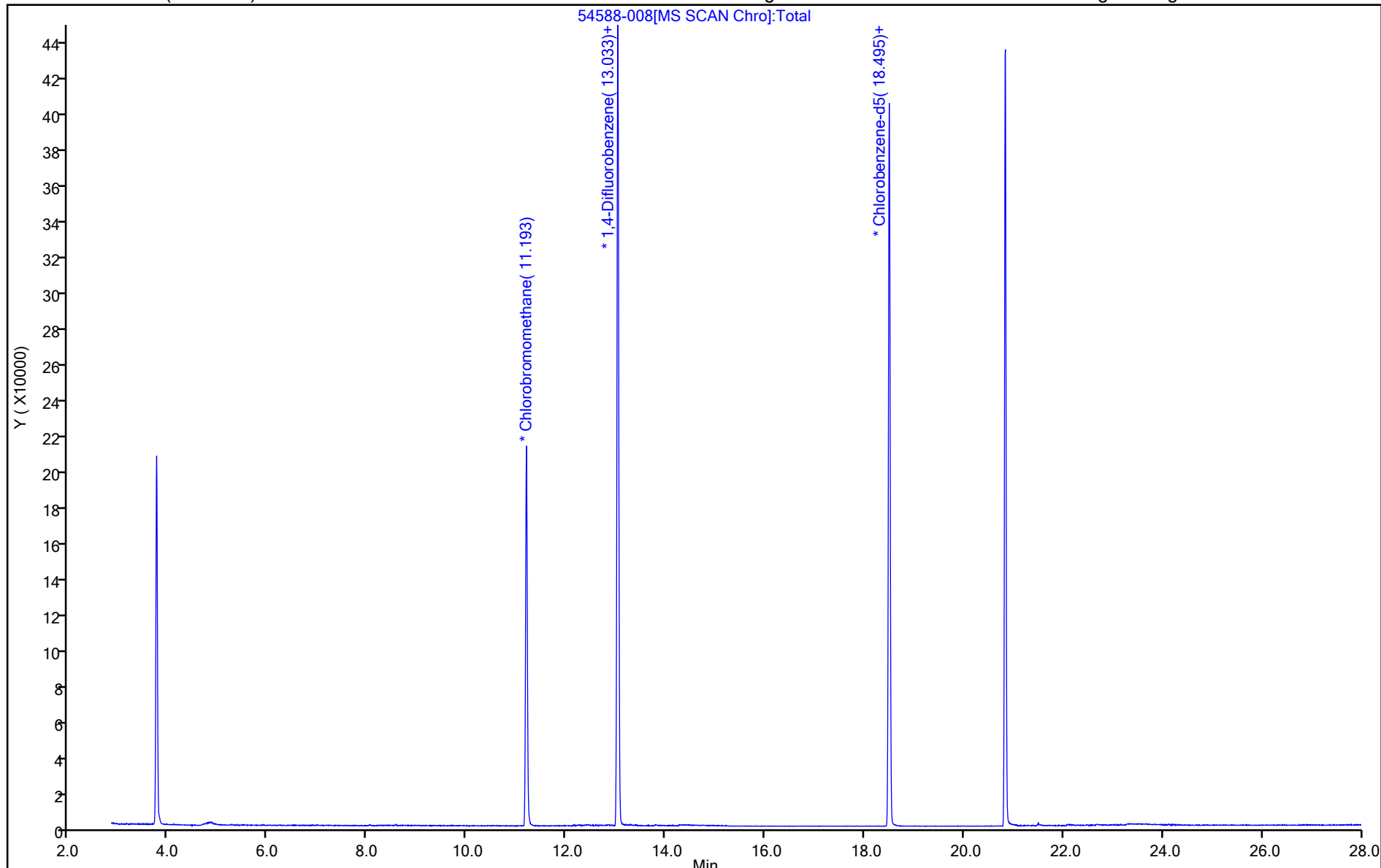
ALS Bottle#: 7

Method: TO15\_TO3\_MasterMethod\_W

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67450-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34002426 Lab Sample ID: 200-67450-8  
 Matrix: Air Lab File ID: 200-54852-005.D  
 Analysis Method: TO-15 Date Collected: 03/25/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 03/27/2023 11:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 189705 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene (Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.50	U	0.50	0.50
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67450-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34002426 Lab Sample ID: 200-67450-8  
 Matrix: Air Lab File ID: 200-54852-005.D  
 Analysis Method: TO-15 Date Collected: 03/25/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 03/27/2023 11:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 189705 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Burlington Job No.: 200-67450-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 34002426 Lab Sample ID: 200-67450-8  
 Matrix: Air Lab File ID: 200-54852-005.D  
 Analysis Method: TO-15 Date Collected: 03/25/2023 00:00  
 Sample wt/vol: 200 (mL) Date Analyzed: 03/27/2023 11:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 Purge Volume: \_\_\_\_\_ Heated Purge: (Y/N) \_\_\_\_\_ pH: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ % Solids: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 189705 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

Eurofins Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230327-54852.b\200-54852-005.D  
 Lims ID: 200-67450-A-8  
 Client ID: 34002426  
 Sample Type: Client  
 Inject. Date: 27-Mar-2023 11:22:30 ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0054852-005  
 Misc. Info.: 67450-8  
 Operator ID: vtp Instrument ID: CHG.i  
 Method: \\chromfs\Burlington\ChromData\CHG.i\20230327-54852.b\TO15\_MasterMethod\_(v1)\_G.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 28-Mar-2023 08:20:24 Calib Date: 10-Mar-2023 19:06:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Burlington\ChromData\CHG.i\20230310-54646.b\200-54646-012.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: CTX1604

First Level Reviewer: puangmaleek

Date: 28-Mar-2023 10:38:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.105				ND	7
2 Dichlorodifluoromethane	85		3.163				ND	
3 Chlorodifluoromethane	51		3.185				ND	7
4 1,2-Dichloro-1,1,2,2-tetrafluoro	85		3.383				ND	
5 Chloromethane	50		3.463				ND	
6 Vinyl chloride	62		3.661				ND	
7 Butane	43		3.666				ND	7
8 Butadiene	54		3.736				ND	
9 Bromomethane	94		4.233				ND	
10 Chloroethane	64		4.426				ND	
12 Vinyl bromide	106		4.747				ND	
13 Trichlorofluoromethane	101		4.875				ND	
15 Ethanol	45		5.153				ND	
18 1,1-Dichloroethene	96		5.769				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	101		5.795				ND	
19 Acetone	43		5.828				ND	7
22 Isopropyl alcohol	45		6.084				ND	
23 Carbon disulfide	76		6.149				ND	
25 3-Chloro-1-propene	41		6.395				ND	7
26 Methylene Chloride	49		6.609				ND	7
27 2-Methyl-2-propanol	59		6.817				ND	
29 trans-1,2-Dichloroethene	61		7.095				ND	
30 Methyl tert-butyl ether	73		7.117				ND	
31 Hexane	57		7.604				ND	
32 1,1-Dichloroethane	63		7.839				ND	
33 Vinyl acetate	43		7.850				ND	
34 2-Butanone (MEK)	72		8.807				ND	
35 cis-1,2-Dichloroethene	96		8.823				ND	
36 Ethyl acetate	88		8.904				ND	
* 37 Chlorobromomethane	128	9.241	9.235	0.006	89	217690	10.0	
38 Tetrahydrofuran	42		9.310				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
39 Chloroform	83		9.423				ND	
S 43 1,2-Dichloroethene, Total	61		9.665				ND	7
40 1,1,1-Trichloroethane	97		9.749				ND	
41 Cyclohexane	84		9.904				ND	
42 Carbon tetrachloride	117		10.048				ND	
44 Benzene	78	10.418	10.423	0.006	95	2741	0.0285	M
45 1,2-Dichloroethane	62		10.487				ND	
46 Isooctane	57		10.669				ND	
47 n-Heptane	43		11.017				ND	7
* 48 1,4-Difluorobenzene	114	11.225	11.225	0.000	95	1346193	10.0	
50 Trichloroethene	95		11.707				ND	
51 1,2-Dichloropropane	63		12.215				ND	
54 Methyl methacrylate	69		12.344				ND	
55 1,4-Dioxane	88		12.381				ND	
53 Dibromomethane	174		12.381				ND	7
56 Dichlorobromomethane	83		12.734				ND	
58 cis-1,3-Dichloropropene	75		13.622				ND	
59 4-Methyl-2-pentanone (MIBK)	43		13.938				ND	
60 Toluene	92	14.334	14.334	0.006	92	1882	0.0345	
65 trans-1,3-Dichloropropene	75		14.772				ND	
66 1,1,2-Trichloroethane	83		15.173				ND	
67 Tetrachloroethene	166		15.398				ND	7
68 2-Hexanone	43		15.650				ND	
69 Chlorodibromomethane	129		15.960				ND	
70 Ethylene Dibromide	107		16.211				ND	
* 71 Chlorobenzene-d5	117	17.190	17.185	0.005	87	1002546	10.0	
72 Chlorobenzene	112		17.249				ND	
73 Ethylbenzene	91	17.469	17.468	0.001	95	5301	0.0448	
74 m-Xylene & p-Xylene	106		17.747				ND	
76 o-Xylene	106	18.560	18.554	0.006	94	1495	0.0355	
77 Styrene	104		18.592				ND	
78 Bromoform	173		18.956				ND	
79 Isopropylbenzene	105		19.325				ND	
S 82 Xylenes, Total	106				0		0.0355	
80 1,1,2,2-Tetrachloroethane	83		19.871				ND	
83 N-Propylbenzene	91		20.095				ND	
84 2-Chlorotoluene	91		20.240				ND	
85 4-Ethyltoluene	105		20.304				ND	7
86 1,3,5-Trimethylbenzene	105		20.406				ND	7
89 tert-Butylbenzene	119		20.914				ND	7
90 1,2,4-Trimethylbenzene	105		21.005				ND	7
91 sec-Butylbenzene	105		21.251				ND	7
92 1,3-Dichlorobenzene	146		21.422				ND	MU
93 4-Isopropyltoluene	119		21.475				ND	7
94 1,4-Dichlorobenzene	146		21.566				ND	7
95 Benzyl chloride	91		21.716				ND	7
97 n-Butylbenzene	91		22.048				ND	7
96 1,2-Dichlorobenzene	146		22.064				ND	MU
100 1,2,4-Trichlorobenzene	180		24.514				ND	7
101 Hexachlorobutadiene	225		24.771				ND	
102 Naphthalene	128		24.985				ND	7



**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

**Reagents:**

ATTO15GIS\_00019

Amount Added: 20.00

Units: mL

Run Reagent



Euofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230327-54852.b\200-54852-005.D

Injection Date: 27-Mar-2023 11:22:30

Instrument ID: CHG.i

Operator ID: vtp

Lims ID: 200-67450-A-8

Lab Sample ID: 200-67450-8

Worklist Smp#: 5

Client ID: 34002426

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

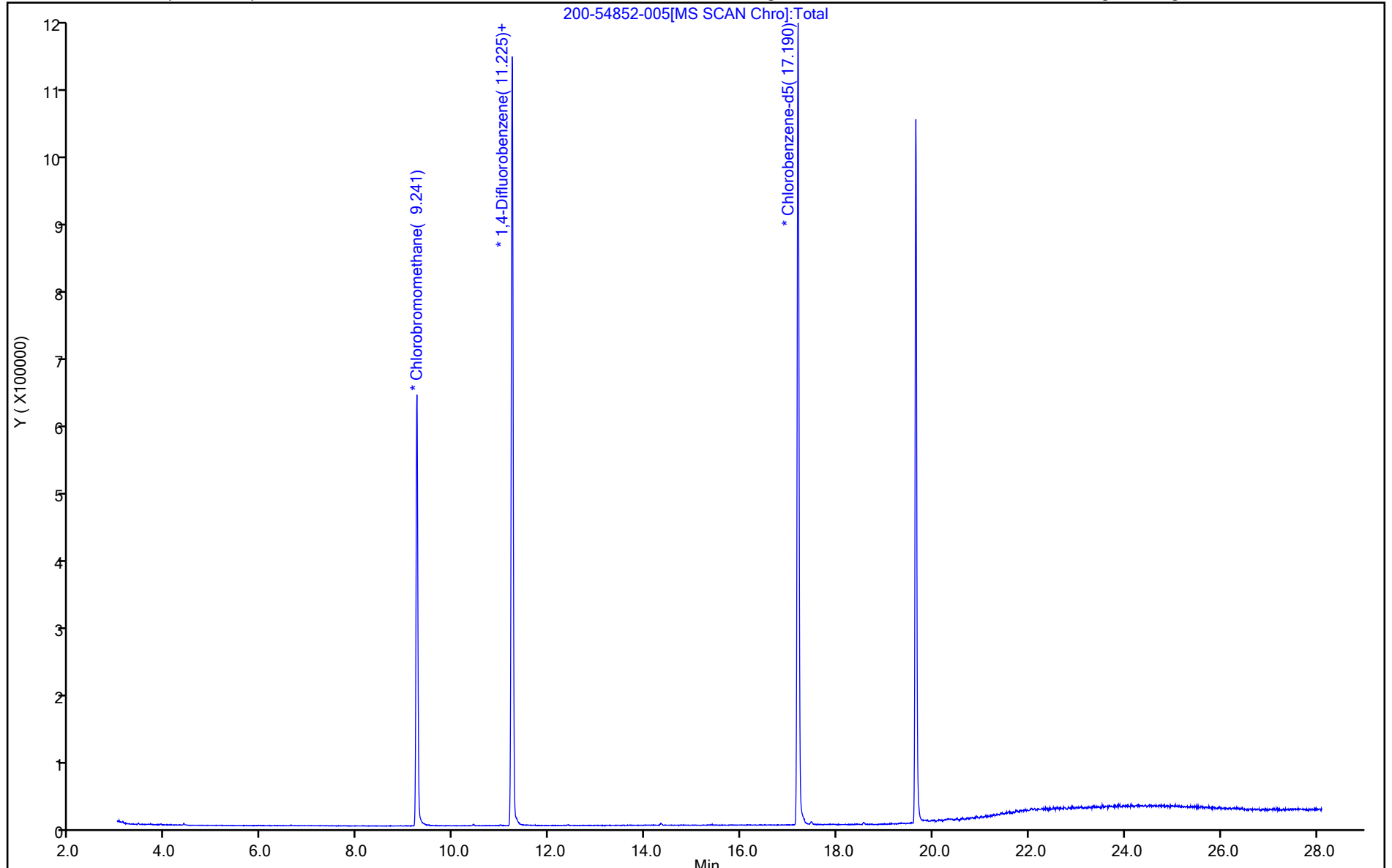
ALS Bottle#: 4

Method: TO15\_MasterMethod\_(v1)\_G

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 ( 0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Burlington

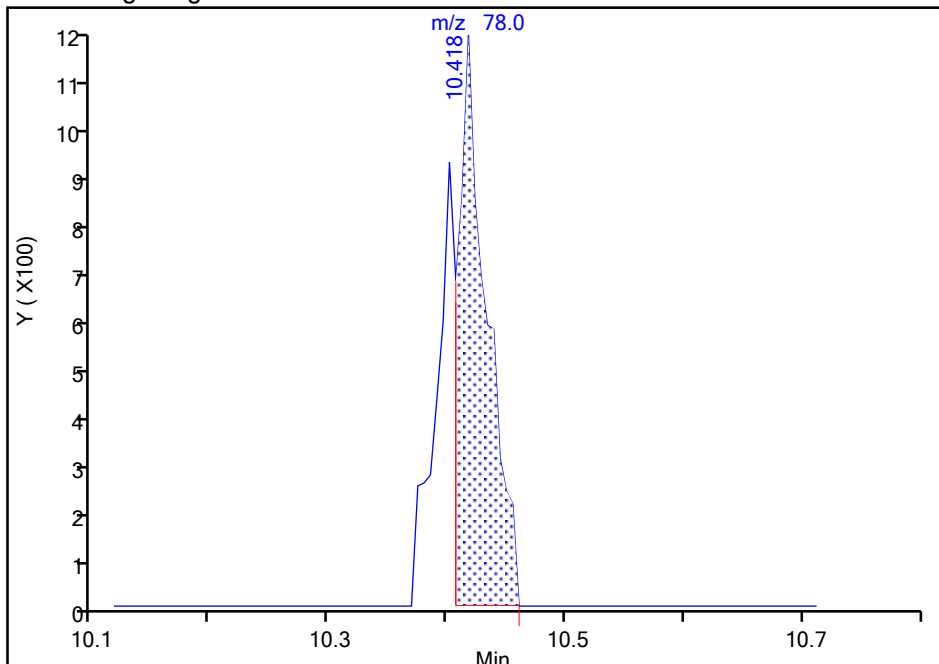
Data File: \\chromfs\Burlington\ChromData\CHG.i\20230327-54852.b\200-54852-005.D  
Injection Date: 27-Mar-2023 11:22:30 Instrument ID: CHG.i  
Lims ID: 200-67450-A-8 Lab Sample ID: 200-67450-8  
Client ID: 34002426  
Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

44 Benzene, CAS: 71-43-2

Signal: 1

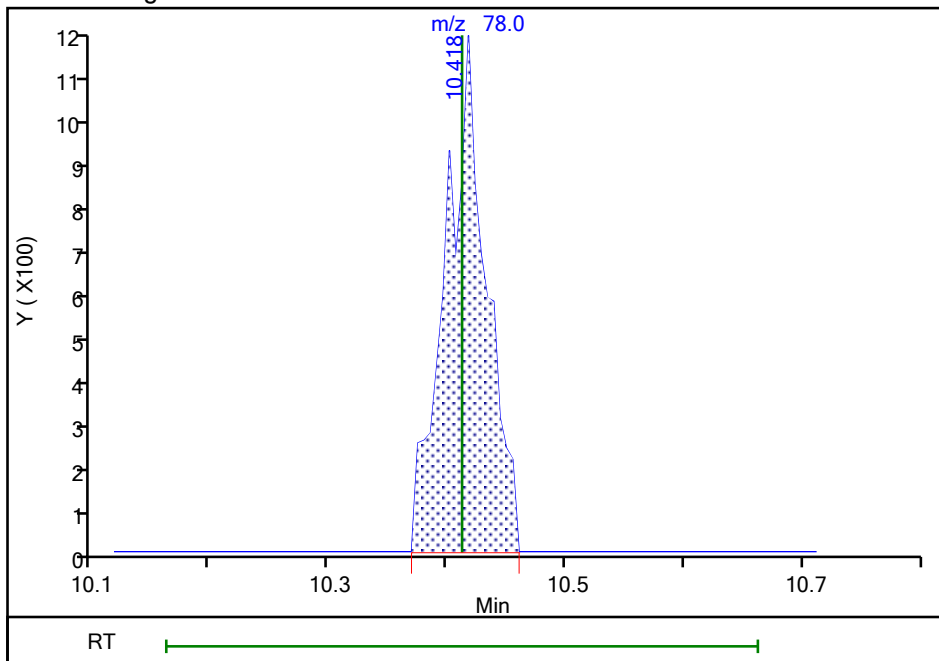
RT: 10.42  
Area: 1902  
Amount: 0.019783  
Amount Units: ppb v/v

Processing Integration Results



RT: 10.42  
Area: 2741  
Amount: 0.028510  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 28-Mar-2023 10:37:58  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

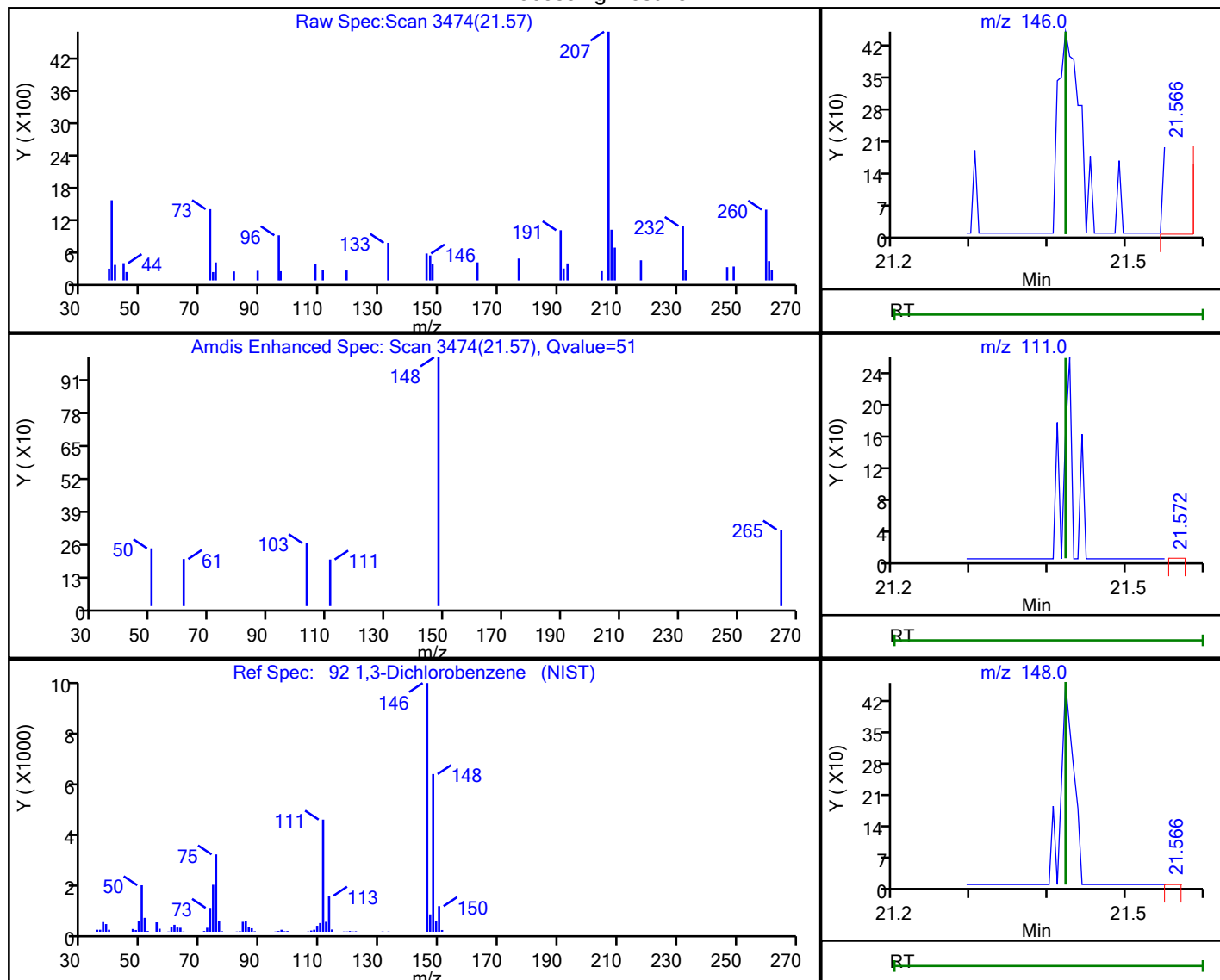


Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230327-54852.b\200-54852-005.D  
 Injection Date: 27-Mar-2023 11:22:30 Instrument ID: CHG.i  
 Lims ID: 200-67450-A-8 Lab Sample ID: 200-67450-8  
 Client ID: 34002426  
 Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

92 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
21.57	146.00	880	0.013966
21.57	111.00	244	
21.57	148.00	216	

Reviewer: puangmaleek, 28-Mar-2023 10:38:16

Audit Action: Marked Compound Undetected

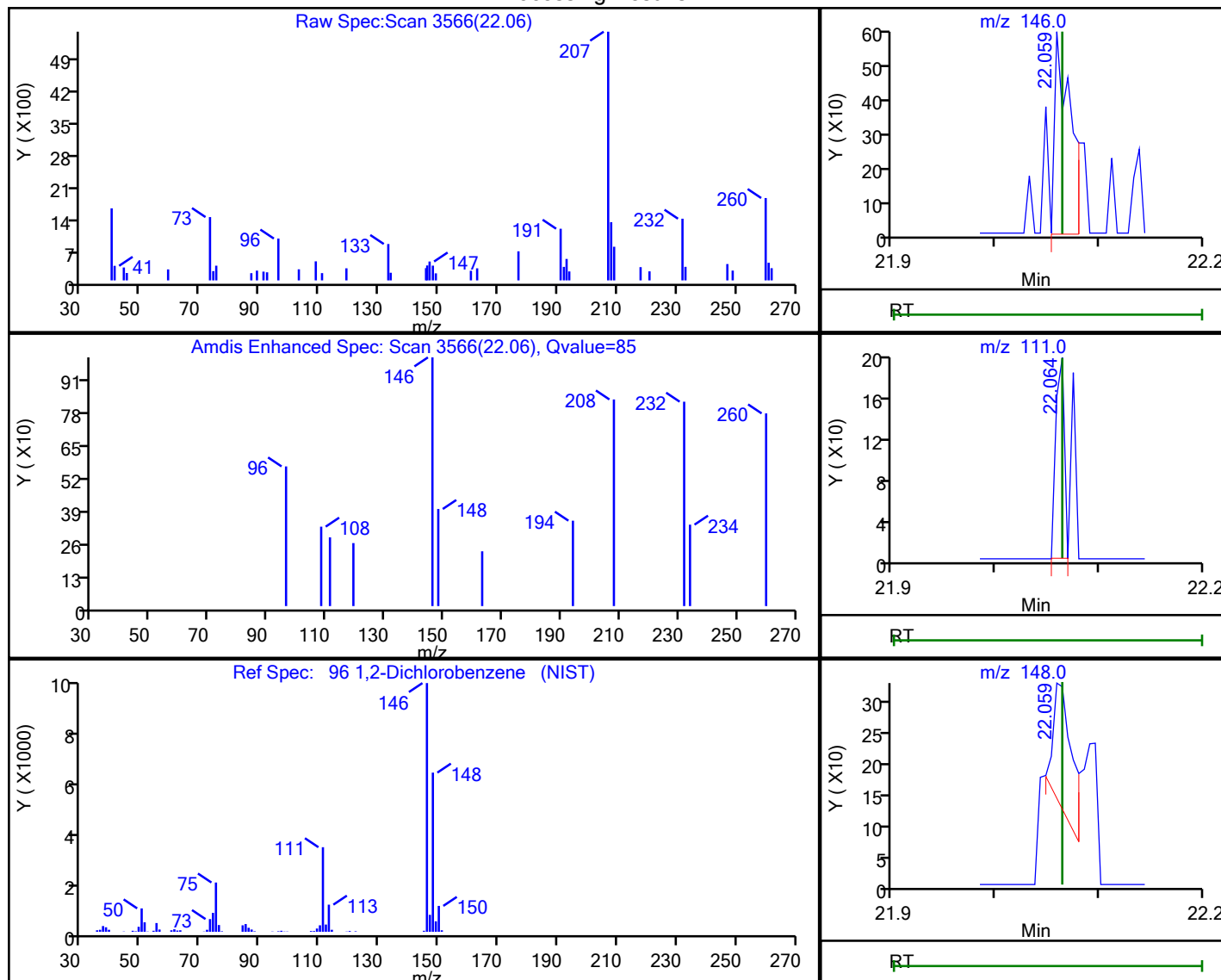
Audit Reason: Invalid Compound ID

Eurofins Burlington

Data File: \\chromfs\Burlington\ChromData\CHG.i\20230327-54852.b\200-54852-005.D  
 Injection Date: 27-Mar-2023 11:22:30 Instrument ID: CHG.i  
 Lims ID: 200-67450-A-8 Lab Sample ID: 200-67450-8  
 Client ID: 34002426  
 Operator ID: vtp ALS Bottle#: 4 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1)\_G Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
22.06	146.00	639	0.010641
22.06	111.00	115	
22.06	148.00	252	

Reviewer: puangmaleek, 28-Mar-2023 10:38:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

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**Appendix D**  
**Sponsor Remediation Agreement Letter**



## DULUTH AIRPORT AUTHORITY

April 24, 2023

Nancy Nistler  
Program Manager  
FAA Dakota-Minnesota Airports District Office  
6020 28th Ave S, Ste 102  
Minneapolis, MN 55450-2700

RE: Environmental Investigation and Remediation Duluth International Airport (DLH) Proposed Air Traffic Control Tower Site 6

Dear Nancy:

The Duluth Airport Authority (DAA) has engaged with Short Elliott Hendrickson Inc. (SEH) to conduct a Phase II Environmental Site Assessment (ESA) at Site 6 to further evaluate Recognized Environmental Conditions (RECs) identified during the January 2023 Phase I ESA (completed by FAA) and to develop a Response Action Plan (RAP) outlining remediation that will occur as the site is redeveloped.

The Phase II ESA is underway and based on the results from soil, soil vapor and groundwater testing completed to date, polynuclear aromatic hydrocarbon (PAH) and petroleum impacted soil is located below the floor slab of the shop area for Hermantown Hydraulics, the current site tenant. Chlorinated solvent and petroleum impacted groundwater was also identified on the northern portion of the site, but it is unlikely that site redevelopment will encounter groundwater. Per Minnesota Pollution Control Agency (MPCA) best management practices (BMPs), a second round of soil vapor testing is currently being conducted to determine if vapor intrusion is a concern for the proposed development; the initial round of testing did not identify contaminants at concentrations where vapor mitigation would be required.

After receipt of the second round of soil vapor testing analytical data, SEH will prepare a RAP in accordance with MPCA guidance documents and BMPs. The RAP will be submitted to the MPCA Voluntary Investigation and Cleanup and Petroleum Brownfields Programs review and approval. The approved RAP will be implemented by the DAA during site redevelopment. Following cleanup, a RAP Implementation Report that will document the remedial actions will be submitted to the MPCA for review and approval and a request for a No Further Action Determination will be made.



## **DULUTH AIRPORT AUTHORITY**

By submitting this letter, the DAA agrees to remediate the site to the satisfaction of the MPCA prior to construction of the future Air Traffic Control Tower at Site 6. We further understand all remediation and environmental planning activities at Site 6 would be done at our own risk up to the point of receiving a Determination of No Further Action.

Any questions should be directed to Mark Papko, Director of Operations for the Duluth Airport Authority at [mpapko@duluthairport.com](mailto:mpapko@duluthairport.com).

Sincerely,

Tom Werner  
Executive Director  
Duluth Airport Authority



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**Appendix E**  
**USFWS Information, Planning, and Consultation (IPaC) Results**



# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Minnesota-Wisconsin Ecological Services Field Office  
3815 American Blvd East  
Bloomington, MN 55425-1659  
Phone: (952) 858-0793 Fax: (952) 646-2873

In Reply Refer To:  
Project code: 2023-0124916  
Project Name: Air Traffic Control Tower (ATCT) Replacement

September 01, 2023

Subject: Consistency letter for 'Air Traffic Control Tower (ATCT) Replacement' for specified threatened and endangered species that may occur in your proposed project location consistent with the Minnesota-Wisconsin Endangered Species Determination Key (Minnesota-Wisconsin DKey).

Dear John Thayer:

The U.S. Fish and Wildlife Service (Service) received on **September 01, 2023** your effect determination(s) for the 'Air Traffic Control Tower (ATCT) Replacement' (Action) using the Minnesota-Wisconsin DKey within the Information for Planning and Consultation (IPaC) system. You have submitted this key to satisfy requirements under Section 7(a)(2). The Service developed this system in accordance of with the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 et seq.).

Based on your answers and the assistance of the Service's Minnesota-Wisconsin DKey, you made the following effect determination(s) for the proposed Action:

<b>Species</b>	<b>Listing Status</b>	<b>Determination</b>
Canada Lynx ( <i>Lynx canadensis</i> )	Threatened	No effect
Gray Wolf ( <i>Canis lupus</i> )	Threatened	No effect
Monarch Butterfly ( <i>Danaus plexippus</i> )	Candidate	No effect
Piping Plover ( <i>Charadrius melodus</i> )	Endangered	No effect
Red Knot ( <i>Calidris canutus rufa</i> )	Threatened	No effect
Tricolored Bat ( <i>Perimyotis subflavus</i> )	Proposed Endangered	No effect

<b>Critical Habitat</b>	<b>Listing Status</b>	<b>Determination</b>
Canada Lynx ( <i>Lynx canadensis</i> )	Final	No effect

### Determination Information

Thank you for informing the Service of your “No Effect” determination(s). Your agency has met consultation requirements and no further consultation is required for the species you determined will not be affected by the Action.

### **Additional Information**

**Sufficient project details:** Please provide sufficient project details on your project homepage in IPaC (Define Project, Project Description) to support your conclusions. Failure to disclose important aspects of your project that would influence the outcome of your effects determinations may negate your determinations and invalidate this letter. If you have site-specific information that leads you to believe a different determination is more appropriate for your project than what the Dkey concludes, you can and should proceed based on the best available information.

**Future project changes:** The Service recommends that you contact the Minnesota-Wisconsin Ecological Services Field Office or re-evaluate the project in IPaC if: 1) the scope or location of the proposed Action is changed; 2) new information reveals that the action may affect listed species or designated critical habitat in a manner or to an extent not previously considered; 3) the Action is modified in a manner that causes effects to listed species or designated critical habitat; or 4) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project changes are final or resources committed.

**For non-Federal representatives:** Please note that when a project requires consultation under section 7 of the Act, the Service must consult directly with the Federal action agency unless that agency formally designates a non-Federal representative (50 CFR 402.08). Non-Federal representatives may prepare analyses or conduct informal consultations; however, the ultimate responsibility for section 7 compliance under the Act remains with the Federal agency. Please include the Federal action agency in additional correspondence regarding this project.

### **Species-specific information**

**Bald and Golden Eagles:** Bald eagles, golden eagles, and their nests are protected under the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended, 16 U.S.C. 668a-d) (Eagle Act). The Eagle Act prohibits, except when authorized by an Eagle Act permit, the “taking” of bald and golden eagles and defines “take” as “pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb.” The Eagle Act’s implementing regulations define disturb as “... to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior.”

If you observe a bald eagle nest in the vicinity of your proposed project, you should follow the National Bald Eagle Management Guidelines (May 2007). For more information on eagles and conducting activities in the vicinity of an eagle nest, please visit our regional eagle website or contact Margaret at [Margaret\\_Rheude@fws.gov](mailto:Margaret_Rheude@fws.gov). **If the Action may affect bald or golden eagles, additional coordination with the Service under the Eagle Act may be required.**

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The following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion:

- Northern Long-eared Bat *Myotis septentrionalis* Endangered

**Coordination with the Service is not complete if additional coordination is advised above for any species.**

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**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

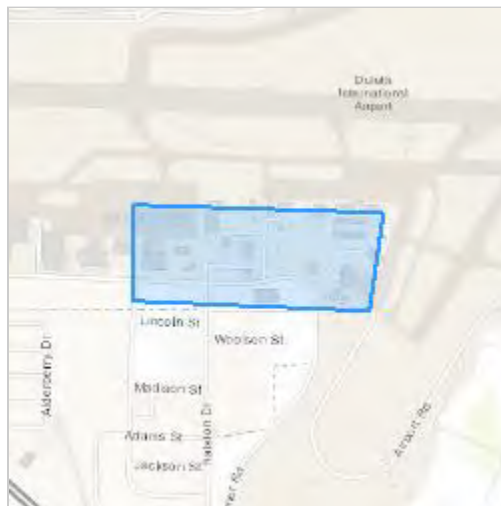
Air Traffic Control Tower (ATCT) Replacement

**2. Description**

The following description was provided for the project 'Air Traffic Control Tower (ATCT) Replacement':

The Duluth Airport Authority (DAA), as the sponsor of the Duluth International Airport (DLH or Airport), is proposing to replace the existing Air Traffic Control Tower (ATCT) with the construction of a new ATCT and Terminal Radar Approach Control (TRACON) facility at the site identified during the FAA's Airway Facilities Tower Integration Laboratory (Proposed Action).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@46.83785505,-92.19405712052016,14z>



## QUALIFICATION INTERVIEW

1. This determination key is intended to assist the user in evaluating the effects of their actions on Federally listed species in Minnesota and Wisconsin. It does not cover other prohibited activities under the Endangered Species Act (e.g., for wildlife: import/export, Interstate or foreign commerce, possession of illegally taken wildlife, etc.; for plants: import/export, reduce to possession, malicious destruction on Federal lands, commercial sale, etc.) or other statutes. Additionally, this key DOES NOT cover wind development, purposeful take (e.g., for research or surveys), communication towers that have guy wires or are over 450 feet in height, aerial or other large-scale application of any chemical (such as insecticide or herbicide), and approval of long-term permits or plans (e.g., FERC licenses, HCP's).

Click **YES** to acknowledge that you must consider other prohibitions of the ESA or other statutes outside of this determination key.

*Yes*

2. Is the action being funded, authorized, or carried out by a Federal agency?

*Yes*

3. Are you the Federal agency or designated non-federal representative?

*No*

4. Does the action involve the installation or operation of wind turbines?

*No*

5. Does the action involve purposeful take of a listed animal?

*No*

6. Does the action involve a new communications tower?

*No*

7. Does the activity involve aerial or other large-scale application of ANY chemical, including pesticides (insecticide, herbicide, fungicide, rodenticide, etc)?

*No*

8. Does the action occur near a bald eagle nest?

**Note:** Contact the Minnesota or Wisconsin Department of Natural Resources for an up-to-date list of known bald eagle nests.

*No*

9. Will your action permanently affect local hydrology?

*No*

10. Will your action temporarily affect local hydrology?

*No*

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11. Will your project have any direct impacts to a stream or river (e.g., Horizontal Directional Drilling (HDD), hydrostatic testing, stream/road crossings, new stormwater outfall discharge, dams, other in-stream work, etc.)?

*No*

12. Does your project have the potential to impact the riparian zone or indirectly impact a stream/river (e.g., cut and fill; horizontal directional drilling; construction; vegetation removal; pesticide or fertilizer application; discharge; runoff of sediment or pollutants; increase in erosion, etc.)?

**Note:** Consider all potential effects of the action, including those that may happen later in time and outside and downstream of the immediate area involved in the action.

Endangered Species Act regulation defines "effects of the action" to include all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (50 CFR 402.02).

*No*

13. Will your action disturb the ground or existing vegetation?

**Note:** This includes any off-road vehicle access, soil compaction (enough to collapse a rodent burrow), digging, seismic survey, directional drilling, heavy equipment, grading, trenching, placement of fill, pesticide application (herbicide, fungicide), vegetation management (including removal or maintenance using equipment or prescribed fire), cultivation, development, etc.

*No*

14. Will your action include spraying insecticides?

*No*

15. Does your action area occur entirely within an already developed area?

**Note:** Already developed areas are already paved, covered by existing structures, manicured lawns, industrial sites, or cultivated cropland, AND do not contain trees that could be roosting habitat. Be aware that listed species may occur in areas with natural, or semi-natural, vegetation immediately adjacent to existing utilities (e.g. roadways, railways) or within utility rights-of-way such as overhead transmission line corridors, and can utilize suitable trees, bridges, or culverts for roosting even in urban dominated landscapes (so these are not considered "already developed areas" for the purposes of this question). If unsure, select NO..

*Yes*

16. Does the action have potential indirect effects to listed species or the habitats they depend on (e.g., water discharge into adjacent habitat or waterbody, changes in groundwater elevation, introduction of an exotic plant species)?

*No*

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17. [Hidden Semantic] Does the action area intersect the Threatened gray wolf AOI?

**Automatically answered**

Yes

18. [Hidden Semantic] Does the action area intersect the monarch butterfly species list area?

**Automatically answered**

Yes

19. [Hidden semantic] Does the action intersect the Tricolored bat species list area?

**Automatically answered**

Yes

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## **IPAC USER CONTACT INFORMATION**

Agency: SEH INC  
Name: John Thayer  
Address: 418 W. Superior Street, Suite 200  
City: Duluth  
State: MN  
Zip: 54880  
Email: jthayer@sehinc.com  
Phone: 6128605087

## **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Federal Aviation Administration

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# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Minnesota-Wisconsin Ecological Services Field Office  
3815 American Blvd East  
Bloomington, MN 55425-1659  
Phone: (952) 858-0793 Fax: (952) 646-2873

In Reply Refer To:  
Project code: 2023-0124916  
Project Name: Air Traffic Control Tower (ATCT) Replacement

September 01, 2023

Federal Nexus: yes  
Federal Action Agency (if applicable): Federal Aviation Administration

**Subject:** Record of project representative's no effect determination for 'Air Traffic Control Tower (ATCT) Replacement'

Dear John Thayer:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on September 01, 2023, for 'Air Traffic Control Tower (ATCT) Replacement' (here forward, Project). This project has been assigned Project Code 2023-0124916 and all future correspondence should clearly reference this number. **Please carefully review this letter.**

## **Ensuring Accurate Determinations When Using IPaC**

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in IPaC or the Northern Long-eared Bat Rangewide Determination Key (Dkey), invalidates this letter. ***Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.***

## **Determination for the Northern Long-Eared Bat**

Based upon your IPaC submission and a standing analysis, your project has reached the determination of "No Effect" on the northern long-eared bat. To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed

action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17).

Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no consultation with the Service is required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13].

### **Other Species and Critical Habitat that May be Present in the Action Area**

The IPaC-assisted determination for the northern long-eared bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Canada Lynx *Lynx canadensis* Threatened
- Gray Wolf *Canis lupus* Threatened
- Monarch Butterfly *Danaus plexippus* Candidate
- Piping Plover *Charadrius melodus* Endangered
- Red Knot *Calidris canutus rufa* Threatened
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

Critical Habitats:

- Canada Lynx *Lynx canadensis* Threatened

You may coordinate with our Office to determine whether the Action may affect the animal species listed above and, if so, how they may be affected.

### **Next Steps**

Based upon your IPaC submission, your project has reached the determination of “No Effect” on the northern long-eared bat. If there are no updates on listed species, no further consultation/coordination for this project is required with respect to the northern long-eared bat. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional coordination with the Service should take place to ensure compliance with the Act.

If you have any questions regarding this letter or need further assistance, please contact the Minnesota-Wisconsin Ecological Services Field Office and reference Project Code 2023-0124916 associated with this Project.

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**Action Description**

You provided to IPaC the following name and description for the subject Action.

**1. Name**

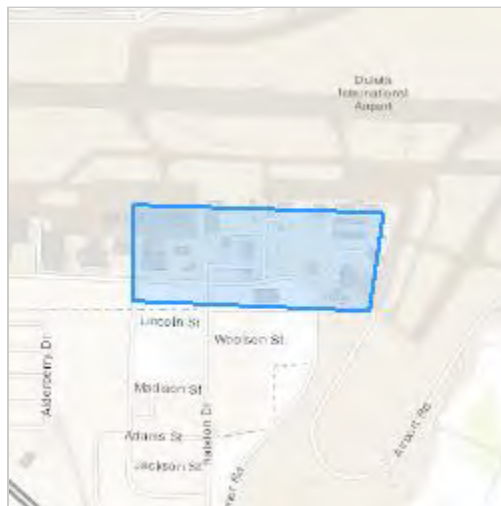
Air Traffic Control Tower (ATCT) Replacement

**2. Description**

The following description was provided for the project 'Air Traffic Control Tower (ATCT) Replacement':

The Duluth Airport Authority (DAA), as the sponsor of the Duluth International Airport (DLH or Airport), is proposing to replace the existing Air Traffic Control Tower (ATCT) with the construction of a new ATCT and Terminal Radar Approach Control (TRACON) facility at the site identified during the FAA's Airway Facilities Tower Integration Laboratory (Proposed Action).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@46.83785505,-92.19405712052016,14z>



## DETERMINATION KEY RESULT

Based on the information you provided, you have determined that the Proposed Action will have no effect on the Endangered northern long-eared bat (*Myotis septentrionalis*). Therefore, no consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required for those species.

## QUALIFICATION INTERVIEW

1. Does the proposed project include, or is it reasonably certain to cause, intentional take of the northern long-eared bat or any other listed species?

**Note:** Intentional take is defined as take that is the intended result of a project. Intentional take could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered or proposed species?

No

2. Do you have post-white nose syndrome occurrence data that indicates that northern long-eared bats (NLEB) are likely to be present in the action area?

Bat occurrence data may include identification of NLEBs in hibernacula, capture of NLEBs, tracking of NLEBs to roost trees, or confirmed acoustic detections. With this question, we are looking for data that, for some reason, may have not yet been made available to U.S. Fish and Wildlife Service.

No

3. Does any component of the action involve construction or operation of wind turbines?

**Note:** For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

4. Is the proposed action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

5. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

No

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6. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

**Note:** This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

*No*

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

*No*

8. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

*No*

9. Have you determined that your proposed action will have no effect on the northern long-eared bat? Remember to consider the [effects of any activities](#) that would not occur but for the proposed action.

If you think that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, answer “No” below and continue through the key. If you have determined that the northern long-eared bat does not occur in your project’s action area and/or that your project will have no effects whatsoever on the species despite the potential for it to occur in the action area, you may make a “no effect” determination for the northern long-eared bat.

**Note:** Federal agencies (or their designated non-federal representatives) must consult with USFWS on federal agency actions that may affect listed species [50 CFR 402.14(a)]. Consultation is not required for actions that will not affect listed species or critical habitat. Therefore, this determination key will not provide a consistency or verification letter for actions that will not affect listed species. If you believe that the northern long-eared bat may be affected by your project or if you would like assistance in deciding, please answer “No” and continue through the key. Remember that this key addresses only effects to the northern long-eared bat. Consultation with USFWS would be required if your action may affect another listed species or critical habitat. The definition of [Effects of the Action](#) can be found here: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

*No*

10. [Semantic] Is the action area located within 0.5 miles of a known northern long-eared bat hibernaculum?

**Note:** The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

**Automatically answered**

*No*

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11. Does the action area contain any caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating northern long-eared bats?

*No*

12. Does the action area contain or occur within 0.5 miles of (1) talus or (2) anthropogenic or naturally formed rock crevices in rocky outcrops, rock faces or cliffs?

*No*

13. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?

(If unsure, answer "Yes.")

**Note:** If there are trees within the action area that are of a sufficient size to be potential roosts for bats (i.e., live trees and/or snags  $\geq 3$  inches (12.7 centimeter) dbh), answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat can be found at: <https://www.fws.gov/media/northern-long-eared-bat-assisted-determination-key-selected-definitions>

*No*

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## **PROJECT QUESTIONNAIRE**

Will all project activities be completed by April 1, 2024?

*No*

---



## **IPAC USER CONTACT INFORMATION**

Agency: SEH INC  
Name: John Thayer  
Address: 418 W. Superior Street, Suite 200  
City: Duluth  
State: MN  
Zip: 54880  
Email: jthayer@sehinc.com  
Phone: 6128605087

## **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Federal Aviation Administration

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# United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Minnesota-Wisconsin Ecological Services Field Office  
3815 American Blvd East  
Bloomington, MN 55425-1659  
Phone: (952) 858-0793 Fax: (952) 646-2873

In Reply Refer To:  
Project Code: 2023-0124916  
Project Name: Air Traffic Control Tower (ATCT) Replacement

September 01, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

## To Whom It May Concern:

This response has been generated by the Information, Planning, and Conservation (IPaC) system to provide information on natural resources that could be affected by your project. The U.S. Fish and Wildlife Service (Service) provides this response under the authority of the Endangered Species Act of 1973 (16 U.S.C. 1531-1543), the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d), the Migratory Bird Treaty Act (16 U.S.C. 703-712), and the Fish and Wildlife Coordination Act (16 U.S.C. 661 *et seq.*).

### **Threatened and Endangered Species**

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and may be affected by your proposed project. The species list fulfills the requirement for obtaining a Technical Assistance Letter from the U.S. Fish and Wildlife Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

### **Consultation Technical Assistance**

Please refer to our [Section 7 website](#) for guidance and technical assistance, including [step-by-step instructions](#) for making effects determinations for each species that might be present and for specific guidance on the following types of projects: projects in developed areas, HUD, CDBG, EDA, USDA Rural Development projects, pipelines, buried utilities, telecommunications, and requests for a Conditional Letter of Map Revision (CLOMR) from FEMA.

We recommend running the project (if it qualifies) through our **Minnesota-Wisconsin Federal Endangered Species Determination Key (Minnesota-Wisconsin ("D-key"))**. A [demonstration video](#) showing how-to access and use the determination key is available. Please note that the Minnesota-Wisconsin D-key is the third option of 3 available d-keys. D-keys are tools to help Federal agencies and other project proponents determine if their proposed action has the potential to adversely affect federally listed species and designated critical habitat. The Minnesota-Wisconsin D-key includes a structured set of questions that assists a project proponent in determining whether a proposed project qualifies for a certain predetermined consultation outcome for all federally listed species found in Minnesota and Wisconsin (except for the northern long-eared bat- see below), which includes determinations of "no effect" or "may affect, not likely to adversely affect." In each case, the Service has compiled and analyzed the best available information on the species' biology and the impacts of certain activities to support these determinations.

If your completed d-key output letter shows a "No Effect" (NE) determination for all listed species, print your IPaC output letter for your files to document your compliance with the Endangered Species Act.

For Federal projects with a "Not Likely to Adversely Affect" (NLAA) determination, our concurrence becomes valid if you do not hear otherwise from us after a 30-day review period, as indicated in your letter.

If your d-key output letter indicates additional coordination with the Minnesota-Wisconsin Ecological Services Field Office is necessary (i.e., you get a "May Affect" determination), you will be provided additional guidance on contacting the Service to continue ESA coordination outside of the key; ESA compliance cannot be concluded using the key for "May Affect" determinations unless otherwise indicated in your output letter.

**Note: Once you obtain your official species list, you are not required to continue in IPaC with d-keys, although in most cases these tools should expedite your review.** If you choose to make an effects determination on your own, you may do so. If the project is a Federal Action, you may want to review our section 7 step-by-step instructions before making your determinations.

### **Using the IPaC Official Species List to Make No Effect and May Affect Determinations for Listed Species**

1. If IPaC returns a result of "There are no listed species found within the vicinity of the project," then project proponents can conclude the proposed activities will have **no effect** on any federally listed species under Service jurisdiction. Concurrence from the Service is not required for **no effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.
  2. If IPaC returns one or more federally listed, proposed, or candidate species as potentially present in the action area of the proposed project – other than bats (see below) – then project proponents must determine if proposed activities will have **no effect** on or **may affect** those species. For assistance in determining if suitable habitat for listed, candidate, or proposed species occurs within your project area or if species may be affected by project activities, you can obtain [Life History Information for Listed and Candidate Species](#) on our office website. If no impacts will occur to a species on the IPaC species list (e.g., there is no habitat present in the project area), the appropriate determination is **no effect**. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.
-

3. Should you determine that project activities **may affect** any federally listed, please contact our office for further coordination. Letters with requests for consultation or correspondence about your project should include the Consultation Tracking Number in the header. Electronic submission is preferred.

### **Northern Long-Eared Bats**

Northern long-eared bats occur throughout Minnesota and Wisconsin and the information below may help in determining if your project may affect these species.

This species hibernates in caves or mines only during the winter. In Minnesota and Wisconsin, the hibernation season is considered to be November 1 to March 31. During the active season (April 1 to October 31) they roost in forest and woodland habitats. Suitable summer habitat for northern long-eared bats consists of a wide variety of forested/wooded habitats where they roost, forage, and travel and may also include some adjacent and interspersed non-forested habitats such as emergent wetlands and adjacent edges of agricultural fields, old fields and pastures. This includes forests and woodlots containing potential roosts (i.e., live trees and/or snags  $\geq 3$  inches dbh for northern long-eared bat that have exfoliating bark, cracks, crevices, and/or hollows), as well as linear features such as fencerows, riparian forests, and other wooded corridors. These wooded areas may be dense or loose aggregates of trees with variable amounts of canopy closure. Individual trees may be considered suitable habitat when they exhibit the characteristics of a potential roost tree and are located within 1,000 feet (305 meters) of forested/wooded habitat. Northern long-eared bats have also been observed roosting in human-made structures, such as buildings, barns, bridges, and bat houses; therefore, these structures should also be considered potential summer habitat and evaluated for use by bats. If your project will impact caves or mines or will involve clearing forest or woodland habitat containing suitable roosting habitat, northern long-eared bats could be affected.

Examples of unsuitable habitat include:

- Individual trees that are greater than 1,000 feet from forested or wooded areas,
- Trees found in highly developed urban areas (e.g., street trees, downtown areas),
- A pure stand of less than 3-inch dbh trees that are not mixed with larger trees, and
- A monoculture stand of shrubby vegetation with no potential roost trees.

If IPaC returns a result that northern long-eared bats are potentially present in the action area of the proposed project, project proponents can conclude the proposed activities **may affect** this species **IF** one or more of the following activities are proposed:

- Clearing or disturbing suitable roosting habitat, as defined above, at any time of year,
- Any activity in or near the entrance to a cave or mine,
- Mining, deep excavation, or underground work within 0.25 miles of a cave or mine,
- Construction of one or more wind turbines, or
- Demolition or reconstruction of human-made structures that are known to be used by bats based on observations of roosting bats, bats emerging at dusk, or guano deposits or stains.

*If none of the above activities are proposed*, project proponents can conclude the proposed activities will have **no effect** on the northern long-eared bat. Concurrence from the Service is not required for **No**

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**Effect** determinations. No further consultation or coordination is required. Attach this letter to the dated IPaC species list report for your records.

*If any of the above activities are proposed*, and the northern long-eared bat appears on the user's species list, the federal project user will be directed to either the range-wide northern long-eared bat D-key or the Federal Highways Administration, Federal Railways Administration, and Federal Transit Administration Indiana bat/ Northern long-eared bat D-key, depending on the type of project and federal agency involvement. Similar to the Minnesota-Wisconsin D-key, these d-keys helps to determine if prohibited take might occur and, if not, will generate an automated verification letter.

*Please note:* On November 30, 2022, the Service published a proposal final rule to reclassify the northern long-eared bat as endangered under the Endangered Species Act. On January 26, 2023, the Service published a 60-day extension for the final reclassification rule in the Federal Register, moving the effective listing date from January 30, 2023, to March 31, 2023. This extension will provide stakeholders and the public time to preview interim guidance and consultation tools before the rule becomes effective. When available, the tools will be available on the Service's northern long-eared bat website (<https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis>). Once the final rule goes into effect on March 31, 2023, the 4(d) D-key will no longer be available (4(d) rules are not available for federally endangered species) and will be replaced with a new Range-wide NLEB D-key (range-wide d-key). For projects not completed by March 31, 2023, that were previously reviewed under the 4(d) d-key, there may be a need for reinitiation of consultation. For these ongoing projects previously reviewed under the 4(d) d-key that may result in incidental take of the northern long-eared bat, we recommend you review your project using the new range-wide d-key once available. If your project does not comply with the range-wide d-key, it may be eligible for use of the Interim (formal) Consultation framework (framework). The framework is intended to facilitate the transition from the 4(d) rule to typical Section 7 consultation procedures for federally endangered species and will be available only until spring 2024. Again, when available, these tools (new range-wide d-key and framework) will be available on the Service's [northern long-eared bat website](#).

### **Whooping Crane**

Whooping crane is designated as a non-essential experimental population in Wisconsin and consultation under Section 7(a)(2) of the Endangered Species Act is only required if project activities will occur within a National Wildlife Refuge or National Park. If project activities are proposed on lands outside of a National Wildlife Refuge or National Park, then you are not required to consult. For additional information on this designation and consultation requirements, please review "[Establishment of a Nonessential Experimental Population of Whooping Cranes in the Eastern United States.](#)"

### **Other Trust Resources and Activities**

*Bald and Golden Eagles* - Although the bald eagle has been removed from the endangered species list, this species and the golden eagle are protected by the Bald and Golden Eagle Act and the Migratory Bird Treaty Act. Should bald or golden eagles occur within or near the project area please contact our office for further coordination. For communication and wind energy projects, please refer to additional guidelines below.

*Migratory Birds* - The Migratory Bird Treaty Act (MBTA) prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when specifically authorized by the Service. The Service has the responsibility under the MBTA to proactively prevent the

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mortality of migratory birds whenever possible and we encourage implementation of [recommendations that minimize potential impacts to migratory birds](#). Such measures include clearing forested habitat outside the nesting season (generally March 1 to August 31) or conducting nest surveys prior to clearing to avoid injury to eggs or nestlings.

*Communication Towers* - Construction of new communications towers (including radio, television, cellular, and microwave) creates a potentially significant impact on migratory birds, especially some 350 species of night-migrating birds. However, the Service has developed [voluntary guidelines for minimizing impacts](#).

*Transmission Lines* - Migratory birds, especially large species with long wingspans, heavy bodies, and poor maneuverability can also collide with power lines. In addition, mortality can occur when birds, particularly hawks, eagles, kites, falcons, and owls, attempt to perch on uninsulated or unguarded power poles. To minimize these risks, please refer to [guidelines](#) developed by the Avian Power Line Interaction Committee and the Service. Implementation of these measures is especially important along sections of lines adjacent to wetlands or other areas that support large numbers of raptors and migratory birds.

*Wind Energy* - To minimize impacts to migratory birds and bats, wind energy projects should follow the Service's [Wind Energy Guidelines](#). In addition, please refer to the Service's [Eagle Conservation Plan Guidance](#), which provides guidance for conserving bald and golden eagles in the course of siting, constructing, and operating wind energy facilities.

#### **State Department of Natural Resources Coordination**

While it is not required for your Federal section 7 consultation, please note that additional state endangered or threatened species may also have the potential to be impacted. Please contact the Minnesota or Wisconsin Department of Natural Resources for information on state listed species that may be present in your proposed project area.

##### *Minnesota*

[Minnesota Department of Natural Resources - Endangered Resources Review Homepage](#)

Email: [Review.NHIS@state.mn.us](mailto:Review.NHIS@state.mn.us)

##### *Wisconsin*

[Wisconsin Department of Natural Resources - Endangered Resources Review Homepage](#)

Email: [DNRERReview@wi.gov](mailto:DNRERReview@wi.gov)

We appreciate your concern for threatened and endangered species. Please feel free to contact our office with questions or for additional information.

#### Attachment(s):

- Official Species List
  - USFWS National Wildlife Refuges and Fish Hatcheries
  - Migratory Birds
  - Wetlands
-

## **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Minnesota-Wisconsin Ecological Services Field Office**

3815 American Blvd East

Bloomington, MN 55425-1659

(952) 858-0793

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## PROJECT SUMMARY

Project Code: 2023-0124916  
Project Name: Air Traffic Control Tower (ATCT) Replacement  
Project Type: Airport - Maintenance/Modification  
Project Description: The Duluth Airport Authority (DAA), as the sponsor of the Duluth International Airport (DLH or Airport), is proposing to replace the existing Air Traffic Control Tower (ATCT) with the construction of a new ATCT and Terminal Radar Approach Control (TRACON) facility at the site identified during the FAA's Airway Facilities Tower Integration Laboratory (Proposed Action).

### Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@46.83785505,-92.19405712052016,14z>



Counties: St. Louis County, Minnesota

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## ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## MAMMALS

NAME	STATUS
Canada Lynx <i>Lynx canadensis</i> Population: Wherever Found in Contiguous U.S. There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/3652">https://ecos.fws.gov/ecp/species/3652</a>	Threatened
Gray Wolf <i>Canis lupus</i> Population: MN There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/4488">https://ecos.fws.gov/ecp/species/4488</a>	Threatened
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9045">https://ecos.fws.gov/ecp/species/9045</a>	Endangered
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/10515">https://ecos.fws.gov/ecp/species/10515</a>	Proposed Endangered

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## BIRDS

NAME	STATUS
Piping Plover <i>Charadrius melodus</i> Population: [Great Lakes watershed DPS] - Great Lakes, watershed in States of IL, IN, MI, MN, NY, OH, PA, and WI and Canada (Ont.) There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/6039">https://ecos.fws.gov/ecp/species/6039</a>	Endangered
Red Knot <i>Calidris canutus rufa</i> There is <b>proposed</b> critical habitat for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/1864">https://ecos.fws.gov/ecp/species/1864</a>	Threatened

## INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

## CRITICAL HABITATS

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Canada Lynx <i>Lynx canadensis</i> <a href="https://ecos.fws.gov/ecp/species/3652#crithab">https://ecos.fws.gov/ecp/species/3652#crithab</a>	Final

## USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

## MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

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1. The [Migratory Birds Treaty Act](#) of 1918.

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2. The [Bald and Golden Eagle Protection Act](#) of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

**The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern \(BCC\) list](#) or warrant special attention in your project location.** To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<b>Bald Eagle <i>Haliaeetus leucocephalus</i></b> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Dec 1 to Aug 31
<b>Black Tern <i>Chlidonias niger</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/3093">https://ecos.fws.gov/ecp/species/3093</a>	Breeds May 15 to Aug 20
<b>Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9399">https://ecos.fws.gov/ecp/species/9399</a>	Breeds May 15 to Oct 10
<b>Bobolink <i>Dolichonyx oryzivorus</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Jul 31
<b>Canada Warbler <i>Cardellina canadensis</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 20 to Aug 10
<b>Chimney Swift <i>Chaetura pelagica</i></b> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25

NAME	BREEDING SEASON
<p>Common Tern <i>Sterna hirundo hirundo</i>  This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	Breeds May 1 to Aug 31
<p>Connecticut Warbler <i>Oporornis agilis</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds Jun 15 to Aug 10
<p>Evening Grosbeak <i>Coccothraustes vespertinus</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 15 to Aug 10
<p>Golden Eagle <i>Aquila chrysaetos</i>  This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.  <a href="https://ecos.fws.gov/ecp/species/1680">https://ecos.fws.gov/ecp/species/1680</a></p>	Breeds Jan 1 to Aug 31
<p>Golden-winged Warbler <i>Vermivora chrysoptera</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/8745">https://ecos.fws.gov/ecp/species/8745</a></p>	Breeds May 1 to Jul 20
<p>Lesser Yellowlegs <i>Tringa flavipes</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/9679">https://ecos.fws.gov/ecp/species/9679</a></p>	Breeds elsewhere
<p>Long-eared Owl <i>asio otus</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/3631">https://ecos.fws.gov/ecp/species/3631</a></p>	Breeds Mar 1 to Jul 15
<p>Olive-sided Flycatcher <i>Contopus cooperi</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.  <a href="https://ecos.fws.gov/ecp/species/3914">https://ecos.fws.gov/ecp/species/3914</a></p>	Breeds May 20 to Aug 31
<p>Ruddy Turnstone <i>Arenaria interpres morinella</i>  This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA</p>	Breeds elsewhere
<p>Wood Thrush <i>Hylocichla mustelina</i>  This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.</p>	Breeds May 10 to Aug 31

## PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the

FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

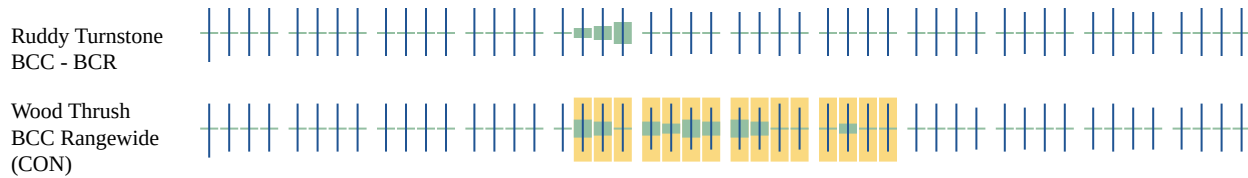
### No Data (—)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

## MIGRATORY BIRDS FAQ

**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering or migrating in my area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### **Details about birds that are potentially affected by offshore projects**

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

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Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### **Proper Interpretation and Use of Your Migratory Bird Report**

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## **WETLANDS**

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

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## **IPAC USER CONTACT INFORMATION**

Agency: SEH INC

Name: John Thayer

Address: 418 W. Superior Street, Suite 200

City: Duluth

State: MN

Zip: 54880

Email: [jthayer@sehinc.com](mailto:jthayer@sehinc.com)

Phone: 6128605087

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**Appendix F**  
**Architectural History Survey Reports**



**106GROUP**

*Connecting People + Place + Time*

# RECONNAISSANCE ARCHITECTURAL HISTORY SURVEY FOR THE DULUTH INTERNATIONAL AIRPORT MASTER PLAN PROJECT

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Duluth, St. Louis County, Minnesota

September 2021



# RECONNAISSANCE ARCHITECTURAL HISTORY SURVEY FOR THE DULUTH INTERNATIONAL AIRPORT MASTER PLAN PROJECT

Duluth, St. Louis County, Minnesota

SHPO File No. Pending  
106 Group Project No. 2510

**SUBMITTED TO:**

SEH  
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St. Paul, MN 55106

**SUBMITTED BY:**

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September 2021

## MANAGEMENT SUMMARY

During April through September 2021, 106 Group conducted a reconnaissance architectural history survey for the Duluth Airport Master Plan Project (Project). The survey was conducted to assist in development of a master plan to inform future planning and redevelopment in the hangar area at the Duluth International Airport. Future development at the airport will require approval from the Federal Aviation Administration (FAA) and, therefore, would need to comply with Section 106 of the National Historic Preservation Act of 1966, as amended, as well as applicable state mandates governing cultural resources, including the Minnesota Field Archaeology Act and the Minnesota Historic Sites Act. This survey was conducted under contract for SEH. A concurrent intensive architectural history survey for this Project was conducted, with funding coming from a separate source and, therefore, a separate report was prepared (Miller et al. 2021).

The Project area is located in Sections 1 and 2, Township 50, Range 15W, Duluth, St. Louis County, Minnesota. An appropriate area of potential effect (APE) for architectural history accounts for any physical, auditory, atmospheric, or visual impacts to historic properties. This survey was conducted to inform future planning and redevelopment in the hangar area, and thus specifics of the redevelopment are currently unknown. Therefore, the recommended architectural history APE is the same as the Project area. The APE includes approximately 2.7 acres (1.1 hectares [ha]). The reconnaissance architectural history survey consisted of historical research; a field survey to identify and document properties that are 45 years of age or older and have not previously been evaluated within the last 10 years within the APE; and an evaluation for potential eligibility for listing in the National Register of Historic Places (NRHP). Saleh Miller, M.S., served as principal investigator for architectural history.

During the reconnaissance architectural history survey, 106 Group identified 12 properties 45 years in age or older within the APE that had not previously been evaluated. Initial research suggested that Hangar 101 (SL-DUL-3641) may be potentially eligible for listing in the NRHP, and therefore, an intensive architectural history survey was undertaken from August to September 2021. The intensive evaluation was reported separately (Miller et al. 2021). The remaining 11 properties are not recommended for further intensive survey due to a lack of historical significance and/or a loss of integrity.

“I certify that this investigation was conducted and documented according to the Secretary of the Interior’s Standards and Guidelines and that the report is complete and accurate to the best of my knowledge.”



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Signature of Principal Investigator

September 10, 2021

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Date

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# 1.0 INTRODUCTION







During April through September 2021, 106 Group conducted a reconnaissance architectural history survey for the Duluth Airport Master Plan Project (Project). The survey was conducted to assist in development of a master plan to inform future planning and redevelopment in the hangar area at the Duluth International Airport. Future development at the airport will require approval from the Federal Aviation Administration (FAA) and, therefore, would need to comply with Section 106 of the National Historic Preservation Act of 1966, as amended, as well as applicable state mandates governing cultural resources, including the Minnesota Field Archaeology Act and the Minnesota Historic Sites Act. This survey was conducted under contract for SEH. A concurrent intensive architectural history survey for this Project was conducted, with funding coming from a separate source and, therefore, a separate report was prepared (Miller et al. 2021).

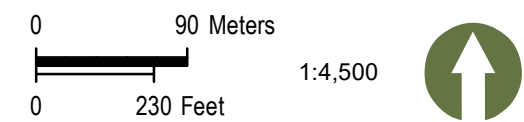
The Project area is located in Sections 1 and 2, Township 50, Range 15W, Duluth, St. Louis County, Minnesota (Figure 1). An appropriate area of potential effect (APE) for architectural history accounts for any physical, auditory, atmospheric, or visual impacts to historic properties. This survey was conducted to inform future planning and redevelopment in the hangar area, and thus specifics of the redevelopment are currently unknown. Therefore, the recommended architectural history APE is the same as the Project area. The APE includes approximately 2.7 acres (1.1 hectares [ha]). The reconnaissance architectural history survey consisted of historical research; a field survey to identify and document properties that are 45 years of age or older and have not previously been evaluated within the last 10 years within the APE; and an evaluation for potential eligibility for listing in the National Register of Historic Places (NRHP). Saleh Miller, M.S., served as principal investigator for architectural history.

The following report describes Project methodology, previous investigations, historic contexts, results, and recommendations for the Project area. Inventory forms have been prepared and submitted separately to the Minnesota State Historic Preservation Office (SHPO). A list of Project personnel can be found in the Appendix A.



**Duluth International Airport Master Plan Project Reconnaissance Architectural History Survey**  
 Duluth, St. Louis County, Minnesota

-  Project Area / Architectural History APE
-  Previously Inventoried Property
-  No Longer Extant
-  Not of Age
-  Not Recommended for Intensive Survey
-  Recommended Eligible



Project Location, APE, and Results



## 2.0 METHODS

### 2.1 Objectives

The primary objective of the architectural history survey was to determine whether any properties within the study area that are 45 years in age or older and have not previously been evaluated within the last 10 years are potentially eligible for listing in the NRHP. All work was conducted in accordance with the SHPO *Historic and Architectural Survey Manual* (SHPO 2017) and *The Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation* [48 Federal Register 44716-44740] (National Park Service [NPS] 1983).

### 2.2 Area of Potential Effect

The APE for architectural history accounts for any direct (physical) or indirect (auditory, atmospheric, or visual) effects to historic properties. This survey was conducted to inform future planning and redevelopment in the hangar area, and thus specifics of the redevelopment are currently unknown. Therefore, the recommended architectural history APE is the same as the Project area.

### 2.3 Background Research

In May, staff from 106 Group conducted background research remotely at SHPO for information on previously inventoried properties and on surveys previously conducted within the recommended architectural history APE.<sup>1</sup> Research included a review of aerial photographs; historic maps; tax assessor records; newspaper articles; and histories of the Duluth airport, Air National Guard unit, and Duluth Air Force Base.

### 2.4 Field Methods

The reconnaissance architectural history survey of the Project area was conducted on May 25, 2021. Erin Que, M.A., and Steve Gallo, PhD, conducted the fieldwork (see Appendix A for a list of Project personnel). Properties identified for survey are located within the APE, are 45 years of age or older, and have not previously been evaluated within the last 10 years. During the reconnaissance survey, field notes and digital photographs were taken of each property identified for survey.

### 2.5 Inventory Form

A Minnesota Individual Property Inventory Form was prepared for each surveyed property for submittal to SHPO for its review.

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<sup>1</sup> For background research regarding known historic properties and previously conducted cultural resource surveys, we rely primarily on the information on file at SHPO. 106 Group cannot guarantee the accuracy and reliability of the data provided.

## 2.6 Evaluation

Upon completion of the fieldwork, the potential eligibility of each property for listing in the NRHP was assessed based on the property's significance and integrity. The NRHP criteria, summarized below, were used to help assess the potential significance of each property:

- Criterion A – association with the events that have made a significant contribution to the broad patterns of our history;
- Criterion B – association with the lives of persons significant in our past;
- Criterion C – embodiment of the distinctive characteristics of a type, period, or method of construction; representation of the work of a master; possession of high artistic values; or representation of a significant and distinguishable entity whose components may lack individual distinction; or
- Criterion D – potential to yield information important to prehistory or history (NPS 1997 [1995]).

The NPS has identified seven aspects of integrity to be considered when evaluating the ability of a property to convey its potential significance: location, design, setting, materials, workmanship, feeling, and association. The integrity of these properties was assessed in regard to these seven aspects (NPS 1997 [1995]).

## 3.0 LITERATURE REVIEW

### 3.1 Previous Architectural History Studies

No architectural history survey has previously been conducted and no historic properties have previously been inventoried within the current recommended architectural history APE. However, because this survey is being conducted to support the development of a master plan to inform future planning and redevelopment in the hangar area at the Duluth International Airport, previous studies conducted within the vicinity of the Project area have been notated here (see Figure 1; Table 1).

In 2006, 106 Group conducted a cultural resources survey of the Duluth Air National Guard Base (Bradley et al. 2006). This survey documented all properties at the Duluth International Airport that were owned or leased by the 148th Fighter Wing of the Minnesota Air National Guard in 2006, including five buildings that are located within the vicinity of the Project area (Figure 1; Table 1).

Additionally, as part of the concurrent intensive architectural history evaluation of Hangar 101 (SL-DUL-3641), the property has been recommended as eligible for listing in the NRHP (Miller et al. 2001) (Figure 1; Table 1).

Table 1. Previously NRHP-Listed, Eligible, or Inventoried Architectural History Properties Within the APE

Inventory No.	Property Name	Address	NRHP Status
SL-DUL-2603	Maintenance Hangar / Building 103	4960 Malstrom Street	Not Eligible
SL-DUL-2609	Commissary / Building 206	4970 Airport Road	No longer extant
SL-DUL-2633	Armament and Electronics Shop / Building 304	304 Malstrom Street	Not Eligible
SL-DUL-2634	Warehouse / Building 311	xxx Airport Road	Not Eligible
SL-DUL-3641	Hangar 101	4931 Airport Road	Recommended Eligible
SL-HER-005	Precision Measurement Equipment Laboratory / Building 385	4437 Airport Approach Road	Not Eligible

### 3.2 Property-Specific Historic Context

For the purpose of this architectural history survey, and the concurrent intensive architectural history survey for the Duluth International Airport Master Plan Project (Miller et al. 2021), the following property-specific historic context was developed: “History of the Duluth International Airport, 1929 – present.”

#### 3.2.1 History of the Duluth International Airport, 1929 – present

The Duluth International Airport (DIA) is a city-owned, public airport that is jointly used as a civil and military airport. It is located six miles northwest of downtown Duluth, Minnesota.

### 3.2.1.1 Establishment of DIA & Air Mail Service

DIA was originally established as the William-Johnson Municipal Airport (WJMA), which played a significant role in the early history of Minnesota-based Northwest Airlines, a major United States (U.S.) airline that was founded in 1926 and merged with Delta Airlines in 2008 (Sandvik 1986:93; Steenland 2008). Commercial flight in the U.S. was severely limited in the 1920s due to a combination of slow aircraft and preexisting railway networks that gave the public little incentive to travel by air.

Consequently, early air transportation in the U.S. was almost exclusively devoted to airmail deliveries directly run by the federal government. The effort to establish a national airmail network was boosted and augmented in 1925 when Congress passed the Air Mail Act, which authorized the Postmaster General to determine airmail routes, contract with private carriers, and pay them a subsidy. This caused the United States Postal Service (USPS) to seek bids from private companies to transport mail over their Contract Air Mail routes (CAMs) from late 1925 to early 1926. Northwest Airlines (called Northwest Airways, Inc., at the time) was awarded a contract for CAM #9, which ran from Chicago to the Twin Cities via Milwaukee and La Crosse. Such a contract was a vital means of keeping Northwest Airlines financially viable at a time when no airline could make a profit by carrying passengers alone (Sandvik 1986:89-95).

With CAM #9 secured, Northwest Airlines sought to expand its services for both airmail and passengers. For the remainder of the decade, the airline added more routes throughout the region. It became an early international airline in 1928 when it began weekly services between the Twin Cities and Winnipeg via Fargo (though the Fargo-Winnipeg service was suspended after three months due to opposition from the Canadian government). Services were also added to Green Bay, Fond du Lac, Oshkosh, Neenah-Menasha, and Appleton, Wisconsin that year. Flights to Rochester, Minnesota, began in 1929. While passenger numbers were slowly increasing during this period, profit was still derived from airmail contracts. As a result, these services carried passengers and mail cargo simultaneously (Northwest Airlines History Center 2021).

Duluth's civic leaders sought to stimulate the city's economy by establishing an airmail route to the city. While the city's economy was robust in the 1880s and 1890s from the shipping boom, it began to show signs of slowing by the 1920s (Eubank 1991:1-2). Community leaders of the era not only considered it a point of civic pride to be included in the USPS airmail routes, but there was a strong conviction among the commercial class that the new form of transportation would stimulate business much as the railways had (Sandvik 1986:89). The thought process was no different in Duluth. When the city began holding public meetings on the idea of issuing up to \$200,000 in bonds to establish a municipal airport in 1928, the plan quickly gained the support of the Duluth Chamber of Commerce as well as over 100 of the city's leading businessmen (Associated Press 5 June 1928:9; The Minneapolis Star 15 June 1928:7). The city purchased 640 acres of property from St. Louis County to establish a municipal airport in 1929 and held a public celebration to mark the completion of an aircraft hangar and administrative building on the site in 1930 (RS&H 2015:33; Associated Press 14 April 1930:13; The Minneapolis Tribune 14 September 1930:11). The airport featured three 2,650-foot turf runways. The runways were identified as Runway 3-21; Runway 9-27; and Runway 13-31. Runway 9-27 ran east-west, Runway 3-31 ran north-northeast to south-southwest, and Runway 13-31 ran northwest to southeast. All three runways intersected in the southeast quadrant of the airport (RS&H 2015:33). The three turf runways were paved and extended in

1942, with each runway measuring 4,000 feet long by 150 feet wide. Runways 9-27 and Runway 3-21 were extended by the U.S. Army Corps of Engineers in 1945, to 5,660 feet long (RS&H 2015:33).

The opening of DIA did not invigorate Duluth's economy as civic leaders had hoped, although it proved beneficial to Northwest Airlines. The city's economic growth stagnated along with the rest of the country during the Great Depression of the 1930s and was only revitalized by the production demands of World War II (Eubank 1991:2, 32). The USPS awarded Northwest Airlines a new airmail contract for a route between the Twin Cities and Duluth, in addition to one between Fargo and Bismarck, in May of 1931 (The Minneapolis Tribune 12 May 1931:21). Passenger services were offered on the Twin Cities-Duluth route at the same time. The airline initially intended to land on Lake Superior, purchasing two 8-passenger Sikorsky S-38 amphibian aircraft to service the route, but they switched the vehicles for a Hamilton model and began landing at DIA in December of 1931 when ice on the lake made water landings impractical and unsafe (Northwest Airlines History Center 2021; The Minneapolis Tribune 12 May 1931:21). Northwest's services to Duluth lasted until 1933, when the federal government took control of all airmail routes amidst suspicions of corruption. The airline was able to regain most of its routes the following year, but Duluth was not among them. Duluth remained without any airmail services as late as August of 1935 (Northwest Airlines History Center 2021; Associated Press 28 August 1935:2). Northwest Airlines did not resume passenger service to the airport until 1940, when three 10-passenger planes carrying public and company officials took off from Minneapolis and landed in Duluth within an hour. They were greeted by a large crowd that had gathered to celebrate the route's inauguration (RS&H 2015:33; The Minneapolis Tribune 2 June 1940:31).

Despite the discontinuation of the Twin Cities-Duluth airmail route after only two years, it was nonetheless a critical component of Northwest Airline's financial success. It was one of several regional airmail routes that provided the company with the revenue needed to steadily expand its services westward and survive the economic tumult of the Great Depression. As a result, Northwest Airlines was able to strengthen its dominant position within the airline industry in the decade prior to World War II and thrive throughout the remainder of the twentieth century (Sandvik 1986:98).

### 3.2.1.2 DIA and Cold War Defense

The DIA played a notable role in the defense of the U.S., particularly during the Cold War period, through the establishment of both an Air National Guard unit as well as a U.S. Duluth Air Force Base at the DIA.

In 1948, an Air National Guard (ANG) unit was established in Duluth through the reactivation of the 179th Fighter Squadron, which was part of the 133rd Fighter Group that was headquartered in St. Paul. World War II veterans were recruited to join the new ANG unit in Duluth (Bradley et al. 2006:13). The ANG headquarters are located in the northeast quadrant of the airport, on the east side of Runway 3-21. The creation of the ANG unit coincided with the build-up of air defense capabilities at the beginning of the Cold War. At its inception, the 179th Fighter Squadron's main mission was to intercept bombers that might fly through Duluth and to identify unknown aircraft in the region near the U.S./Canada border. As Cold War tensions rose, the ports in Duluth were identified as resources that needed the highest priority for protection, as Duluth was the vital head of shipping on the Great Lakes (Bradley et al. 2006:18).

Permanent facilities were built for the ANG between 1948 and 1951, and included taxiways, a main hangar, a heating plant, a sewage disposal facility, a water tank, the squadron operations and headquarters building, and more (Bradley et al. 2006:13-14). Air defense facilities and operations were scaled back in Minnesota in the 1970s, however, the ANG still operates to this day out of the DIA and is serviced by the 148th Fighter Wing of the Minnesota Air National Guard.

The U.S. Air Force also contributed to the development of the DIA. After World War II ended, the U.S. Air Force constructed permanent and semi-permanent buildings on the airport grounds, in the south/southwest area of the airport, south of Runway 9-27, and played a key role in the development of much of this area of the airport grounds. In August of 1950, Air Force officials considered the Williamson-Johnson Airport at Duluth as a location for a Fighter Squadron. Soon after the ANG unit at Duluth was called to active service, in 1951 the Central Air Defense Force of the Aerospace Defense Command (ADC) took jurisdiction over the airport at Duluth. At that time, the Air Force also had control of the Duluth ANG facilities while that unit was federalized. The Air Force began to develop a base in the area, located south of the main runway at the airport. The first facilities for the Air Base, constructed during 1951 and 1952, included a hangar, temporary shacks next to the hangar, a motor service building, a crash and rescue station, and a heating plant. Within another year, a ground control approach and instrument landing system, aircraft hangars, exchange building, ammunition storage area, runway and taxiway extensions and improvements, mess facility, administration buildings, readiness building, and communication and utility systems were completed. A new base headquarters building was completed in 1954. A family housing facility was added to the base in 1956 (Bradley et al. 2006:20).

The Duluth Air Base was expanded in 1957 with the development of the Semi-Automatic Ground Environment (SAGE) facility, which was located west of the main portion of the base. The SAGE facility increased the base's role in the air defense mission and was responsible for monitoring a large area of the northern U.S. and Canada. The Duluth Air Base also was home to units who worked on strategic national defense operations like the North American Aerospace Defense (NORAD), in partnership with the Royal Canadian Air Force, and the Duluth Air Defense Sector (DUADS), which became operational in 1959 (Bradley et al. 2006:21). For much of the Cold War, Air Force Fighter Interceptor Squadrons (FIS) stood at alert on bases in Duluth and Minneapolis, ready to protect the U.S. from attack from foreign enemies (Bradley et al. 2006:20). During the Cold War, the Duluth Air Base had missions that were related to, but separate from, those of the Air National Guard. The main mission of the units stationed at the Duluth Air Base was air defense.

Through reorganization and reassignment of defense missions, the Duluth Air Base was deactivated in 1981 by the United States Air Force (Bradley et al. 2006:21). The ANG inherited portions of the Duluth Air Base and much of the area was converted into a Federal Prison Camp, which is still operational. The southwest quadrant of the airport is now the core area for general aviation, air cargo, and special aviation service organizations (RS&H:41-42).

### 3.2.1.3 Present-day DIA

In 1951, an air traffic control tower was erected and the original passenger terminal was constructed southwest of the intersection of Runways 3-21 and 9-27 in 1954. The airport was renamed DIA in 1961.

In 1974, a 52,400-square-foot passenger terminal building and U.S. customs facility was constructed to the southeast of the runway intersection, east of the terminal constructed in 1954. Consequently, Runway 13-31 was shortened to 2,578 feet to accommodate building construction, then subsequently converted into a taxiway, and eventually closed in 1980. The former terminal building, located southwest of the runway intersection, was converted for use as offices for general aviation, and for use by the FAA and the U.S. Weather Bureau. In 1989, the three-story 1974 passenger terminal building was remodeled to form a single enclosure totaling 106,000 square feet (RS&H 2015:33).

After September 11, 2001, new federal security requirements deemed the passenger terminal functionally obsolete as the tails of parked airplanes extended too close to the runway airspace surfaces. Construction began on a new terminal in 2010, which opened in 2013, and included the replacement passenger terminal, an expanded apron, and new auto circulation and vehicle parking facilities. The new terminal was named the *James L. Oberstar Terminal* after late U.S. Representative Jim Oberstar, who represented the congressional district the airport lies within from 1975-2011 (RS&H 2015:33).

The DIA is Minnesota's third busiest airport, after Minneapolis-St. Paul International Airport (MSP) in Minneapolis, and Rochester International Airport in Rochester. Three airlines service the airport: Delta Airlines, United Airlines, and Sun Country Airlines, however, the largest sources of air traffic comes from general aviation, which is civilian aircraft not associated with commercial air transport. The Duluth Air National Guard Base is still located at the airport, as well as airplane manufacturer Cirrus, which makes single-engine light aircrafts.






## 4.0 RESULTS

Staff from 106 Group conducted a reconnaissance architectural history survey of the recommended study area on May 25, 2021. Saleh Miller, M.S., served as principal investigator (see Appendix A for a list of Project personnel).

During the reconnaissance architectural history survey, 106 Group identified 12 properties 45 years in age or older within the APE that had not previously been evaluated. Initial research suggested that Hangar 101 (SL-DUL-3641) may be potentially eligible for listing in the NRHP, and therefore, an intensive architectural history survey was undertaken and reported separately (Miller et al. 2021). The remaining 11 properties are not recommended for further intensive survey due to a lack of historical significance and/or a loss of integrity (Figure 1; Table 2). One property within the recommended architectural history APE is less than 45 years of age, and therefore, does not meet the criteria for survey (Figure 1; Table 3).

Table 2. Properties Not Recommended for Further Intensive Survey

Inventory No.	Property Name	Address	Date	Thumbnail
SL-DUL-3636	Hangar 622	4525 Airport Approach Road	c. 1930	
SL-DUL-3637	Hangar	4525 Airport Approach Road	c. 1975	
SL-DUL-3638	Building 616 / FAA Air Traffic Control Tower	4525 Airport Approach Road	1951	

Inventory No.	Property Name	Address	Date	Thumbnail
SL-DUL-3639	Hangar 608	4525 Airport Approach Road	c. 1970	
SL-DUL-3640	Building 306	4550 Stebner Road	c. 1960	
SL-DUL-3642	Hangar 107	4525 Airport Approach Road	1960	
SL-DUL-3643	Hangar 106	4525 Airport Approach Road	c. 1960	
SL-DUL-3644	Hangar 105 / EAA 272	4525 Airport Approach Road	c. 1960	
SL-DUL-3645	Hangar 104	4926 Malstrom Steet	c. 1960	




Inventory No.	Property Name	Address	Date	Thumbnail
SL-DUL-3646	Building 305 / Hydro Solutions of Duluth	4845 Lackland Street	c. 1960	
SL-DUL-3647	Building 308 / Duluth Composite Squadron, Civil Air Patrol	4848 Lackland Street	1960	

Table 3. Properties Not of Age in the APE

Field No.	Property Name	Address	Date <sup>2</sup>	Thumbnail
7	Hangar 108	4525 Airport Approach Road	2001	

<sup>2</sup> Build dates were based on St. Louis County Assessor's data and aerial photographs.

## 5.0 RECOMMENDATIONS

During the reconnaissance architectural history survey, 106 Group identified 12 properties 45 years in age or older within the APE that had not previously been evaluated. Initial research suggested that Hangar 101 (SL-DUL-3641) may be potentially eligible for listing in the NRHP, and therefore, an intensive architectural history survey was undertaken and reported separately (Miller et al. 2021). The remaining 11 properties are not recommended for further intensive survey due to a lack of historical significance and/or a loss of integrity. No further architectural history work is recommended for the 11 properties documented as part of this reconnaissance survey.

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**APPENDIX A: PROJECT PERSONNEL**

# LIST OF PERSONNEL

## **Project Manager**

Saleh Miller, M.S.

## **Principal Investigator**

Saleh Miller, M.S.

## **Historians**

Kelli Andre Kellerhals, M.S.

Steve Gallo, PhD

Saleh Miller, M.S.

Erin Que, M.A.

## **Graphics and GIS**

Molly McDonald, MGIS



# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Hangar 622  
Other Names: \_\_\_\_\_  
Inventory No: SL-DUL-3636  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4525 Airport Approach Rd  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.337873

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	1		SE	SW

UTM Zone	Easting	Northing
15N	561789.82158	5187472.55156

### Urban:

Subdivision: DULUTH CITY OF  
Block(s): \_\_\_\_\_  
Lot(s): \_\_\_\_\_

Property Identification Number (PIN): 010-2747-00120

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Brick

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes *If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: c. 1930

Other Significant Construction Dates: c. 1940, c. 1945 *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerials & Newspaper Article

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Hangar 622 is located at the Duluth International Airport (DIA), sited northeast of Airport Road on the southwest side of the airport. This two-story rectangular hangar rests on a concrete foundation, has brick walls, and has a barrel-vaulted roof with metal coping. The northeast elevation features six large, steel panel doors with windows that have been covered with a combination of wood and tar paper. The original sixteen-light windows are visible in sections where the tar paper has been removed. There are two single-leaf doors with four lights within the southeastern- and northwestern-most panel doors. The southeastern elevation features a two-story brick wing with a flat roof and metal coping. This wing features a single-leaf steel door, a single leaf door that has been covered with wood, nine-light steel windows, and a rectangular brick chimney where the northwest corner of its roof meets the barrel-vaulted roof of the main hangar. The southwestern elevation features three fifteen-light steel windows with awning insets, three windows that have been infilled with concrete blocks, and four brick pilasters with concrete caps that separate the windows into pairs. The northwestern elevation features what appear to be four large bay windows that have been infilled with concrete block. Five brick pilasters with concrete caps separate each infilled window. There is a two-story brick addition with a flat roof and metal coping on the southeast elevation of the main hangar that was constructed circa 1940 (McKenzie 1930; MNHS c. 1940; University of Minnesota [UofM] 1939, 1948). It has a single-leaf steel door and a single-leaf wood door with four lights, both located under a metal awning, on its southeast elevation. There is also a single-leaf steel door with side lights and transom located under a metal awning on its northeastern elevation. The first story of the addition features a combination of one- two- and three-light aluminum fixed window, as well as aluminum awning windows. The second story features a combination twelve- and nine-light steel windows with awning insets that are original to the building. There is also a one-story brick addition with a flat roof on the southwest elevation of the main hangar that was constructed circa 1945 (UofM 1939, 1948). It features three single-leaf steel doors, double-hung aluminum windows, nine-light steel windows, and twenty-light steel windows.

### Integrity:

This property retains excellent integrity of location. The integrity of the setting has been significantly compromised by extension and paving of runways as well as the addition of many buildings in its vicinity since its initial construction. The integrity of the design has been slightly compromised by 1940s era additions on the southeast and southwest elevations. The integrity of materials and workmanship has been compromised by the loss of historic windows, the addition of more modern fenestration, and the covering of the hangar doors with tarpaper and wood. The integrity of feeling and association are poor due to the fact that the building is no longer used to store aircraft and the development of the surrounding area minimizes the central role it played in the foundation of DIA. Overall, the building retains fair integrity.

## Statement of Significance

### Property History:

Hangar 622 was built between 1929, when the City of Duluth purchased 640 acres of property from St. Louis County to establish the William-Johnson Municipal Airport (WJMA), and 1939, when the structure is first visible in aerial photographs (RS&H 2015:33; UofM 1939). This makes it one of the first permanent buildings constructed on the airfield. Contemporary newspaper reports note that the public dedication of the WJMA on September 13, 1930, centered on the completion of a city-owned hangar and administration building (Associated Press 1930; Star Tribune 1930). Given that Hangar 622, with "DULUTH" emblazoned on its roof to identify the airfield for pilots, is one of only two buildings visible in the 1939 aerial, it can confidently be assumed that it is original city-owned hangar completed in 1930 (UofM 1939). This hangar served as the central hub of private, public, and commercial flight at WJMA during the early years of its existence. It was used by the United States Postal Service (USPS), after it established an airmail route through Duluth in 1930, and Northwest Airlines, once it began service to Duluth in 1940, to store and service aircraft. It was also the cornerstone upon which subsequent development of their airfield was made. Paved taxiways were placed directly to the north of the hangar between 1939 and 1948. It was the only large hangar on the airfield

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

when the original turf runways were paved in 1942 and later extended in 1945. It remained the most prominent hangar until the Minnesota Air National Guard constructed its permanent facilities east of the field in 1948 (UofM 1939; UofM 1948; Nationwide Environmental Title Research, LLC [NETR] 1952; RS&H 2015: 33). The United States Air Force likely used the hangar when it took control of DIA in 1951, as much of its activity was focused in the southern portion of the airport (Bradley 2006: 20). The Hangar is currently leased to FedEx and used as a sorting facility (RS&H 2015:52).

Hangar 622 displays the characteristics of rectangular, single-unit hangars that were commonly built on airfields across the United States during the 1920s and 1930s, when commercial flight was becoming more prevalent. These hangars were designed to be multi-purpose, providing ample space to both store and repair small aircraft under a single roof as well as separate storage space for maintenance equipment (Sherman 1930:769-771). In Hangar 622, this can be seen by the two-story section on the southeast elevation that is connected to the large barrel roof hangar. Historic photographs and aerial photographs show that the original hangar was modified by a two-story addition on the southeast elevation constructed around 1940 as well as a single-story addition on the southwest elevation constructed circa 1945 (McKenzie 1930; MNHS c. 1940; UofM 1939; UofM 1948).

## Significance:

Hangar 622 was evaluated within the “History of the Duluth International Airport, 1929-present” historic context prepared by the 106 Group (Gallo et al. 2021). The property was one of the first buildings constructed at WJMA, serving as its only large hangar as late as 1948. While this makes the structure foundational to the history of DIA’s development, it did not play a significant role in the history of aviation in the region or the nation. The hangar was likely used by the USPS in support of its Duluth airmail route, but this was not part of the main transcontinental airmail route and, therefore, was not a significant element of that service’s history. Likewise, Hangar 622 likely provided support services for Northwest Airlines when they began service at the airport in 1940, however it did not play a major role in the development of regional commercial air travel. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

This property does not have distinctive characteristics of an architectural style, does not embody a specific time period, and does not serve as the highest or best example of a method of construction. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

## Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Associated Press

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

1930 Will Dedicate Airport at Duluth Coming Labor Day. St. Cloud Times 14 April: 13. Saint Cloud.

Bradley, Betsy H., et. al

2006 Cultural Resources Survey of the Duluth Air National Guard Base, Duluth, St. Louis County, Minnesota. Prepared by The 106 Group, St. Paul, Minnesota. On file at the State Historic Preservation Office, St. Paul, Minnesota.

Fox, Duncan

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

McKenzie, Hugh

1932 Three Curtiss Jennys flying over Williamson-Johnson Municipal Airport hangar, Duluth. Minnesota Historical Society.

<http://collections.mnhs.org/cms/display?irn=10735095&return=brand%3Dcms%26q%3Dduluth%2520airport%26startindex%3D26>, accessed June 3, 2021.

Minnesota Historical Society [MNHS]

c. 1940 Airport hangar and field, Duluth. Minnesota Historical Society Collections Online. Electronic document, <http://collections.mnhs.org/cms/display?irn=10811124&return=q%3Dduluth%2520airport%26startindex%3D26>, accessed June 3, 2021.

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2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

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1930 Airplane Hangars: Planning, Fire Protection, Construction Data. Architectural Forum 53(6): 769-778.

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1930 25,000 Attend Dedication of \$300,000 Duluth Airport. 14 September: 11. Minneapolis, Minnesota.

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1948 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document, <https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

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1999 Cold War Infrastructure for Air Defense: The Fighter and Command Missions. Electronic document,

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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<http://docshare04.docshare.tips/files/9112/91128529.pdf>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-3636 - 5/25/2021 - Northeast Elevation, Facing Southwest



**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



SL-DUL-3636 - 5/25/2021 - Northeast & Northwest Elevations, Facing West-Southwest

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---



SL-DUL-3636 - 5/25/2021 - Northeast & Southeast Elevations, Facing South

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---



SL-DUL-3636 - 5/25/2021 - Southwest Elevation, Facing Northeast

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



SL-DUL-3636 - 5/25/2021 - Southwest & Northwest Elevations, Facing North

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-3636 - 9/9/2021 - c. 1940 Photo of Hangar 622, Facing Southwest (MNHS c. 1940)

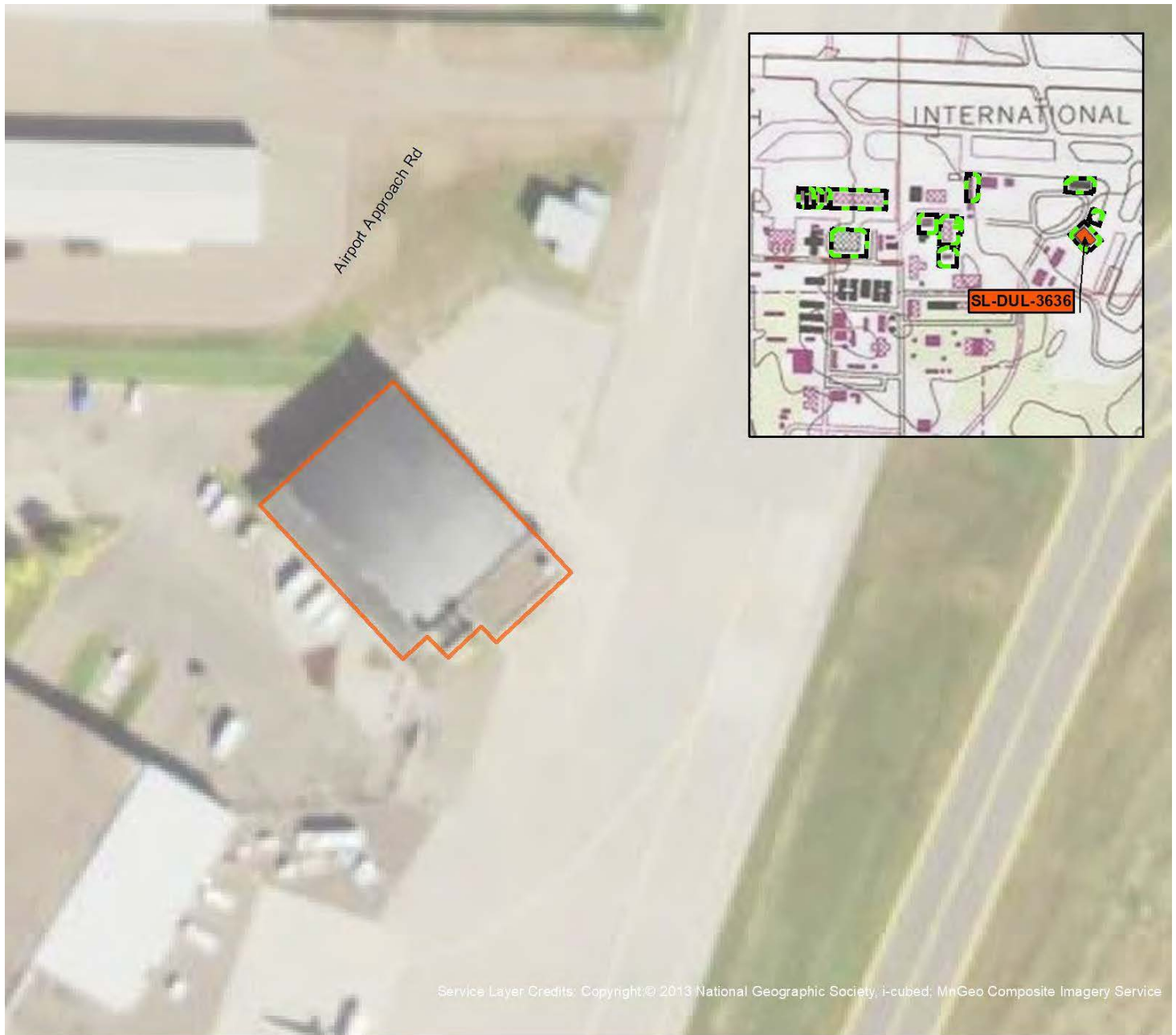


# Minnesota Individual Property Inventory Form

Historic Name: Hangar 622

Inventory No: SL-DUL-3636

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021

**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-3636**  
4525 Airport Approach Road  
Duluth, St. Louis County, Minnesota

0 20 Meters  
0 50 Feet

1:1,000



- Survey Area
- Inventoried Property

**Map 1**

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Hangar  
Other Names: Malachi  
Inventory No: SL-DUL-3637  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4525 Airport Approach Rd  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.025989

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	1		SE	SW

UTM Zone	Easting	Northing
15N	561817.739062	5187524.4756

### Urban:

Subdivision: DULUTH CITY OF  
Block(s): \_\_\_\_\_  
Lot(s): \_\_\_\_\_

Property Identification Number (PIN): 010-2747-00120

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Hangar

Inventory No: SL-DUL-3637

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Metal

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes *If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: c. 1975

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*



# Minnesota Individual Property Inventory Form

Historic Name: Hangar

Inventory No: SL-DUL-3637

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Hangar

Inventory No: SL-DUL-3637

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

This hangar is located at the Duluth International Airport (DIA), sited northeast of Airport Road on the southwest side of the airport. This one-story, T-shaped hangar rests on a wood plank foundation, is clad in standing seam metal, and has a flat roof that is covered in standing seam metal. The southeast elevation features three steel canopy hangar doors. Additional fenestration includes a single-leaf steel door on the northeast elevation.

### Integrity:

This property retains excellent integrity of location and setting. The integrity of feeling is good, as it is still used to house small aircraft, but the absence of military aircraft/buildings in the vicinity minimizes the integrity of association because this building was constructed while the United States Air Force operated the airport for national defense purposes during the Cold War. The integrity of the design, materials, and workmanship is good; it is likely that the single-leaf steel door on the northeast elevation is a modern replacement. Overall, this property retains good integrity.

## Statement of Significance

### Property History:

The hangar was built between 1972 and 1981, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; University of Minnesota [UofM] 1972; UofM 1981). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows that the hangar had been built prior to the deactivation of the Duluth Air Base in September of 1981, and therefore, it was likely constructed circa 1975 (Bradley 2006:21).

### Significance:

This hangar was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). Based on its construction date, this building was likely constructed by the United States Air Force during DIA's use for national defense during the Cold War era. The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through SAGE. While SAGE was a critical element of Cold War-era national defense and relied on an ever-ready fighter squadron stationed at the base, it is unlikely that this building housed any strategic defense equipment associated with the program due to its late construction date and relatively small scale, it was likely used as an aircraft storage facility. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

This property does not have distinctive characteristics of an architectural style, does not embody a specific time period, and does not serve as the highest or best example of a method of construction. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

# Minnesota Individual Property Inventory Form

Historic Name: Hangar

Inventory No: SL-DUL-3637

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Bradley, Betsy H., et. al.

2006 Cultural Resources Survey of the Duluth Air National Guard Base, Duluth, St. Louis County, Minnesota. Prepared by The 106 Group, St. Paul, Minnesota. On file at the State Historic Preservation Office, St. Paul, Minnesota.

Fox, Duncan

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

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St. Louis County Assessor's Office

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University of Minnesota [UofM]

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1981 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document, <https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar

Inventory No: SL-DUL-3637

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-3637 - 5/25/2021 - East & South Elevations, Facing Northwest

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar

Inventory No: SL-DUL-3637

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-3637 - 5/25/2021 - East & North Elevations, Facing Southwest



# Minnesota Individual Property Inventory Form

Historic Name: Hangar

Inventory No: SL-DUL-3637

Associated MN Multiple Property Form (Name and Inventory No):



Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021



**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-3637**  
4525 Airport Approach Road  
Duluth, St. Louis County, Minnesota

0 20 Meters  
0 50 Feet

1:1,000



-  Survey Area
-  Inventoried Property

**Map 1**

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Building 616  
Other Names: FAA Air Traffic Control Tower  
Inventory No: SL-DUL-3638  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4525 Airport Approach Rd  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.18792

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	1		SE	SW

UTM Zone	Easting	Northing
15N	561774.342047	5187606.51828

### Urban:

Subdivision: DULUTH CITY OF  
Block(s): \_\_\_\_\_  
Lot(s): \_\_\_\_\_

Property Identification Number (PIN): 010-2747-00120

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: Brutalism

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Brick

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes *If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: 1951

Other Significant Construction Dates: c. 1975 *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*



# Minnesota Individual Property Inventory Form

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Building 616 is located at the Duluth International Airport (DIA), sited northeast of Airport Road on the southwest side of the airport. This two-story rectangular building rests on a concrete foundation, is clad in a combination of brick on the first story and concrete with pilasters on the second story, and has a flat roof with metal coping. The central portion of the building features characteristics of the Brutalist style.

The north-facing façade features large, fixed wood windows; one-over-one, double hung, wood windows; wood awning windows; fixed vinyl windows; metal casement windows; a single-leaf steel door with bolts; a single-leaf steel door with one light; a single-leaf vinyl door with nine lights; a single-leaf steel door; and a single-stall wood garage door. The south elevation features a single-leaf steel and glass door with side lights beneath an aluminum awning; large, fixed steel windows; fixed aluminum windows with faux muntins; one-over-one, double-hung, aluminum windows; and a single-leaf vinyl door with nine lights beneath an aluminum awning. The area surrounding the vinyl door has been infilled with wood siding. There is a brick chimney on the interior of the west end of the roof.

There is a three-story wing on the east elevation that is clad in standing-seam metal and has a flat roof ringed by a metal railing. This wing houses an air traffic control tower. Fenestration on this wing includes large plate glass windows; one-over-one, double-hung, aluminum windows; fixed wood windows; and a single-leaf steel door with one light. There is a three-story brick addition on the west elevation that was built between 1972 and 1981. This addition has a flat roof with metal coping. Fenestration on this addition is limited to a single-leaf steel door on its east-facing elevation the provides roof access and several vents on its west and north elevations.

### Integrity:

This property retains excellent integrity of location. The integrity of the setting has been slightly compromised by the addition of new buildings to the west and south between 1991 and 2008. The integrity of materials and workmanship is fair due to the addition of modern aluminum and vinyl doors and windows, as well as infill wood siding around a single-leaf door on the south elevation. The integrity of design is good, but it has been slightly compromised by the addition built on its west elevation between 1972 and 1981. The integrity of feeling is excellent, due to its continued use as an air traffic control tower. The absence of military aircraft/buildings in the vicinity minimizes the integrity of association because this building was constructed while the United States Air Force operated the airport for national defense purposes during the Cold War. Overall, this property retains good integrity.

## Statement of Significance

### Property History:

The property was built in 1951, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; University of Minnesota [UofM] 1948; Nationwide Environmental Title Research, LLC [NETR] 1952). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows an addition was built on the west end of the building between 1972 and 1981 (UofM 1972; UofM 1981).

In the DIA 2015 Master Plan, this building's purpose is described as containing the Federal Aviation Administration (FAA) Air Traffic Control Tower, offices, and classrooms. It was likely originally used for air traffic control purposes by the Air Force and DIA. The DIA 2015 Master Plan also notes that the building served as the airport's passenger terminal until a new one was constructed southeast of the runway intersection in 1974, at which point Building 616

# Minnesota Individual Property Inventory Form

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

was converted into office space. The building is currently occupied by the FAA Air Traffic Control Tower and the FAA Weather Observer, while other portions are leased to Lake Superior College's Center for Advanced Aviation for classroom space or remain vacant (RS&H 2015:33, 51, 176).

The central portion of this building features characteristics of the Brutalist style. Brutalism arose in Britain in the early 1950s in response to Modernist architecture. Brutalist architects attempted to create a new, honest design aesthetic based on the exposure of a building's components, including frame (concrete or steel), sheathing (often brick), and mechanical systems. The style is characterized by heavy massing and scale that evoke a sense of permanence, and highly sculptural blocky shapes often stacked in various ways to create unbalanced elevations. Common design elements include broad wall surfaces with windows treated as deep penetrations between concrete forms, vertical slots juxtaposed with broad linear forms, and use of openings as holes. Exterior surfaces are typically exposed concrete, left rough to show the wooden formwork, although brick and stucco may also be used. Pipes, vents, ducts, and other mechanical elements are often left exposed. Brutalism was most often applied to institutional or public buildings, and in the United States was popular from the 1950s through the 1980s (Walker 2011:30).

## Significance:

Building 616 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). The property was likely constructed by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through the SAGE. While SAGE was a critical element of Cold War-era national defense, it is unlikely that this property housed any strategic defense equipment associated with the program. Instead, it was likely used for routine air traffic control purposes by both the Air Force and DIA. . Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

The central portion of this building features some characteristics of the Brutalist style that arose in the early 1950s, including windows between concrete forms and vertical slots juxtaposed with broad linear forms. However, this building is not exemplary of the style. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

## Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Fox, Duncan

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# Minnesota Individual Property Inventory Form

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

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Walker, Amy E.

2011 Field Guide for High Style and Vernacular Architecture in Indiana. On file at the Indiana Division of Historic Preservation and Archaeology, Department of Natural Resources, Indianapolis, Indiana.

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**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-3638 - 5/25/2021 - West Elevation & Control Tower, Facing Northwest

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



SL-DUL-3638 - 5/25/2021 - East Elevation of Control Tower, Facing South

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-3638 - 5/25/2021 - West & South Elevations, Facing Northeast

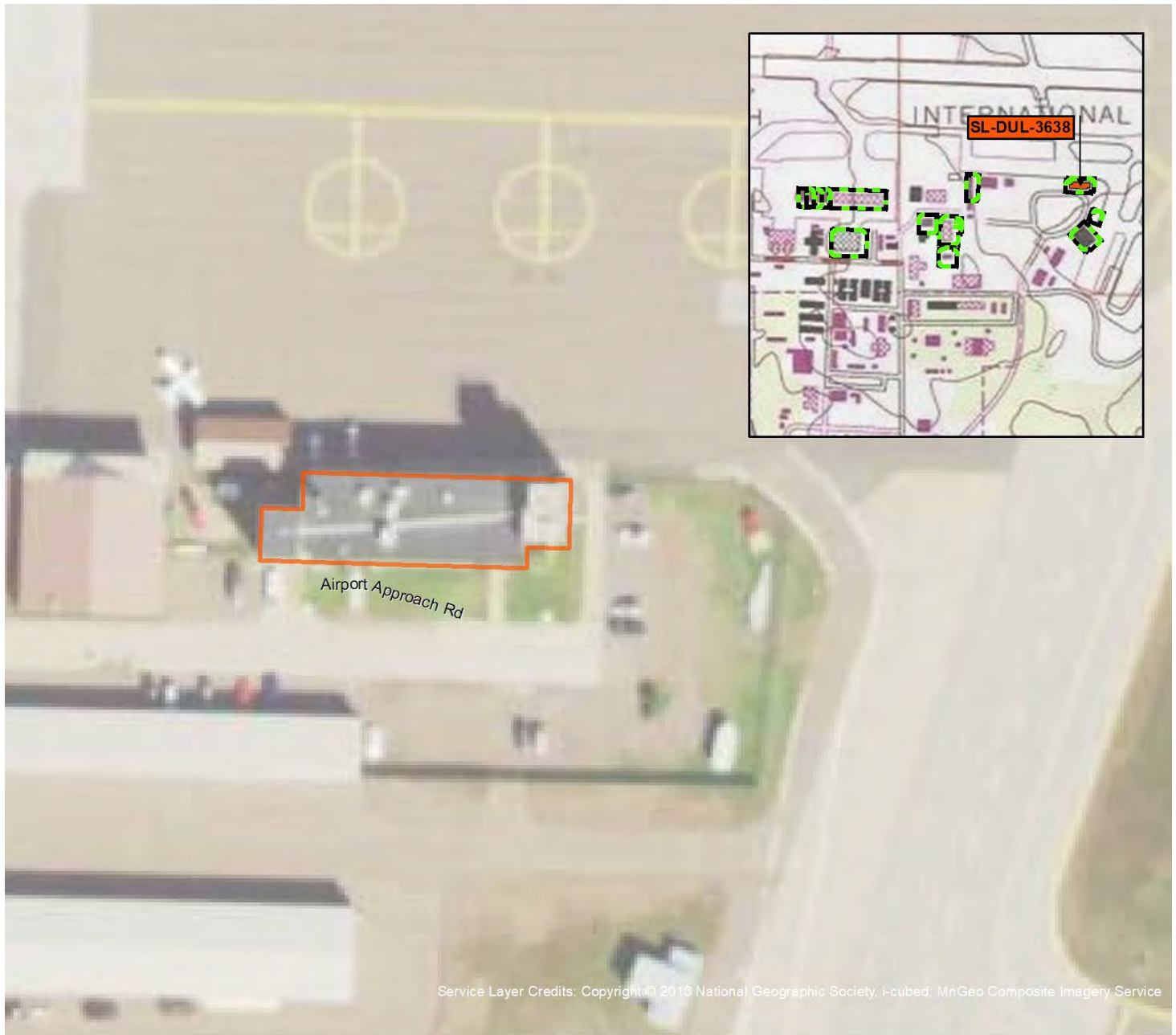


# Minnesota Individual Property Inventory Form

Historic Name: Building 616

Inventory No: SL-DUL-3638

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Service Layer Credits: Copyright © 2010 National Geographic Society, i-cubed, MnGeo Composite Imagery Service

Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021

**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-3638**  
4525 Airport Approach Road  
Duluth, St. Louis County, Minnesota

0 20 Meters  
0 50 Feet

1:1,000



- Survey Area
- Inventoried Property

**Map 1**



# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Hangar 608  
Other Names: Monaco Air Duluth  
Inventory No: SL-DUL-3639  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4525 Airport Approach Rd  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.121252

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	1		SW	SW

UTM Zone	Easting	Northing
15N	561493.742787	5187598.86403

### Urban:

Subdivision: DULUTH CITY OF  
Block(s): \_\_\_\_\_  
Lot(s): \_\_\_\_\_

Property Identification Number (PIN): 010-2747-00110

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Metal

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes *If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: c. 1970

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Hangar 608 is located at the Duluth International Airport (DIA), sited north of Airport Road on the southwest side of the airport. This long one-story rectangular hangar does not have a visible foundation, has walls clad in a mixture of standing seam metal and corrugated metal, and has a low-pitched gable roof that is covered in corrugated metal. The east elevation features a single leaf vinyl door with a single light, two bi-folding steel hangar doors, and two single leaf steel doors. Additional fenestration includes metal casement windows, vinyl picture windows, single leaf steel doors, and three bi-folding steel hangar doors.

### Integrity:

This property retains excellent integrity of location. The integrity of the setting has been compromised by the loss of historic structures to the east as well as the addition of several parking lots to the east and south (University of Minnesota [UofM] 1972; Nationwide Environmental Title Research, LLC [NETR] 2003). The integrity of feeling and association is good. The integrity of design, materials, and workmanship have been compromised by the addition of modern windows, and the demolition of the southern half of the original structure. Overall, this property retains poor integrity.

## Statement of Significance

### Property History:

The property was built between 1961 and 1972, likely circa 1970, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; UofM 1961; UofM 1972). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows that the southern half of the original structure was demolished between 2003 and 2008 (NETR 2003; NETR 2008).

In the DIA 2015 Master Plan, this building's purpose is classified as a "T-hangar" and was likely originally used as a storage hangar for small aircraft by the Air Force (RS&H 2015:52). It is currently occupied by Monaco Air Duluth, the DIA's fixed-base operator (Monaco Air Duluth 2021).

### Significance:

Hangar 608 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). The property was likely constructed by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through SAGE. While SAGE was a critical element of Cold War-era national defense, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as an aircraft storage facility. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

This property does not have distinctive characteristics of an architectural style, does not embody a specific time period, and does not serve as the highest or best example of a method of construction. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance and a loss of integrity.

## Bibliography

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**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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**Property Photograph(s)**



SL-DUL-3639 - 5/25/2021 - West Elevation, Facing East

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-3639 - 5/25/2021 - West & South Elevations, Facing Northeast



**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



SL-DUL-3639 - 5/25/2021 - South & East Elevations, Facing Northwest

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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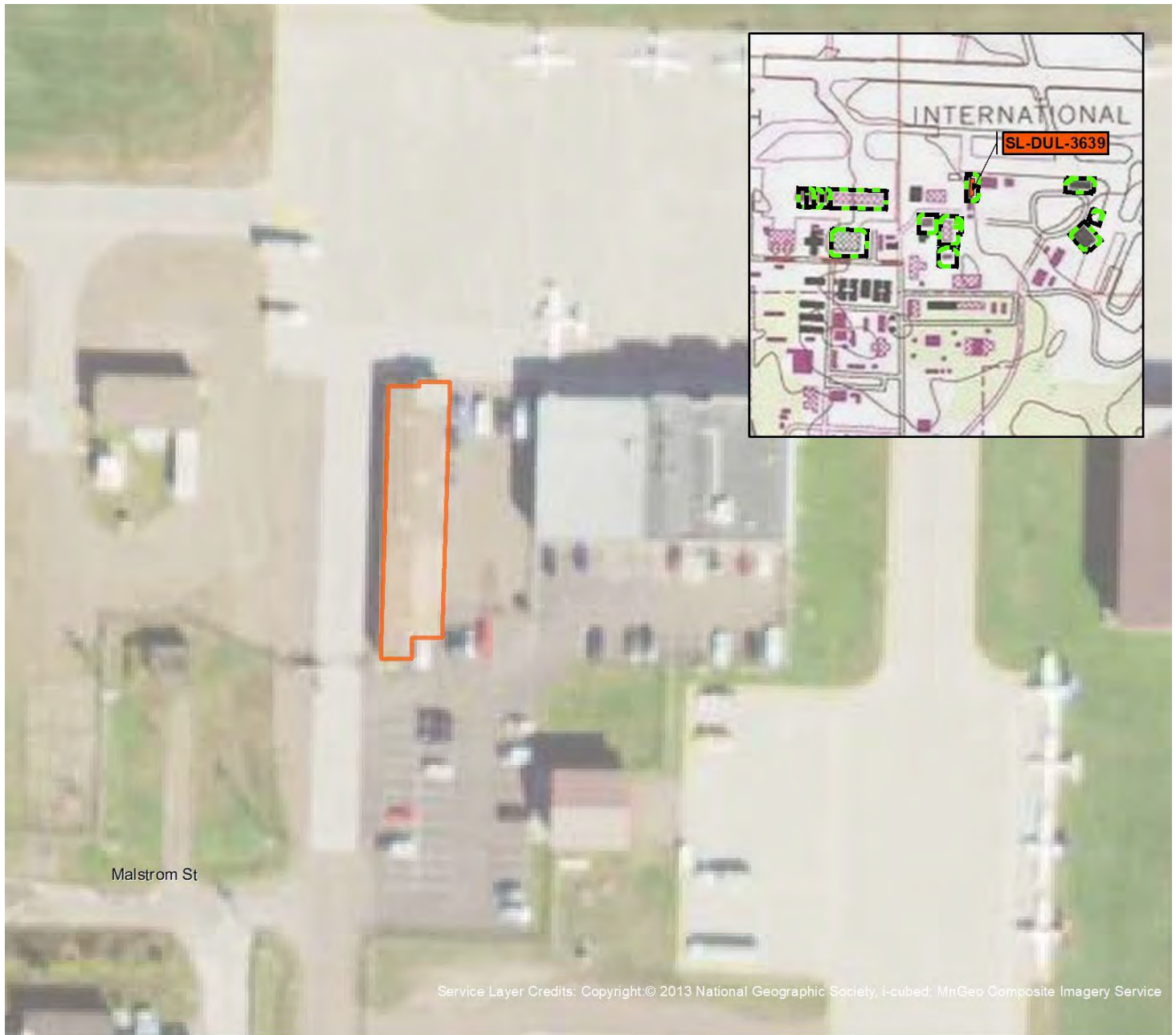
SL-DUL-3639 - 5/25/2021 - North & East Elevations, Facing Southeast

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 608

Inventory No: SL-DUL-3639

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021

**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-3639**  
4525 Airport Approach Road  
Duluth, St. Louis County, Minnesota

0 20 Meters  
0 50 Feet

1:1,000



- Survey Area
- Inventoried Property

**Map 1**

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Building 306  
Other Names: \_\_\_\_\_  
Inventory No: SL-DUL-3640  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4550 Stebner Rd  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.162067

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	1		SW	SW

UTM Zone	Easting	Northing
15N	561377.292795	5187502.61078

### Urban:

Subdivision: AIRPORT DIVISION  
Block(s): 1  
Lot(s): 8

Property Identification Number (PIN): 010-0148-00080

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Unknown	

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Metal

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes *If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: c. 1955

Other Significant Construction Dates: c. 1970 *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*

# Minnesota Individual Property Inventory Form

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur
- Does Not Concur
- More Information Needed

#### Historic District Recommendation (NRHP)

- Concur
- Does Not Concur
- More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur
- Does Not Concur
- More Information Needed

Comments:



# Minnesota Individual Property Inventory Form

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Building 306 is located at the Duluth International Airport (DIA), sited north of Airport Road on the southwest side of the airport. This one-story rectangular building rests on a concrete foundation, is clad in standing seam metal, and has a front gable roof that is covered with corrugated metal. There is a one-story addition on the south elevation, built circa 1970, that has a flat roof covered with corrugated metal (University of Minnesota [UofM] 1961, 1972). The west elevation features a single-leaf steel door with single light, a single-leaf steel door with a plywood-covered single light, aluminum hopper window, and a single stall metal overhead door in the center of what appear to panel doors that are now welded shut. A single outrigger for the panel doors protrudes north from the west elevation. Additional fenestration includes single-leaf steel doors, a double-leaf steel door, aluminum sliding windows, and casement windows.

### Integrity:

This property retains excellent integrity of location. The integrity of the setting has been compromised by the loss of historic structures to the south and southwest that were built by the Air Force during the same period (Nationwide Environmental Title Research, LLC [NETR] 2003). The integrity of feeling and association is good. The integrity of the design, materials, and workmanship is fair, as several windows and a single stall garage door have been covered with plywood and the single-story addition on the south elevation altered the original design. Segments of the standing seam metal have also been replaced on the south elevation. What were the original panel doors on the west-facing elevation have been welded shut and a single stall overhead door has been placed in their center. Overall, this property retains fair integrity.

## Statement of Significance

### Property History:

This hangar was built between 1952 and 1961, likely circa 1955, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015 33; UofM 1961; NETR 1952). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows an addition on the south elevation was constructed between 1961 and 1972 (UofM 1961; UofM 1972).

The property shares many characteristics of the Type 'B' weapons calibration shelters designed by the Kuljian Corporation in 1959 for use on Air Force bases throughout the United States, particularly with regard to its panel doors and outrigger on the west elevation (Weitze 1999:72-73). The south-facing outrigger was likely removed or enclosed when the addition on the south elevation was constructed in circa 1970. It is unclear when the panel doors were welded shut and the single stall overhead door was added.

In the DIA 2015 Master Plan, this building's purpose is classified as belonging to the Duluth Airport Authority and is used to house snow removal equipment (RS&H 2015:176).

### Significance:

Building 306 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). The property was likely constructed by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through the SAGE. While SAGE was a

# Minnesota Individual Property Inventory Form

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

critical element of Cold War-era defense and relied on an ever-ready fighter squadron stationed at the base, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as a maintenance facility for squadron aircraft. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

This property does not have distinctive characteristics of an architectural style, does not embody a specific time period, and does not serve as the highest or best example of a method of construction. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

## Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Fox, Duncan.

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

Nationwide Environmental Title Research, LLC [NETR]

1952 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

2003 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

RS&H

2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

Sherman, Roger W.

1930 Airplane Hangars: Planning, Fire Protection, Construction Data. Architectural Forum 53(6): 769-778.

St. Louis County Assessor's Office



**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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2021 Property Details Report. Electronic document,  
<http://reports.stlouiscountymn.gov/ssrswrapper/ShowSSRSReport.aspx?reportPath=%2fAssessor%2fPropertyDetails%2fMain&pdf=true&param1=parcelnum=010-0148-00030>, accessed June 1, 2021.

University of Minnesota [UofM]  
1961 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document,  
<https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

1972 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document,  
<https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

Weitze, Karen J.  
1999 Cold War Infrastructure for Air Defense: The Fighter and Command Missions. Electronic document,  
<http://docshare04.docshare.tips/files/9112/91128529.pdf>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-3640 - 5/25/2021 - East Elevation, Facing West

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



SL-DUL-3640 - 5/25/2021 - East & North Elevations, Facing Northeast

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-3640 - 5/25/2021 - South Elevation, Facing North

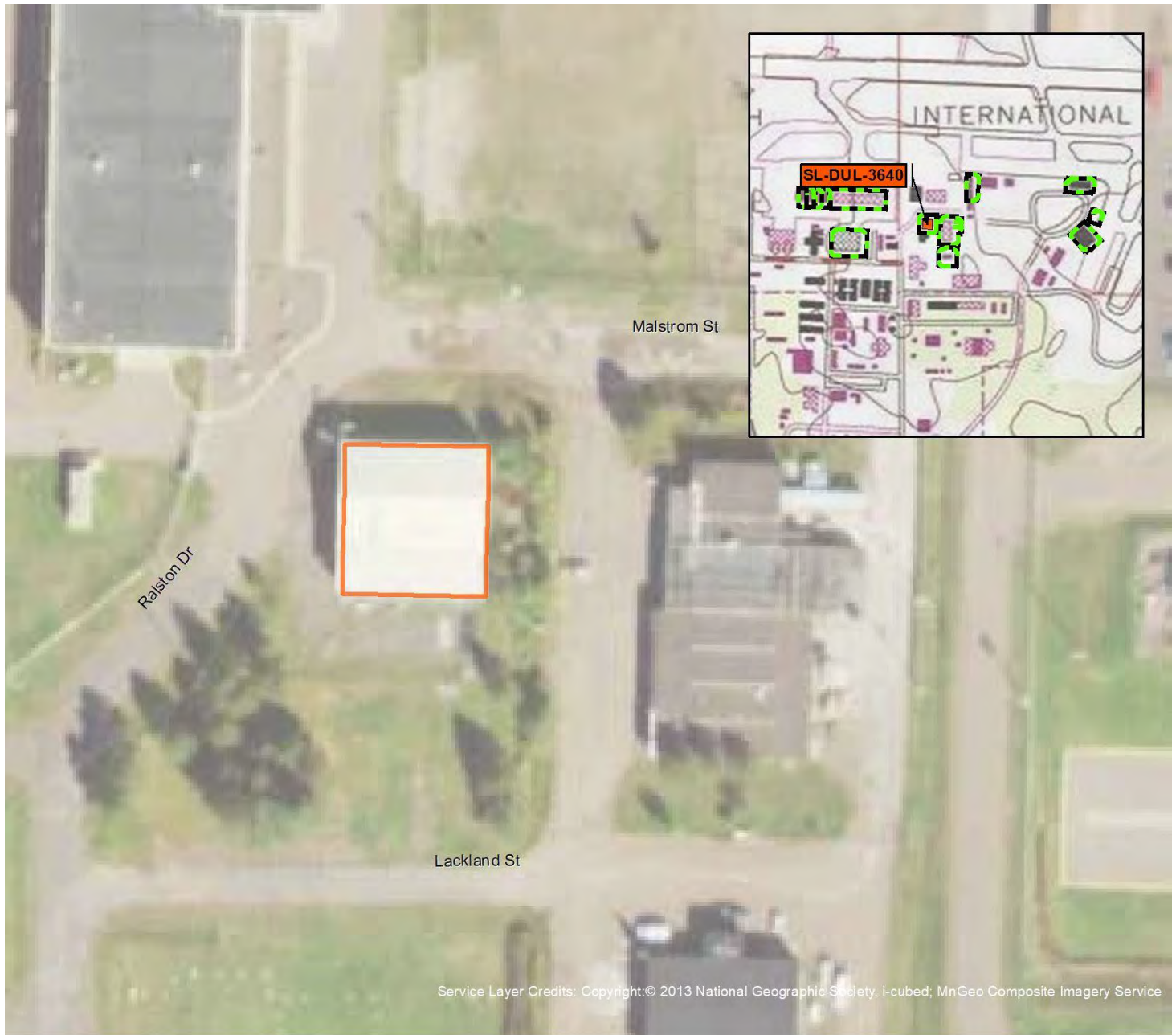


# Minnesota Individual Property Inventory Form

Historic Name: Building 306

Inventory No: SL-DUL-3640

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed; MnGeo Composite Imagery Service

Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021

**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-3640**  
4550 Stebner Road  
Duluth, St. Louis County, Minnesota

0 20 Meters  
0 50 Feet

1:1,000



- Survey Area
- Inventoried Property

**Map 1**

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Hangar 107  
Other Names: \_\_\_\_\_  
Inventory No: SL-DUL-3642  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4525 Airport Approach Rd  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.123935

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	2		SE	SE

UTM Zone	Easting	Northing
15N	561059.525047	5187569.46748

### Urban:

Subdivision: AIRPORT DIVISION  
Block(s): 4  
Lot(s): 12

Property Identification Number (PIN): 010-0148-00310

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 107

Inventory No: SL-DUL-3642

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Metal

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes *If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: 1960

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Tax Assessor & aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 107

Inventory No: SL-DUL-3642

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:



# Minnesota Individual Property Inventory Form

Historic Name: Hangar 107

Inventory No: SL-DUL-3642

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Hangar 107 is located at the Duluth International Airport (DIA), sited north of Airport Road on the southwest side of the airport. This one-story rectangular hangar rests on a concrete foundation, is clad in standing seam metal, and has a front gable roof that is covered with corrugated steel. The south and north elevations feature three-track, six-leaf steel doors with outriggers. Additional fenestration includes single-leaf steel doors with single lights on the west and east elevations.

### Integrity:

This property retains excellent integrity of location, but the setting has been compromised by the loss of three historic hangars to the west. The integrity of feeling and association is good. The integrity of the design, materials, and workmanship is good, though segments of the standing seam metal have been visibly replaced over time. Overall, this property retains good integrity.

## Statement of Significance

### Property History:

The hangar was built in 1960, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; St. Louis County Assessor's Office 2001:2). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows no indication that the hangar was significantly altered since its initial construction (University of Minnesota 1961; Nationwide Environmental Title Research, LLC [NETR] 2017).

This structure is representative of the prefabricated, rigid-frame Type 'B' steel hangars that were designed by the Butler Manufacturing Company and were commonly erected on Tactical Air Command (TAC) and Strategic Air Command (SAC) installations across the United States from about 1960 to 1977. They were primarily used as maintenance shelters for small aircraft and grouped together in multiple unit configurations (Weitze 1999:54; Aaron 2011:5-4).

### Significance:

Hangar 107 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). The property was likely constructed by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through the SAGE. While SAGE was a critical element of Cold War-era defense and relied on an ever-ready fighter squadron stationed at the base, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as a maintenance facility for squadron aircraft. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, does not have significance under NRHP Criterion B.

This property has some characteristics of the Butler rigid-frame Type 'B' maintenance hangars that were erected by the Air Force's TAC and SAC on air bases throughout the country between 1960 and 1977. As these hangars were prefabricated and extremely common, this property does not embody a specific time period, does not serve as the best example of a method of construction, and does not have distinctive characteristics of an architectural style.

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 107

Inventory No: SL-DUL-3642

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Fox, Duncan

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

Nationwide Environmental Title Research, LLC [NETR]

2017 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

RS&H

2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

Sherman, Roger W.

1930 Airplane Hangars: Planning, Fire Protection, Construction Data. Architectural Forum 53(6): 769-778.

St. Louis County Assessor's Office

2021 Property Details Report. Electronic document, <http://reports.stlouiscountymn.gov/ssrswrapper/ShowSSRSReport.aspx?reportPath=%2fAssessor%2fPropertyDetails%2fMain&pdf=true&param1=parcelnum=010-0148-00310>, accessed May 27, 2021.

Weitze, Karen J.

1999 Cold War Infrastructure for Air Defense: The Fighter and Command Missions. Electronic document, <http://docshare04.docshare.tips/files/9112/91128529.pdf>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 107

Inventory No: SL-DUL-3642

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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**Property Photograph(s)**



SL-DUL-3642 - 5/25/2021 - South Elevation, Facing North

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 107

Inventory No: SL-DUL-3642

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---



SL-DUL-3642 - 5/25/2021 - North Elevation, Facing Southeast

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 107

Inventory No: SL-DUL-3642

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Source: 106 Group, SEH

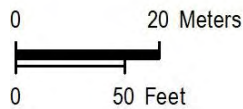
Map Produced by 106 Group 9/9/2021

## Duluth International Airport Master Plan Project

Duluth, St. Louis County, Minnesota



### SL-DUL-3642

4525 Airport Approach Road  
Duluth, St. Louis County, Minnesota



1:1,000



-  Survey Area
-  Inventoried Property

### Map 1

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Hangar 106  
Other Names: \_\_\_\_\_  
Inventory No: SL-DUL-3643  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4525 Airport Approach Rd  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.124523

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	2		SE	SE

UTM Zone	Easting	Northing
15N	561081.286631	5187567.29654

### Urban:

Subdivision: AIRPORT DIVISION  
Block(s): 4  
Lot(s): 11

Property Identification Number (PIN): 010-0148-00300

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 106

Inventory No: SL-DUL-3643

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Metal

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes *If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: c. 1960

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*



# Minnesota Individual Property Inventory Form

Historic Name: Hangar 106

Inventory No: SL-DUL-3643

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:



# Minnesota Individual Property Inventory Form

Historic Name: Hangar 106

Inventory No: SL-DUL-3643

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Hangar 106 is located at the Duluth International Airport (DIA), sited north of Airport Road on the southwest side of the airport. This one-story rectangular hangar rests on a concrete foundation, is clad in standing seam metal, and has a front gable roof that is covered with corrugated steel. The south and north elevations feature three-track, six-leaf steel doors with outriggers. Additional fenestration includes single-leaf steel doors with single lights on the west and east elevations.

### Integrity:

This property retains excellent integrity of location. The integrity of setting has been compromised by the loss of three historic hangars to the west. The integrity of feeling is good, but the absence of military aircraft/buildings in the vicinity minimizes the integrity of association because this building was constructed while the United States Air Force operated the airport for national defense purposes during the Cold War. The integrity of the design, materials, and workmanship is good, though segments of the standing seam metal have been visibly replaced over time with in-kind materials. Overall, this property retains good integrity.

## Statement of Significance

### Property History:

The hangar was built between 1952 and 1961, likely circa 1960, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; Nationwide Environmental Title Research, LLC [NETR] 1952; University of Minnesota [UofM] 1961). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows no indication that the hangar has been significantly altered since its initial construction (UofM 1961; NETR 2017).

This structure is representative of the prefabricated, rigid-frame Type 'B' steel hangars that were designed by the Butler Manufacturing Company and were commonly erected on Tactical Air Command (TAC) and Strategic Air Command (SAC) installations across the United States from about 1960 to 1977. They were primarily used as maintenance shelters for small aircraft and grouped together in multiple unit configurations (Weitze 1999:54; Aaron 2011:5-4).

### Significance:

Hangar 106 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). Based on its construction date, the property was likely built by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through the SAGE. While SAGE was a critical element of Cold War-era national defense and relied on an ever-ready fighter squadron stationed at the base, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as a maintenance facility for squadron aircraft. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, does not have significance under NRHP Criterion B.

This property has some characteristics of the Butler rigid-frame Type 'B' maintenance hangars that were erected by

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 106

Inventory No: SL-DUL-3643

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

the Air Force's TAC and SAC on air bases throughout the country between 1960 and 1977. As these hangars were prefabricated and extremely common, this property does not embody a specific time period, does not serve as the best example of a method of construction, and does not have distinctive characteristics of an architectural style. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Fox, Duncan

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

Nationwide Environmental Title Research, LLC [NETR]

1952 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

2017 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

RS&H

2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

Sherman, Roger W.

1930 Airplane Hangars: Planning, Fire Protection, Construction Data. Architectural Forum 53(6): 769-778.

St. Louis County Assessor's Office

2021 Property Details Report. Electronic document, <http://reports.stlouiscountymn.gov/ssrwrapper/ShowSSRSReport.aspx?reportPath=%2fAssessor%2fPropertyDetails%2fMain&pdf=true&param1=parcelnum=010-0148-00300>, accessed June 2, 2021.

University of Minnesota [UofM]

1961 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document,

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 106

Inventory No: SL-DUL-3643

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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<https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

Weitze, Karen J.

1999 Cold War Infrastructure for Air Defense: The Fighter and Command Missions. Electronic document,  
<http://docshare04.docshare.tips/files/9112/91128529.pdf>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 106

Inventory No: SL-DUL-3643

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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**Property Photograph(s)**



SL-DUL-3643 - 5/25/2021 - South Elevation, Facing North

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 106

Inventory No: SL-DUL-3643

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-3643 - 5/25/2021 - North Elevation, Facing South

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 106

Inventory No: SL-DUL-3643

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Source: 106 Group, SEH

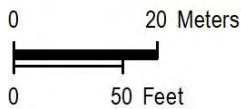
Map Produced by 106 Group 9/9/2021

## Duluth International Airport Master Plan Project

Duluth, St. Louis County, Minnesota



### SL-DUL-3643

4525 Airport Approach Road  
Duluth, St. Louis County, Minnesota



1:1,000



-  Survey Area
-  Inventoried Property

### Map 1

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Hangar 105  
Other Names: EAA 272  
Inventory No: SL-DUL-3644  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4525 Airport Approach Rd  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.123462

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	2		SE	SE

UTM Zone	Easting	Northing
15N	561103.256988	5187568.07263

### Urban:

Subdivision: AIRPORT DIVISION  
Block(s): 4  
Lot(s): 10

Property Identification Number (PIN): \_\_\_\_\_

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 105

Inventory No: SL-DUL-3644

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Metal

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes

*If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: c. 1960

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*



# Minnesota Individual Property Inventory Form

Historic Name: Hangar 105

Inventory No: SL-DUL-3644

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 105

Inventory No: SL-DUL-3644

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Hangar 105 is located at the Duluth International Airport (DIA), sited north of Airport Road on the southwest side of the airport. This one-story rectangular hangar rests on a concrete foundation, is clad in standing seam metal, and has a front gable roof that is covered with corrugated steel. The south and north elevations feature three-track, six-leaf steel doors with outriggers. There is a one-story wing with a shed roof covered in asphalt shingles on the east elevation. The north and south walls of the wing are clad in standing seam metal and the east wall is concrete. There is a single-leaf steel door with a single light on the south elevation and a fixed window on the south elevation. Additional fenestration includes single-leaf steel doors with single lights on the west and east elevations.

### Integrity:

This property retains excellent integrity of location. The integrity of setting has been slightly compromised by the loss of three historic hangars to the west. The integrity of feeling is good, but the absence of military aircraft/buildings in the vicinity minimizes the integrity of association because this building was constructed while the United States Air Force operated the airport for national defense purposes during the Cold War. The integrity of the design, materials, and workmanship is good, though segments of the standing seam metal have been visibly replaced over time with in-kind materials. Overall, this property retains good integrity.

## Statement of Significance

### Property History:

The hangar was built between 1952 and 1961, likely circa 1960 at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; Nationwide Environmental Title Research, LLC [NETR] 1952; University of Minnesota [UofM] 1961). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows no indication that the hangar has been significantly altered since its initial construction (UofM 1961; NETR 2017). The building is currently occupied by the Experimental Aircraft Association (EAA), Duluth-Superior Chapter 272.

This structure is representative of the prefabricated, rigid-frame Type 'B' steel hangars that were designed by the Butler Manufacturing Company and were commonly erected on Tactical Air Command (TAC) and Strategic Air Command (SAC) installations across the United States from about 1960 to 1977. They were primarily used as maintenance shelters for small aircraft and grouped together in multiple unit configurations (Weitze 1999:54; Aaron 2011:5-4).

### Significance:

Hangar 105 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). Based on its construction date, the property was likely built by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through SAGE. While SAGE was a critical element of Cold War-era national defense and relied on an ever-ready fighter squadron stationed at the base, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as a maintenance facility for squadron aircraft. Therefore, it does not have significance within NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, does not have significance

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 105

Inventory No: SL-DUL-3644

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

under NRHP Criterion B.

This property has some characteristics of the Butler rigid-frame Type 'B' maintenance hangars that were erected by the Air Force's TAC and SAC on air bases throughout the country between 1960 and 1977. As these hangars were prefabricated and extremely common, this property does not embody a specific time period, does not serve as the best example of a method of construction, and does not have distinctive characteristics of an architectural style. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Fox, Duncan

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

Nationwide Environmental Title Research, LLC [NETR]

1952 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

1981 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

1991 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

2003 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

RS&H

2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

Sherman, Roger W.

1930 Airplane Hangars: Planning, Fire Protection, Construction Data.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 105

Inventory No: SL-DUL-3644

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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Architectural Forum 53(6): 769-778.

St. Louis County Assessor's Office

2021 Property Details Report. Electronic document,

<http://reports.stlouiscountymn.gov/ssrswrapper/ShowSSRSReport.aspx?reportPath=%2fAssessor%2fPropertyDetails%2fMain&pdf=true&param1=parcelnum=010-0148-00290>, accessed June 2, 2021.

University of Minnesota [UofM]

1961 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document, <https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

Weitze, Karen J.

1999 Cold War Infrastructure for Air Defense: The Fighter and Command Missions. Electronic document, <http://docshare04.docshare.tips/files/9112/91128529.pdf>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 105

Inventory No: SL-DUL-3644

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-3644 - 5/25/2021 - North Elevation, Facing South

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 105

Inventory No: SL-DUL-3644

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---



SL-DUL-3644 - 5/25/2021 - South Elevation, Facing North-Northwest

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 105

Inventory No: SL-DUL-3644

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Service Layer Credits: Copyright © 2013 National Geographic Society, i-cubed, MnGeo Composite Imagery Service

Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021



**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-3644**  
4525 Airport Approach Road  
Duluth, St. Louis County, Minnesota

0 20 Meters  
0 50 Feet

1:1,000



-  Survey Area
-  Inventoried Property

**Map 1**



# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Hangar 104  
Other Names: \_\_\_\_\_  
Inventory No: SL-DUL-3645  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4926 Malstrom St  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.432015

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	2		SE	SE

UTM Zone	Easting	Northing
15N	561163.072642	5187567.04101

### Urban:

Subdivision: AIRPORT DIVISION  
Block(s): 4  
Lot(s): 9

Property Identification Number (PIN): 010-0148-00280

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_



# Minnesota Individual Property Inventory Form

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Metal

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes

*If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: c. 1960

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Hangar 104 is located at the Duluth International Airport (DIA), sited north of Airport Road on the southwest side of the airport. This large one-story rectangular hangar rests on a concrete foundation, is clad in corrugated metal, and has a flat roof that is covered with metal. The south and north elevations feature four, single-panel vertical lift doors with single-leaf metal doors in the center of each. Additional fenestration includes a metal single-stall overhead garage door and single-leaf metal door on the east elevation. There are two structures attached to the west elevation, that appear to date to circa 1960. The southern building has standing seam metal walls, a flat roof covered in metal, and a single-leaf metal door on the south elevation. This building is attached to the hangar via conduits. The northern structure is a metal electrical generator with nine vertical access panels.

### Integrity:

This property retains excellent integrity of location. The integrity of setting has been slightly compromised by the loss of three historic hangars to the west. The integrity of feeling is good, but the absence of military aircraft/buildings in the vicinity minimizes the integrity of association because this building was constructed while the United States Air Force operated the airport for national defense purposes during the Cold War. The integrity of the design, materials, and workmanship is excellent. Overall, this property retains good integrity.

## Statement of Significance

### Property History:

The hangar was built between 1952 and 1961, likely circa 1960, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; Nationwide Environmental Title Research, LLC [NETR] 1952; University of Minnesota [UofM] 1961). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows no indication that the property has been significantly altered since its initial construction (UofM 1961; NETR 2017).

This property is representative of the Strobel & Salzman prefabricated aircraft shelters that were constructed on Air Force bases throughout the United States in the late 1950s and 1960s. Such hangars are characterized by their “austere” rectangular design, intended for erection in pairs, threes, or fours, and large vertical-lift doors positioned parallel to the flight line to allow for pull-thru entrance and egress. They were especially common in northern-tier air defense installations, as the extreme cold experienced during winters in these regions required “complete cover” for ready aircraft (Weitze 1999:71-72).

### Significance:

Hangar 104 was evaluated within the “History of the Duluth International Airport, 1929-present” historic context prepared by the 106 Group (Gallo et al. 2021). Based on its construction date, the property was likely built by the United States Air Force during the DIA’s use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through SAGE. While SAGE was a critical element of Cold War-era national defense and relied on an ever-ready fighter squadron stationed at the base, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as a support facility for squadron aircraft. Consequently, it is not significant under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, does not have significance under NRHP Criterion B.

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

This property has characteristics of the Strobel & Salzman aircraft shelters that were erected on Air Defense Command installations across the United States throughout the 1960s, namely its austere rectangular form and pull-thru vertical-lift doors. As these hangars were prefabricated and extremely common, this property does not embody a specific time period, does not serve as the best example of a method of construction, and does not have distinctive characteristics of an architectural style. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Fox, Duncan

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

Nationwide Environmental Title Research, LLC [NETR]

1952 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

1981 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

1991 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

2003 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

RS&H

2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

Sherman, Roger W.

1930 Airplane Hangars: Planning, Fire Protection, Construction Data. Architectural Forum 53(6): 769-778.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---

St. Louis County Assessor's Office

2021 Property Details Report. Electronic document,

<http://reports.stlouiscountymn.gov/ssrswrapper/ShowSSRSReport.aspx?reportPath=%2fAssessor%2fPropertyDetails%2fMain&pdf=true&param1=parcelnum=010-0148-00310>, accessed May 27, 2021.

University of Minnesota [UofM]

1961 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document,

<https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

Weitze, Karen J.

1999 Cold War Infrastructure for Air Defense: The Fighter and Command Missions. Electronic document,

<http://docshare04.docshare.tips/files/9112/91128529.pdf>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-3645 - 5/25/2021 - South & West Elevations, Facing Northeast

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



SL-DUL-3645 - 5/25/2021 - Structures on West Elevation, Facing Northeast

**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---



SL-DUL-3645 - 5/25/2021 - South & East Elevations, Facing Northwest



**Minnesota Individual Property  
Inventory Form**

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---



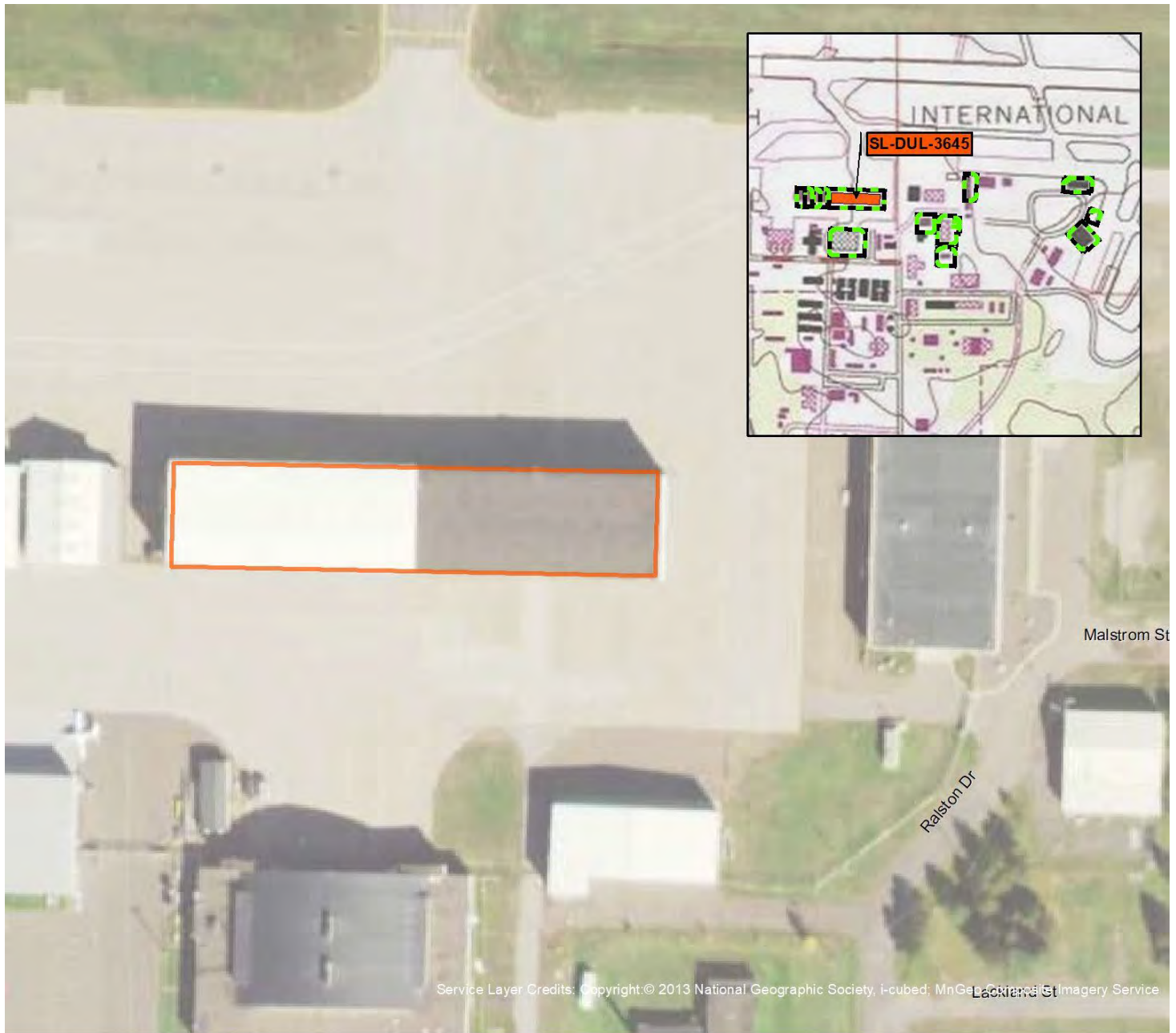
SL-DUL-3645 - 5/25/2021 - East & North Elevations, Facing Southwest

# Minnesota Individual Property Inventory Form

Historic Name: Hangar 104

Inventory No: SL-DUL-3645

Associated MN Multiple Property Form (Name and Inventory No):



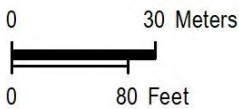
Service Layer Credits: Copyright: © 2013 National Geographic Society, i-cubed; MnGeo; Esri; Imagery Service

Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021

**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-3645**  
4926 Malstrom Steet  
Duluth, St. Louis County, Minnesota



1:1,500



- Survey Area
- Inventoried Property

Map 1

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Building 305  
Other Names: Hydro Solutions of Duluth  
Inventory No: SL-DUL-3646  
Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_  
New or Updated Form: New Review and Compliance No.: \_\_\_\_\_  
Extant: Yes Agency Proj No.: \_\_\_\_\_  
Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4845 Lackland St  
County(s): Saint Louis City/Twp(s): Duluth

Total Acres: 0.34598

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15	West	1		SW	SW

UTM Zone	Easting	Northing
15N	561435.810027	5187486.02683

### Urban:

Subdivision: AIRPORT DIVISION  
Block(s): 1  
Lot(s): 7

Property Identification Number (PIN): 010-0148-00070

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_  
 Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_  
 Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_  
 Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Unknown	

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Metal

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes *If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: c. 1960

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*

# Minnesota Individual Property Inventory Form

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Building 305 is located at the Duluth International Airport (DIA), sited north of Airport Road on the southwest side of the airport. This one-story, irregular-shaped building rests on a concrete foundation, is clad in standing seam metal, and has a flat roof. The west-facing facade features a recessed single-leaf aluminum and glass door with transom and side light. Additional fenestration includes a double-leaf steel doors; aluminum casement windows; one-over-one, double-hung, aluminum windows, a single-leaf aluminum door with window; a one-stall metal overhead door with single light; a one-stall metal overhead doors; fixed aluminum windows; and single-leaf steel door.

### Integrity:

This property retains excellent integrity of location. The integrity of the setting has been compromised by the loss of historic structures to the south (Nationwide Environmental Title Research, LLC [NETR] 2003). The integrity of feeling and association is good. The integrity of the design, materials, and workmanship is good, although there are areas of vinyl infill around doors and windows on the west elevation. It is likely that these were originally one-stall overhead doors. Overall, this property retains good integrity.

## Statement of Significance

### Property History:

The property was built between 1952 and 1961, likely circa 1960, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; NETR 1952; University of Minnesota [UofM] 1961). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography shows no indication that the property was significantly altered since its initial construction (UofM 1961; NETR 2017).

In the DIA 2015 Master Plan, this building's purpose is classified as a "manufacturing facility" and was likely originally used as a support facility by the Air Force, based on the building's form and design (RS&H 2015:176). The building is currently leased to Hydrosolutions of Duluth, Inc., a private manufacturing company (Hydrosolutions of Duluth, Inc. 2021).

### Significance:

Building 305 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). Based on its construction date, the property was likely built by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through SAGE. While SAGE was a critical element of Cold War-era national defense, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as a support facility. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

This property does not have distinctive characteristics of an architectural style, does not embody a specific time period, and does not serve as the highest or best example of a method of construction. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known

# Minnesota Individual Property Inventory Form

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Fox, Duncan.

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

Hydrosolutions of Duluth, Inc.

2021 About Us. Electronic Document, <http://www.hydsolutionsofduluth.com/about.html>, accessed June 1, 2021.

Nationwide Environmental Title Research, LLC [NETR]

1952 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

1981 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

1991 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

2003 Historical Aerial Photograph, St. Louis County, Minnesota. Electronic document, <http://historicaerials.com/>, accessed May 27, 2021.

RS&H

2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

Sherman, Roger W.

1930 Airplane Hangars: Planning, Fire Protection, Construction Data. Architectural Forum 53(6): 769-778.

St. Louis County Assessor's Office

2021 Property Details Report. Electronic document,

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---

<http://reports.stlouiscountymn.gov/ssrswrapper/ShowSSRSReport.aspx?reportPath=%2fAssessor%2fPropertyDetails%2fMain&pdf=true&param1=parcelnum=010-0148-00070>, accessed June 1, 2021.

University of Minnesota [UofM]

1961 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document, <https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

Weitze, Karen J.

1999 Cold War Infrastructure for Air Defense: The Fighter and Command Missions. Electronic document, <http://docshare04.docshare.tips/files/9112/91128529.pdf>, accessed May 27, 2021.



**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-3646 - 5/25/2021 - North & West Elevations, Facing Southeast

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---



SL-DUL-3646 - 5/25/2021 - West & South Elevations, Facing Northeast

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---



SL-DUL-3646 - 5/25/2021 - South & East Elevations, Facing Northwest

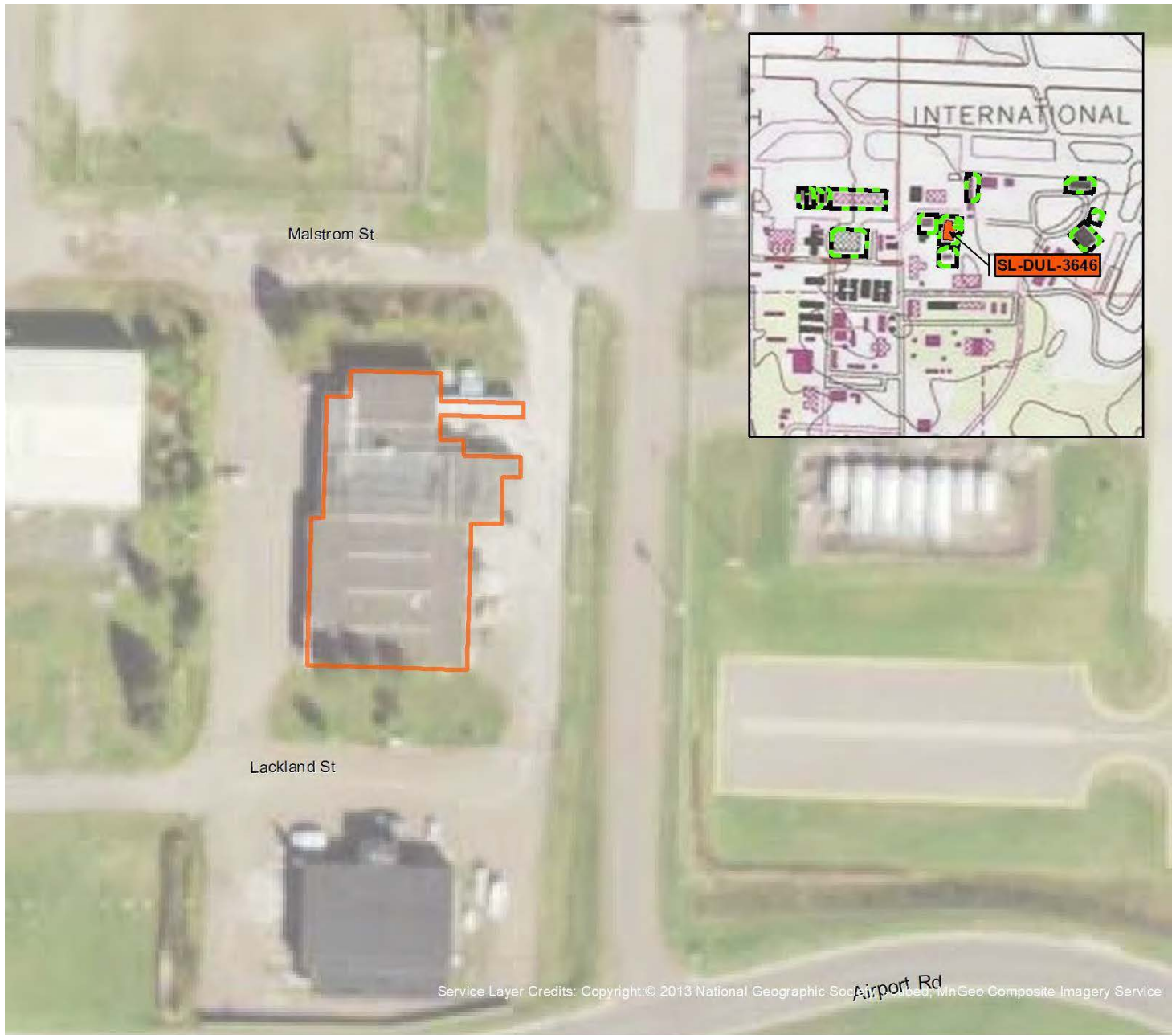


**Minnesota Individual Property Inventory Form**

Historic Name: Building 305

Inventory No: SL-DUL-3646

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021

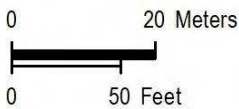
**Duluth International Airport Master Plan Project**

Duluth, St. Louis County, Minnesota

**SL-DUL-3646**


4845 Lackland Street

Duluth, St. Louis County, Minnesota



1:1,000



-  Survey Area
-  Inventoried Property

**Map 1**

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Building 308

Other Names: Duluth Composite Squadron, Civil Air Patrol

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_

New or Updated Form: New Review and Compliance No.: \_\_\_\_\_

Extant: Yes Agency Proj No.: \_\_\_\_\_

Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4848 Lackland St

County(s): Saint Louis

City/Twp(s): Duluth

Total Acres: 0.153023

USGS 7.5 Quad Name(s): Duluth Heights, 1993

### UTM Coordinates:

Datum: NAD 83

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
5	15	West	1		SW	SW

UTM Zone	Easting	Northing
15N	561431.2398	5187415.7283

### Urban:

Subdivision: AIRPORT DIVISION

Block(s): 1

Lot(s): 3

Property Identification Number (PIN): 010-0148-00030

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

- District Name: \_\_\_\_\_
- Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_
  - Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_
  - Within a CEF District  
Contributing Status: \_\_\_\_\_

- Within a SEF District  
Contributing Status: \_\_\_\_\_
- Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Building 308

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Unknown	

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Concrete

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes

*If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: 1960

Other Significant Construction Dates: c. 1970 *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Tax Assessor & aerial photographs

Architect/Builder/Engineer: Unknown

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*

# Minnesota Individual Property Inventory Form

Historic Name: Building 308

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: Steve Gallo, Historian & Saleh Miller, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 9/9/2021

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur
- Does Not Concur
- More Information Needed

#### Historic District Recommendation (NRHP)

- Concur
- Does Not Concur
- More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur
- Does Not Concur
- More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Building 308

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No):

## Narrative Description

Building 308 is located at the Duluth International Airport (DIA), sited north of Airport Road on the southwest side of the airport. This one-story, irregular-shaped building does not have a visible foundation, has concrete walls, and has a low-pitched front gable roof with aluminum coping. There is a one-story addition, constructed between 1961 and 1972, on the south elevation that has a flat roof with metal coping. There is a single-leaf metal door with a single light beneath an aluminum awning on the west-facing facade. Additional fenestration includes fixed aluminum windows, single-leaf steel doors, and a single stall metal overhead door.

### Integrity:

This property retains excellent integrity of location. The integrity of the setting has been compromised by the loss of historic structures to the south (Nationwide Environmental Title Research, LLC [NETR] 2003). The integrity of feeling and association is excellent due to its continued use by the Duluth Composite Squadron of the Civil Air Patrol, an auxiliary of the U.S. Air Force. The integrity of the materials and workmanship is excellent. The integrity of design has been compromised by the addition on the south elevation constructed between 1961 and 1972. Overall, this property retains good integrity.

## Statement of Significance

### Property History:

Building 308 was built in 1960, at which point DIA was under the jurisdiction of the United States Air Force for national defense purposes during the Cold War (RS&H 2015:33; St. Louis County Assessor's Office 2021:2). The primary role of the Duluth Air Base during this time was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). SAGE was a cutting-edge air monitoring program inaugurated in the 1950s that relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). Aerial photography indicates that a one-story addition was constructed on the south elevation between 1961 and 1972 (University of Minnesota [UofM] 1961; UofM 1972).

In the DIA 2015 Master Plan, this building's purpose is classified as a "office building" and was likely originally used as an administrative building by the Air Force (RS&H 2015:176). It is currently occupied by the Duluth Composite Squadron of the Civil Air Patrol (Civil Air Patrol 2021).

### Significance:

Building 308 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Gallo et al. 2021). The property was likely constructed by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE). While SAGE was a critical element of Cold War-era defense, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as an administrative facility. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

This property does not have distinctive characteristics of an architectural style, does not embody a specific time period, and does not serve as the highest or best example of a method of construction. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known



# Minnesota Individual Property Inventory Form

Historic Name: Building 308

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

Recommendation:

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Aaron, Jayne

2011 Historical and Architectural Overview of Aircraft Hangars of the Reserves and National Guard Installations from World War I through the Cold War. Electronic document, <https://denix.osd.mil/cr/historic/cold-war/reserve-and-national-guard-aircraft-hangars/report/>, accessed May 27, 2021.

Fox, Duncan

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed May 27, 2021.

Gallo, Steve, Saleh Miller and Kelli Andre Kellerhals

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

Civil Air Patrol

2021 Duluth Composite Squadron. Electronic Document, <https://duluth.cap.gov/>, accessed June 1, 2021.

Nationwide Environmental Title Research, LLC [NETR]

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RS&H

2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

Sherman, Roger W.

1930 Airplane Hangars: Planning, Fire Protection, Construction Data. Architectural Forum 53(6): 769-778.

St. Louis County Assessor's Office

2021 Property Details Report. Electronic document, <http://reports.stlouiscountymn.gov/ssrswrapper/ShowSSRSReport.aspx?reportPath=%2fAssessor%2fPropertyDetails%2fMain&pdf=true&param1=parcelnum=010-0148-00030>, accessed June 1, 2021.

University of Minnesota [UofM]

1961 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document, <https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

1972 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document, <https://www.lib.umn.edu/apps/mhapo/>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 308

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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Weitze, Karen J.

1999 Cold War Infrastructure for Air Defense: The Fighter and Command Missions. Electronic document,  
<http://docshare04.docshare.tips/files/9112/91128529.pdf>, accessed May 27, 2021.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 308

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-3647 - 5/25/2021 - South & East Elevations, Facing Northeast

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 308

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-3647 - 5/25/2021 - North & West Elevations, Facing Southwest

# Minnesota Individual Property Inventory Form

Historic Name: Building 308

Inventory No: SL-DUL-3647

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



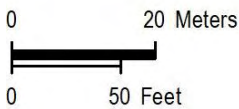
Service Layer Credits: Copyright:© 2013 National Geographic Society, I-cubed; MhGeo Composite Imagery Service

Source: 106 Group, SEH

Map Produced by 106 Group 9/9/2021



**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-3647**  
4848 Lackland Street  
Duluth, St. Louis County, Minnesota



1:1,000



-  Survey Area
-  Inventoried Property

**Map 1**





**106GROUP**

Connecting People + Place + Time

# SUPPLEMENTAL RECONNAISSANCE ARCHITECTURAL HISTORY SURVEY FOR THE DULUTH INTERNATIONAL AIRPORT MASTER PLAN PROJECT

Duluth, St. Louis County, Minnesota

SHPO File No. 2022-0198  
106 Group Project No. 2510

**PRINCIPAL INVESTIGATOR:**  
Lindsey Wallace, M.A.

**SUBMITTED TO:**  
SEH  
3535 Vadnais Center Drive  
St. Paul, MN 55106

**AUTHORS:**  
Lindsey Wallace, M.A.  
Saleh Miller, M.S.

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## INTRODUCTION

During July and August 2023, 106 Group conducted a supplemental reconnaissance architectural history survey of a portion of the Duluth Internal Airport (DIA) as part of the Duluth Airport Master Plan Project (Project). Since 2021, the Project has been refined and includes the construction of a proposed Air Traffic Control Tower (ATCT). Development at the airport will require approval from the Federal Aviation Administration (FAA) and, therefore, would need to comply with Section 106 of the National Historic Preservation Act of 1966, as amended, as well as applicable state mandates governing cultural resources. This survey was conducted under contract for SEH. The Project area is located in Sections 1 and 2, Township 50, Range 15W, Duluth, St. Louis County, Minnesota. Due to Project refinements, the Area of Potential Effects (APE), as defined by FAA, has been expanded since architectural history survey was completed by 106 Group in 2021, therefore this supplemental report was prepared to provide updates.

## Methodology

The APE generally includes all properties that may have direct or indirect effects from the proposed ATCT. Since studies were completed in 2021, the APE now includes additional properties that are of

sufficient age for survey, including Buildings 100 (SL-HER-040), 301 (SL-DUL-4033), and 311 (SL-DUL-2634) (see Figure 1).

To prepare this analysis, the previous documentation on the DIA Master Planning Project was reviewed, including the *Duluth Airport Authority Airport Master Plan Update* completed by RS&H in 2015, and architectural history surveys completed by 106 Group in 2006 and 2021 (Bradley et al. 2006:13; RS&H 2015; Miller et al. 2021a and 2021b). These materials were supplemented with online research in order to understand the development era of the APE. SEH provided onsite field survey photos for Buildings 100, 301, and 311.

## Background Information

In 2021, a literature review was conducted for this Project and is summarized in the *Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project* report (SHPO File No. 2022-0198) and the *Intensive Architectural History Survey of Hangar 101 for the Duluth International Airport Master Plan Project* report (SHPO File No. 2022-0198), which are on file at the State Historic Preservation Office (Miller et al. 2021a, 2021b). No additional architectural history studies have been completed within the APE since 2021.

## Results & Recommendations

Properties that have not been included in studies completed within the last 10 years that are located in the APE include:






- One property 45 years of age or older that was included in the 2021 architectural history reconnaissance survey for the DIA Master Plan Project but had been erroneously labeled as not of age for survey (SL-HER-040);
- One property 45 years of age or older that was not included in the APE for the DIA Master Plan Project (SL-DUL-4033);
- One property that was previously outside the Project APE and was previously inventoried, whose integrity needed to be confirmed (SL-DUL-2634);
- And two properties that are less than 45 years of age (Buildings 6 and 7).

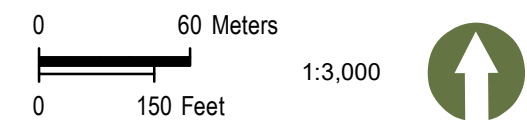
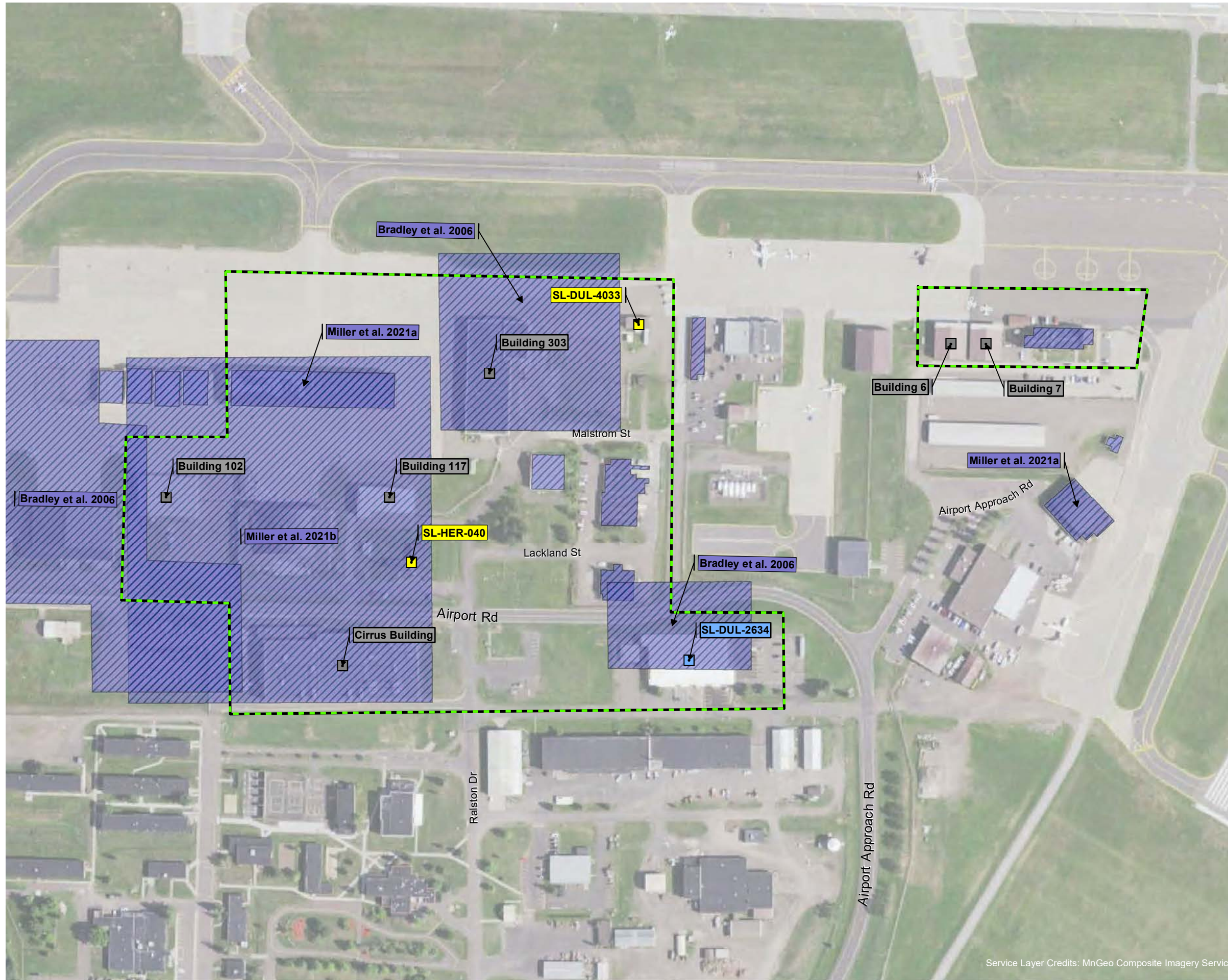
Building 311 (SL-DUL-2634), which had been inventoried in 2006, retains integrity, and therefore preparation of an updated form for the property is not required. The two properties (SL-HER-040 and SL-DUL-4022) that had not been previously surveyed are not recommended for further intensive survey due to a lack of historical significance. Minnesota Individual Property Inventory Forms have been prepared for these properties. No further architectural history work is recommended for the Project as currently proposed.



**Duluth International Airport  
Master Plan Supplemental  
Reconnaissance Architectural  
History Survey**

Duluth, St. Louis County, Minnesota

-  Architectural History APE
-  Previously Surveyed
-  Not Recommended for Intensive Survey
-  Previously Inventoried, Integrity Confirmed
-  Not of Age



Project Location, APE, and Results

Service Layer Credits: MnGeo Composite Imagery Service

Map Produced by 106 Group 8/11/2023

Source: 106 Group; MN SHPO; MnDOT; SEH

**Figure 1**



## REFERENCES CITED

Bradley, Betsy H., LeeAnn E. Barnes and Mark Doperalski [Bradley et al.]

*2006 Cultural Resources Survey of the Duluth Air National Guard Base, Duluth, St. Louis County, Minnesota.* Prepared by 106 Group, St. Paul, Minnesota. On file at the State Historic Preservation Office, St. Paul, Minnesota.

Miller, Saleh, Steve Gallo, and Kelli Andre Kellerhals [Miller et al.]

*2021a Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota.* Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota. On file at the Minnesota State Historic Preservation Office, St. Paul, Minnesota.

*2021b Duluth International Airport Master Plan Project Intensive Architectural History Survey of Hangar 101 Duluth, St. Louis County, Minnesota.* Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota. On file at the Minnesota State Historic Preservation Office, St. Paul, Minnesota.

RS&H

*2015 Duluth Airport Authority Airport Master Plan Update.* Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

SEH

*2023 Architectural History Assessment: Duluth International Airport.* Prepared for FAA, July 13.

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Building 301

Other Names: Airport Electrical Vault

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_

New or Updated Form: New Review and Compliance No.: 2022-0198

Extant: Yes Agency Proj No.: \_\_\_\_\_

Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4859 Malstrom Street

County(s): Saint Louis City/Twp(s): Duluth

Total Acres: \_\_\_\_\_

USGS 7.5 Quad Name(s): Duluth Heights, 1993

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15		1			

### UTM Coordinates:

Datum: NAD 83

UTM Zone	Easting	Northing
15N	561447.558m	5187613.962m

### Urban:

Subdivision: AIRPORT DIVISION

Block(s): \_\_\_\_\_

Lot(s): \_\_\_\_\_

Property Identification Number (PIN): 010-0148-00250

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_

Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_

Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_

Within a CEF District  
Contributing Status: \_\_\_\_\_

Within a SEF District  
Contributing Status: \_\_\_\_\_

Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Building 301  
Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.):

Name	Inv Number	Property Category	Contributing Status
Mechanicals Outbuilding		Building	

Property Category : Building

Number of Resources on the Property:

Buildings: 2 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Concrete

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.  Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.  Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.  Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.  Yes  No  More Research Recommended

Criteria Considerations?  No  Yes

*If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: circa 1951

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial Photographs, 1951 Preliminary Master Plan

Architect/Builder/Engineer: \_\_\_\_\_

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

# Minnesota Individual Property Inventory Form

Historic Name: Building 301

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

*Complete Bibliography on Continuation Sheet.*

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: L. Wallace, Sr Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 8/9/2023

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Building 301

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Building 301 is located at the Duluth International Airport (DIA), at 4859 Malstrom Street, sited north of Airport Road and south of Perimeter Road, on the southwest side of the airport. This one-story rectangular building rests on a concrete foundation, has a flat roof with aluminum coping, and is constructed of concrete block. The west-facing façade features a vehicular bay. The east elevation features a pedestrian entrance. Neither the north nor the south elevation features any fenestration. At the south elevation, there are three temporary metal trailers and a shed structure. A rectangular metal outbuilding sits on a poured concrete slab to the south of the building and appears to hold mechanicals. Immediately adjacent to the building's northwest corner is a multi-story metal streetlight anchored in poured concrete. Visible fenestration includes a metal overhead garage door with a central window; a single-leaf metal door; and metal grates in infilled window openings.

### Integrity

This property retains excellent integrity of location. The integrity of the setting has been compromised by the construction of buildings immediately surrounding at the west, south, and east of Building 301 between 1952 and 1972; the addition of the outbuilding and temporary trailers and shed between 1991 and 2003; and the deconstruction of a building to its southwest between 2010 and 2013 (University of Minnesota 1972; Nationwide Environmental Title Research, LLC [NETR] 1952, 1991, 2003, 2010, 2013). The integrity of feeling and association is good. The integrity of design, materials, and workmanship have been compromised by the infilling of windows and the replacement of the garage door at an unknown date. Overall, this property retains fair integrity.

## Statement of Significance

### Property History

Building 301 was constructed by 1951, as it is depicted in both the preliminary master plan for the proposed development of the air base, prepared for the U.S. Air Force in September 1951, and in a 1952 aerial photograph (Richard Hawley Cutting & Associates 1951; NETR 1952; Bradley et al. 2006). In 1948, the Air National Guard ANG has been established in Duluth through the reactivation of the 179th Fighter Squadron, which was part of the 133rd Fighter Group that was headquartered in St. Paul. Permanent facilities were built for the ANG between 1948 and 1951, including taxiways, a main hangar, a heating plant, a sewage disposal facility, a water tank, the squadron operations and headquarters building, and more (Bradley et al. 2006:13-14). Also in 1951, the Central Air Defense Force of the Aerospace Defense Command (ADC) took jurisdiction over the airport at Duluth, but the Air Force also had control of the Duluth ANG facilities while that unit was federalized. The Air Force began to develop a base on DIA grounds, located south of the main runway at the airport. Between 1951 and 1953, multiple facilities were constructed there, including a motor service building, a crash and rescue station, a heating plant, a ground control approach and instrument landing system, aircraft hangars, exchange building, ammunition storage area, runway and taxiway extensions and improvements, mess facility, administration buildings, readiness building, and communication and utility systems. Additionally, a new base headquarters building was completed in 1954, and a family housing facility was added to the base in 1956 (Bradley et al. 2006:20). Building 301 is the Airport electrical vault, housing a 2,400-volt diesel generator for standby power for runway and taxiway lights (RS&H 2015).

### Significance

Building 301 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Miller et al. 2021). The property was constructed by the United States Air Force during its initial development of the DIA as an air base for national defense during the Cold War era. After the base's construction, the primary role of the Duluth Air Base was air defense and radar monitoring, particularly through the Semi-Automatic Ground Environment System (SAGE), which was not housed at DIA grounds until 1957. SAGE was a military project implemented during the Cold War that was designed to watch the skies for any hostile aircraft, as well as calculate interception patterns for incoming targets. Though constructed during the Air Force's initial development of the DIA as an air base, it did not play a significant role in the history of aviation or strategic defense

# Minnesota Individual Property Inventory Form

Historic Name: Building 301

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

in the region. Further, it is unlikely that it ever housed any strategic defense equipment associated with SAGE, as it has likely always been an electrical vault. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

This property does not have distinctive characteristics of an architectural style, does not embody a specific time period, and does not serve as the highest or best example of a method of construction. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

## Recommendation

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Bradley, Betsy H., LeeAnn E. Barnes and Mark Doperalski [Bradley et al.]

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**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 301

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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Richard Hawley Cutting & Associates

1951 Duluth Municipal Airport: Preliminary Master Plan. Electronic document,

<https://www.davidrumsey.com/luna/servlet/detail/RUMSEY~8~1~314781~90083677>, accessed July 31, 2023.

RS&H

2015 Duluth Airport Authority Airport Master Plan Update. Electronic document, <https://duluthairport.com/wp-content/uploads/2015/07/Updated-Master-Plan-061215-Binder1.pdf>, accessed May 27, 2021.

University of Minnesota [UofM]

1972 Minnesota Historical Aerial Photographs Online. Duluth, St. Louis County, Minnesota. Electronic document, <https://www.lib.umn.edu/apps/mhapo/>, accessed July 26, 2023.

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 301

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

**Property Photograph(s)**



SL-DUL-4033 - 7/25/2023 - Building 301, West-Facing Façade, South Elevation, and Mechanicals Outbuilding, Facing Northeast



**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 301

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-4033 - 7/25/2023 - Building 301, North Elevation, Facing South

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 301

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-DUL-4033 - 7/25/2023 - Building 301, East Elevation, Facing West

# Minnesota Individual Property Inventory Form

Historic Name: Building 301

Inventory No: SL-DUL-4033

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Source: 106 Group, SEH

Map Produced by 106 Group 8/9/2023

**Duluth International Airport  
Master Plan Project**  
Duluth, St. Louis County, Minnesota

**SL-DUL-4033**  
4859 Malstrom S  
Duluth, St. Louis County, Minnesota

0 20 Meters  
0 50 Feet

1:1,000



- Survey Area
- Inventoried Property

Map 1

# Minnesota Individual Property Inventory Form

Please refer to the Historic and Architectural Survey Manual before completing this form.

Must use Adobe Acrobat Reader to complete and save this form. Adobe Acrobat Reader can be downloaded at: <https://get.adobe.com/reader/?promoid=KLXME>

## General Information

Historic Name: Building 100

Other Names: Hermantown Hydraulics and Jet Duluth Aircraft Services

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No.): \_\_\_\_\_

New or Updated Form: New Review and Compliance No.: 2022-0198

Extant: Yes Agency Proj No.: \_\_\_\_\_

Survey Type: Reconnaissance (Phase I) Grant No.: \_\_\_\_\_

## Location Information

Street Address: 4905 Airport Road

County(s): Saint Louis City/Twp(s): Duluth

Total Acres: \_\_\_\_\_

USGS 7.5 Quad Name(s): Duluth Heights, 1993

TOWNSHIP	RANGE	E/W	SECTION	QQQ	QQ	Q
50	15		2			

### UTM Coordinates:

Datum: NAD 83

UTM Zone	Easting	Northing
15N	561267.450m	5187435.335m

### Urban:

Subdivision: CITY OF DULUTH

Block(s): \_\_\_\_\_

Lot(s): \_\_\_\_\_

Property Identification Number (PIN): 010-0000-21300

## Previous Determinations

### Previous Individual Determination:

- National Register Listed
- NPS DOE
- State Register Listed
- CEF
- SEF
- Locally Designated
- Not Eligible

### Previous District Determination:

District Name: \_\_\_\_\_

Within a National Register-Listed District  
Contributing Status: \_\_\_\_\_

Within a State Register-Listed District  
Contributing Status: \_\_\_\_\_

Within a CEF District  
Contributing Status: \_\_\_\_\_

- Within a SEF District  
Contributing Status: \_\_\_\_\_
- Within a Locally Designated District  
Contributing Status: \_\_\_\_\_

# Minnesota Individual Property Inventory Form

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Classification

Associated Properties (Name and Inventory No.): \_\_\_\_\_

Property Category : Building

Number of Resources on the Property:

Buildings: 1 Structures: \_\_\_\_\_ Sites: \_\_\_\_\_ Objects: \_\_\_\_\_

## Function or Use

### Historic:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

### Current:

Function/Use Category	Function/Use Subcategory
Transportation	air-related

Function/Use Category (if other) \_\_\_\_\_

Function/Use Subcategory (if other) \_\_\_\_\_

## Description

*Provide full Narrative Description on Continuation Sheet.*

Architectural Style: No Style

Architectural Style (if other): \_\_\_\_\_

Exterior Material: Wood

Exterior Material (if other): \_\_\_\_\_

## Significance

*Provide full Statement of Significance on Continuation Sheet.*

### Applicable National Register of Historic Places Criteria:

Criterion A: Property is associated with significant events.

Yes  No  More Research Recommended

Criterion B: Property is associated with the lives of significant persons.

Yes  No  More Research Recommended

Criterion C: Property has significant architectural characteristics.

Yes  No  More Research Recommended

Criterion D: Property may yield important information in history/prehistory.

Yes  No  More Research Recommended

Criteria Considerations?  No  Yes

*If yes, describe in Statement of Significance on Continuation Sheet.*

Area of Significance: \_\_\_\_\_

Additional or Other Area(s) Significance: \_\_\_\_\_

Period(s) of Significance: \_\_\_\_\_

Date(s) Constructed: Circa 1952-1961

Other Significant Construction Dates: \_\_\_\_\_ *Discuss in Statement of Significance on Continuation Sheet.*

Date Source(s): Aerial Phtographs; 1951 Preliminary Master Plan

Architect/Builder/Engineer: \_\_\_\_\_

Architect/Builder/Engineer Documentation: \_\_\_\_\_

## Bibliography

*Complete Bibliography on Continuation Sheet.*

# Minnesota Individual Property Inventory Form

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Additional Documentation

For all properties, the following additional documentation must be submitted with the inventory form. Refer to the Historic and Architectural Survey Manual for guidance.

1. Photographs
2. Maps

## Preparer's Information and Recommendation

Preparer Name and Title: L. Wallace, Sr. Architectural Historian

Organization/Firm (if applicable): 106 Group

Date Inventory Form Prepared: 8/9/2023

Recommended Individual Evaluation:

- Eligible for the National Register
- Not Eligible for the National Register
- More Information Needed for Evaluation
  
- Eligible for Local Designation
- Not Eligible for Local Designation
- More Information Needed for Local Designation

Recommended District Evaluation:

- Within a National Register-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_
  
- Within a Locally-Eligible District
  - Contributing Status: \_\_\_\_\_
  - District Name: \_\_\_\_\_
  - District Inventory Number: \_\_\_\_\_

### Minnesota Historic Preservation Office Comments (MnHPO Use Only)

Initials: \_\_\_\_\_ Date: \_\_\_\_\_

#### Individual Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Historic District Recommendation (NRHP)

- Concur       Does Not Concur       More Information Needed

#### Contributing/Noncontributing Status Recommendation

- Concur       Does Not Concur       More Information Needed

Comments:

# Minnesota Individual Property Inventory Form

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

## Narrative Description

Building 100 is located at the Duluth International Airport (DIA), at 4905 Airport Road, sited north of Airport Road on the southwest side of the airport. This L-shaped building is clad in painted clapboard and features a concrete block foundation. The building's L-shape is formed by its two volumes. The primary volume is one-and-one-half stories tall with a nearly square plan and a low-pitched, front-gable roof with metal coping. Attached at its southwest corner is a one-story volume with a rectangular plan, which has a flat roof with metal coping and is oriented lengthwise from east to west. The south-facing façade of the building runs the entire length of both volumes. The façade features both a large vehicular bay and a pedestrian entrance. The western third of the one-story volume projects south slightly beyond the rest of the façade. The building's primary entryway is located immediately east of that extension and is accessed by an open concrete patio. The patio and entryway are surmounted by a flat roof supported by a square wood post. The east elevation of the one-story volume features an exterior, multi-story common bond brick chimney. There is a secondary entryway located immediately north of the chimney. At the north end of the one-and-one-half story volume, there is a one-story section that projects from the north and west elevations. Visible fenestration includes an overhead garage door of an unknown material; a single-leaf, glass-and-metal door; a single-leaf, wood-frame, metal door; a single-leaf, vinyl-and-glass door with a vinyl-and-glass storm door; a single-leaf, vinyl, paneled door; single, paired, and grouped wood-enframed, two-over-two, double-hung wood windows with vinyl storm windows; a wood-framed, sliding metal window; and infilled window openings.

### Integrity

This property retains excellent integrity of location. The integrity of the setting has been compromised by the loss of historic structures to the east and south; the construction of building directly to its north sometime between 1961 and 1975; and the construction of a replacement building to its south between 2015 and 2017 (University of Minnesota 1961; Nationwide Environmental Title Research, LLC [NETR] 1975, 2015, 2017). The integrity of feeling and association is good. The integrity of design, materials, and workmanship have been compromised by the infilling of windows and doors. Overall, this property retains fair integrity.

## Statement of Significance

### Property History

Building 100 was likely constructed between 1952 and 1961, after the Air National Guard (ANG) unit was established in Duluth through the reactivation of the 179th Fighter Squadron, which was part of the 133rd Fighter Group that was headquartered in St. Paul (University of Minnesota 1948, 1961; Bradley et al. 2006:13). A preliminary master plan map for the proposed development of the air base, prepared for the U.S. Air Force in September 1951, the area in which Building 100 is located as "Administration & Training." The master plan map depicts a building in the vicinity of where Building 100 exists today, but the building footprint differs. More significantly, Building 100 does not appear in a 1952 aerial photograph, suggesting a later build date (Richard Hawley Cutting & Associates 1951; Nationwide Environmental Title Research, LLC [NETR] 1952).

Building 100 may have been constructed when the facility for the cutting-edge Semi-Automatic Ground Environment System (SAGE) air monitoring program was constructed at DIA between 1957-1959. SAGE relied on a network of 23 installations located throughout the United States. Each installation housed two IBM AN/FSQ-7 computers that continuously ran one of the largest programs ever written at the time and communicated via an early version of the internet to create a map of U.S. airspace, monitor for any approaching aircraft, and plot an intercept course for surface-to-air missiles or fighter planes (Fox 2016). For much of the Cold War, Air Force Fighter Interceptor Squadrons (FIS) stood at alert on bases in Duluth and Minneapolis, ready to protect the U.S. from attack from foreign enemies (Bradley et al. 2006:20). During the Cold War, the Duluth Air Base had missions that were related to, but separate from, those of the Air National Guard. The main mission of the units stationed at the Duluth Air Base was air defense. The airport was renamed DIA in 1961 (Miller et al. 2021).

# Minnesota Individual Property Inventory Form

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No):

Through reorganization and reassignment of defense missions, the Duluth Air Base was deactivated in 1981 by the United States Air Force (Bradley et al. 2006:21). The ANG inherited portions of the Duluth Air Base and much of the area was converted into a Federal Prison Camp, which is still operational. The southwest quadrant of the airport is now the core area for general aviation, air cargo, and special aviation service organizations (RS&H:41-42).

Building 100 is currently occupied by Hermantown Hydraulics, a hydraulics repair service, and Jet Duluth Aircraft Services, an aircraft rental service (Google 2023).

## Significance

Building 100 was evaluated within the "History of the Duluth International Airport, 1929-present" historic context prepared by the 106 Group (Miller et al. 2021). The property was likely constructed by the United States Air Force during the DIA's use as an air base for national defense during the Cold War era. The primary role of the Duluth Air Base during this period was air defense and radar monitoring, particularly through SAGE. While SAGE was a critical element of Cold War-era national defense, it is unlikely that this property housed any strategic defense equipment associated with the program and was likely used as maintenance building. Therefore, it does not have significance under NRHP Criterion A.

This property is not known to be associated with significant individuals and, therefore, it does not have significance under NRHP Criterion B.

This property does not have distinctive characteristics of an architectural style, does not embody a specific time period, and does not serve as the highest or best example of a method of construction. Therefore, it does not have significance under NRHP Criterion C, in the area of Architecture. This property is not associated with a known architect or builder. Therefore, this property does not have significance under NRHP Criterion C as the work of a master.

This property has not yielded, nor is it likely to yield, information important in prehistory or history. Therefore, it does not have significance under NRHP Criterion D.

## Recommendation

No intensive survey is recommended for this property due to a lack of historical significance.

## Bibliography

Bradley, Betsy H., LeeAnn E. Barnes and Mark Doperalski [Bradley et al.]  
2006 Cultural Resources Survey of the Duluth Air National Guard Base, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. On file at the State Historic Preservation Office, St. Paul, Minnesota.

Fox, Duncan

2016 Duluth, MN SAGE Direction Center. Electronic document, <https://ss.sites.mtu.edu/mhugl/2016/10/16/duluth-mn-sage-direction-center/>, accessed July 26, 2023.

Miller, Saleh, Steve Gallo, and Kelli Andre Kellerhals [Miller et al.]

2021 Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.

Miller, Saleh, Steve Gallo, and Lindsey Wallace

2023 Supplemental Analysis for the Duluth International Airport Master Plan Project Duluth, St. Louis County, Minnesota. Prepared by 106 Group, St. Paul, Minnesota. Submitted to SEH, St. Paul, Minnesota.



# Minnesota Individual Property Inventory Form

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

---

Nationwide Environmental Title Research, LLC [NETR]

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**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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**Property Photograph(s)**



SL-HER-040 - 7/25/2023 - South-Facing Façade, Facing North

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-HER-040 - 7/25/2023 - North and West Elevations, Facing Southeast

**Minnesota Individual Property  
Inventory Form**

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_

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SL-HER-040 - 7/25/2023 - East Elevation, Facing West

# Minnesota Individual Property Inventory Form

Historic Name: Building 100

Inventory No: SL-HER-040

Associated MN Multiple Property Form (Name and Inventory No): \_\_\_\_\_



Source: 106 Group, SEH

Map Produced by 106 Group 8/9/2023

## Duluth International Airport Master Plan Project

Duluth, St. Louis County, Minnesota

## SL-HER-040

4905 Airport Rd

Hermantown, St. Louis County, Minnesota

0 20 Meters  
0 50 Feet

1:1,000



- Survey Area
- Inventoried Property

Map 1

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**Appendix G**

**Section 106 SHPO and THPO Correspondence**

**G1 - MN SHPO's Letter of Concurrence with the FAA's No Effect  
Finding - November 1, 2023**

**G2 - Documentation of Section 106 No Historic Properties Affected**

**G3 - THPO Correspondence Letters**



November 1, 2023

Melissa Jenny  
Environmental Protection Specialist  
Federal Aviation Administration  
Dakota – Minnesota Airports District Office  
6020 28th Avenue South, Room 102  
Minneapolis, MN 55450

RE: Duluth International Airport (DLH) Air Traffic Control Tower (ATCT) Replacement Project  
Duluth, St Louis County  
SHPO Number: 2023-3042

Dear Melissa Jenny:

Thank you for the opportunity to comment on the above referenced project. It has been reviewed pursuant to the responsibilities given the State Historic Preservation Officer by Section 106 of the National Historic Preservation Act (54 U.S.C. § 306108) and its implementing federal regulations, “Protection of Historic Properties” (36 CFR Part 800).

#### **Define Undertaking and Area of Potential Effects**

As stated in your correspondence, the Duluth Airport Authority is proposing to demolish the existing Air Traffic Control Tower (ATCT) at the Duluth International Airport and construct a new ATCT and Terminal Radar Approach Control (TRACON) facility. The proposed project includes demolition of the existing ATCT/Building 616 (SL-DUL-3638), construction of a new ATCT and TRACON facility, construction of a vehicle parking lot, reconstruction and realignment of Stebner Road, demolition of Building 306/DHL Building/Cold Storage (SL-DUL-3640), and demolition of Building 100/Hermantown Hydraulics Building (SL-HER-040). We have reviewed the documentation provided in regards to your agency’s determination of the area of potential effect (APE) for the Federal undertaking. We agree that this APE determination is generally appropriate to take into account the potential direct and indirect effects of the proposed undertaking as we currently understand it.

#### **Identification of Historic Properties**

##### **History/Architecture Properties**

We have reviewed the submitted report, *Supplemental Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project, Duluth, St. Louis County*, (August 2023, 106 Group) (Report) and associated inventory forms. According to the information provided, there are sixteen (16) properties located within the APE for this project. Six (6) of the properties are less than 45 years of age: Building 102, Building, 117, the Cirrus Building, Building 303, Building 6, and Building 7. Eight (8) of the properties have previously been surveyed. One of them, Hangar 101 (SL-DUL-3641), was determined eligible for listing in the National Register of Historic Places (NRHP) and has since been demolished. We previously agreed that seven (7) of the properties warrant no further Phase II survey: Hangar 104 (SL-

DUL-3645), Building 306/DHL Building/Cold Storage (SL-DUL-3640), Building 305/Hydro Solutions of Duluth (SL-DUL-3646), Building 308/Duluth Composite Squadron, Civil Air Patrol (SL-DUL-3647), Building 304/Warehouse, Duluth Air National Guard Building (SL-DUL-2633), Building 311/Warehouse, Duluth Air National Guard Building (SL-DUL-2634), and Building 616/Air Traffic Control Tower (SL-DUL-3638). Finally, based on the documentation provided in the most recent Report and associated inventory forms, we agree that no further Phase II survey is warranted for the remaining two properties located within the APE for this project: **Building 100/Hermantown Hydraulics and Jet Duluth Aircraft Services (SL-HER-040)** and **Building 301/Airport Electrical Vault (SL-DUL-4033)**.

#### **Archaeological Resources**

We agree that a Phase I archaeological survey is not warranted for the project as it is currently proposed.

#### **Finding of Effect**

Based on information that is available to us at this time, we concur with your agency's finding of **No Historic Properties Affected**.

#### **Consulting Parties**

It is our understanding that the Federal Aviation Administration (FAA) is concurrently consulting with Native American tribes who may have a current or ancestral interest in this area of the state. Therefore, the FAA will need to reopen consultation with our office if any tribes express concerns or disagreement with agency efforts to identify historic properties and/or the assessment of adverse effects.

Implementation of the undertaking in accordance with this finding, as documented, fulfills your agency's responsibilities under Section 106. If the project is not constructed as proposed, including, but not limited to, a situation where design changes to the currently proposed project diverts substantially from what was presented at the time of this review, then your agency will need to reopen Section 106 consultation with our office pursuant to 36 CFR 800.5(d)(1).

If you have any questions regarding our review of this project, please contact Kelly Gragg-Johnson, Environmental Review Program Specialist, at (651) 201-3285 or [kelly.graggjohnson@state.mn.us](mailto:kelly.graggjohnson@state.mn.us).

Sincerely,



Sarah J. Beimers  
Environmental Review Program Manager





U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Federal Aviation Administration  
Dakota-Minnesota Airports District Office  
Bismarck Office  
2301 University Drive, Building 23B  
Bismarck, ND 58504

Federal Aviation Administration  
Dakota-Minnesota Airports District Office  
Minneapolis Office  
6020 28th Avenue South, Suite 102  
Minneapolis, MN 55450

August 25, 2023

State Historic Preservation Office  
c/o Kelly Gragg-Johnson  
50 Sherburne Ave, Suite 203  
St. Paul, MN 55155

Re: Determination of Effect for the Duluth International Airport (DLH) Air Traffic Control Tower (ATCT) Replacement Project, St. Louis County, Minnesota

Dear Ms. Gragg-Johnson

The FAA has determined that a Section 106 finding of *No Historic Properties Affected* is applicable for the DLH ATCT Replacement Project, as described further in the attached Section 106 findings memo. The FAA respectfully requests the Minnesota State Historic Preservation Office to provide written concurrence with the Section 106 determination of *No Historic Properties Affected* for the above reference project.

If you have any questions please contact me via email at [Melissa.m.jenny@faa.gov](mailto:Melissa.m.jenny@faa.gov) or by phone at (612) 253-4633.

Sincerely,

A handwritten signature in black ink that reads "Melissa Jenny".

Melissa Jenny  
Environmental Protection Specialist  
FAA Dakota-Minnesota Airports District Office

FEDERAL AVIATION ADMINISTRATION  
DOCUMENTATION OF SECTION 106 FINDING OF  
NO HISTORIC PROPERTIES AFFECTED

SUBMITTED TO THE MINNESOTA STATE HISTORIC PRESERVATION OFFICER (SHPO)  
PURSUANT TO 36 CFR Section 800.4(d)(1) for the DULUTH INTERNATIONAL AIRPORT –  
AIR TRAFFIC CONTROL TOWER REPLACEMENT PROJECT

## **1. DESCRIPTION OF THE UNDERTAKING**

The Duluth Airport Authority (DAA), as the sponsor of the Duluth International Airport (DLH or Airport), is proposing to replace the existing Air Traffic Control Tower (ATCT) at DLH with the construction of a new ATCT and Terminal Radar Approach Control (TRACON) facility at a site identified during a recent FAA Airway Facilities Tower Integration Laboratory (AFTIL) Study. The existing ATCT was constructed in the late 1950s on top of the old terminal building. The existing tower does not meet FAA standards for an ATCT. The proposed tower replacement project would include the following elements:

### **Construction of a New Air Traffic Control Tower**

This proposed action includes the construction of a new ATCT that will meet the requirements outlined in the FAA's Siting Facility Requirements Workbook. This will include the construction of an appropriately sized tower structure at the location identified during the AFTIL study, a base building which will include offices, training rooms, and other support facilities for the operation of the TRACON and the ATCT, and a vehicle parking lot as required by the FAA. The ATCT will also provide space for the FAA Tech Ops team based in DLH.

### **Reconstruction and Realignment of Stebner Road**

Per FAA requirements, a site of at least approximately 3 acres is needed for the development of the ATCT. To meet this requirement and to provide enough space for all the required facilities of the ATCT, Stebner Road must be realigned. The reconstruction and realignment of the roadway would require the demolition of Building 306 ("DHL building," a cold storage building owned and utilized by DAA).

### **Demolition of Building 306 (DHL Building/Cold Storage)**

Building 306 is a pre-engineered metal cold storage building and is currently used as a cold storage building by the Airport. With the reconstruction and realignment of Stebner Road as discussed above, the building would need to be demolished to allow for the road realignment. DAA storage uses would be relocated to other DAA-owned buildings.

### **Demolition of Hermantown Hydraulics Building**

The Hermantown Hydraulics building is located at the site of the proposed ATCT development. The building would need to be demolished for the construction of the ATCT.

### **Removal of the existing Air Traffic Control Tower**

As part of the construction of the new ATCT facility, the existing tower facility would also need to be removed as the existing tower blocks clear site lines from the new ATCT to the

movement area. The structure where the existing ATCT is located is a multistory building previously utilized as the Airport's terminal building. The structure currently houses ATCT facilities. This action would involve the demolition of the entire multi-story facility as the condition of the building has deteriorated to an extent where maintaining the facility is not feasible. The existing ATCT site will be repurposed with near-term use expected to accommodate winter snow storage from snow removal operations.

## **2. AREA OF POTENTIAL EFFECT**

The Area of Potential Effect (APE) is the area within which an undertaking may affect a historic property, either directly or indirectly. The direct effect (archaeology) APE for this project is identified on the attached Figure 2; this APE aligns with the project's construction limits. The indirect effect (architectural) APE for this project is identified in the attached Figure 3; this APE includes all structures adjacent to the existing ATCT proposed to be demolished and the new ATCT location.

## **3. EFFORTS TO IDENTIFY HISTORIC PROPERTIES**

### **Architectural History**

In 2006 the 106 Group conducted an architectural history survey for property owned or leased by the Duluth Air National Guard Base (ANGB) at the Airport (Bradley et al. 2006.) Building 311 (SL-DUL-2634), located within the ATCT project's indirect effect APE, was evaluated in this report and was recommended as not eligible for listing on the NRHP.

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- One property 45 years of age or older that was included in the 2021 architectural history reconnaissance survey for the Airport Master Plan Project but had been erroneously labeled as not of age for survey (Hermantown Hydraulics building/SL-HER-040);

- One property 45 years of age or older that was not included in the APE for the Airport Master Plan Project (SL-DUL-4033);
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**Indirect effects to existing structures:** All of the existing buildings within the ATCT project's indirect effect APE have been reviewed in the reports above. The buildings have not been recommended for further intensive survey due to a lack of historical significance or they are less than 45 years old. In addition, the indirect effects APE was limited to buildings directly adjacent to the project's construction sites because this project would not cause adverse effects to other existing structures at the airport. This is an airport improvement project occurring on airport property.

**Archaeology:** The areas within the direct effect APE for this project have been heavily disturbed due to airport construction activities and have low likelihood for intact below ground cultural resources. An archaeological resource survey was not completed for this project. An archaeological survey was completed at DLH in 2006 including property owned or leased by the ANGB. The area reviewed in the report is near the ATCT APE but does not cover the entire ATCT APE. The archaeological investigation in the report consisted of review of previously recorded sites and some field testing, which was concentrated around portions of the base northeast of the ATCT APE. No archaeological resources were found.

On August 25, 2023, an invitation to consult for the project under 36 CFR 800.3 was emailed to the Fond du Lac Band of Lake Superior Chippewa Tribal Historic Preservation Officer (THPO), the Bois Forte Band of Chippewa THPO, and the Grand Portage Band of Ojibwe THPO.

#### **4. BASIS FOR FINDING**

A review of the MN Office of the State Archeologist (OSA) Web Portal (<https://osa.gisdata.mn.gov/osa-viewer>) did not identify any known resources in the same section as the project area. All ground disturbing activities are proposed in areas that have been previously disturbed with airport construction; these areas have low potential to harbor intact or significant cultural resources. The structures proposed for demolition are not historic as documented in architectural history reports completed at the airport, and existing buildings adjacent to planned construction areas, within the project's indirect effect APE, are not historic. Therefore, the FAA has determined that a finding of *No Historic Properties Affected* is appropriate for this project. The FAA respectfully requests that the SHPO provide written concurrence with this finding.

#### **ATTACHMENTS**

Figures 1-6, Project location, APE and proposed layout figures

Figures 7-9, 2006 and 2021 architectural history survey areas

#### Provided Report:

2023 Supplement to Duluth Airport Master Plan Reconnaissance Architectural History Report – 106 Group

#### Referenced Reports:

2006 Cultural Resource Survey for the Duluth Air National Guard Base – 106 Group

2021 Duluth Airport Master Plan Reconnaissance Architectural History Report – 106 Group

2021 Hangar 101 Intensive Architectural History Report – 106 Group

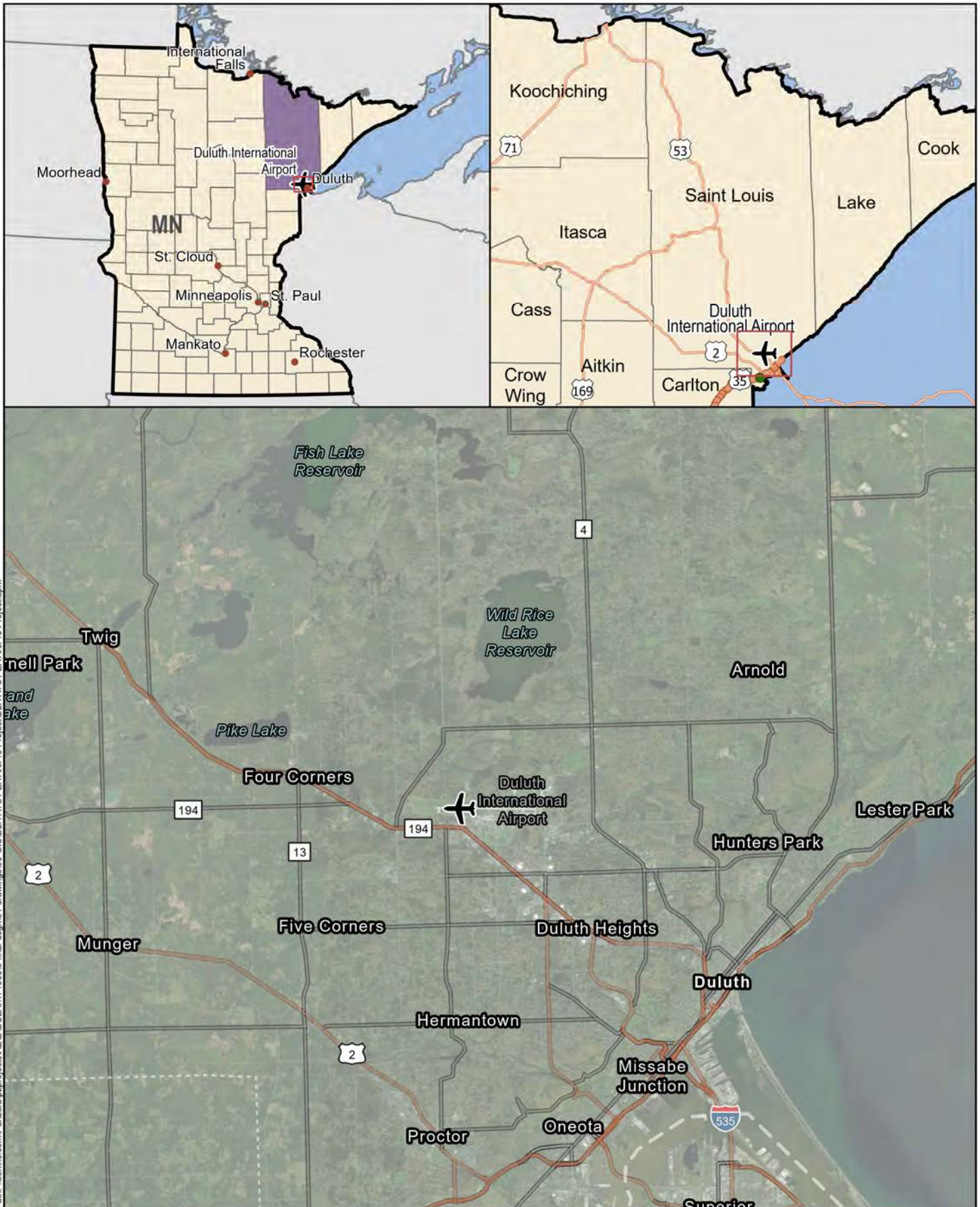


# Air Traffic Control Tower Environmental Assessment

Figure 1

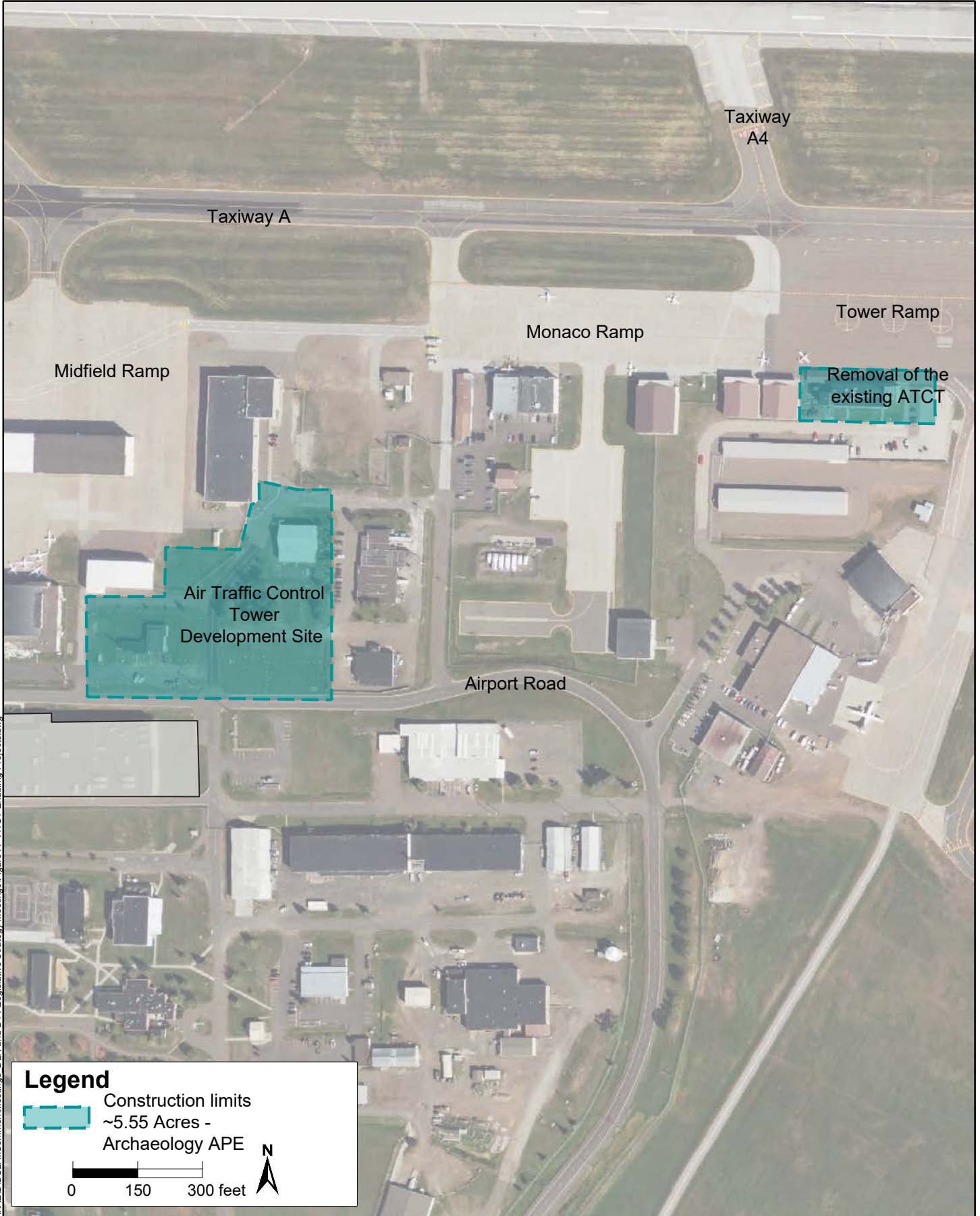
Duluth International Airport  
Duluth, Minnesota

Location Map  
04/2023; DULAI 171568








Path: \\sehinc.com\panzura\proj\projects\AE\ID\ULAI171568\5-final-dsgm\51-drawings\90-GIS\DLH\ATCT EA ArcPro Project\DLH\ATCT EA ArcPro Project.aprx

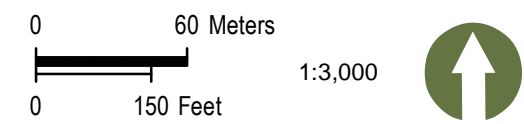
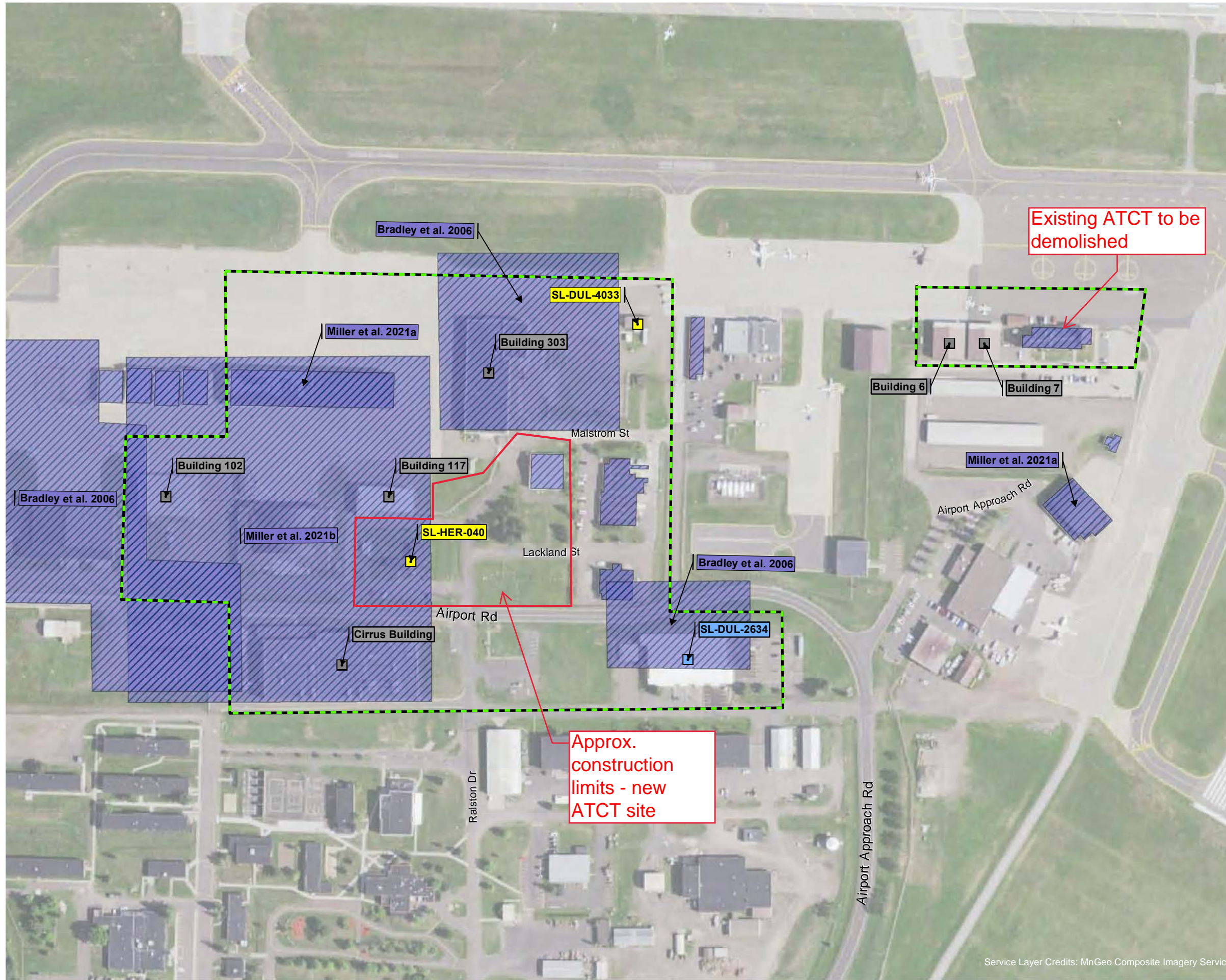






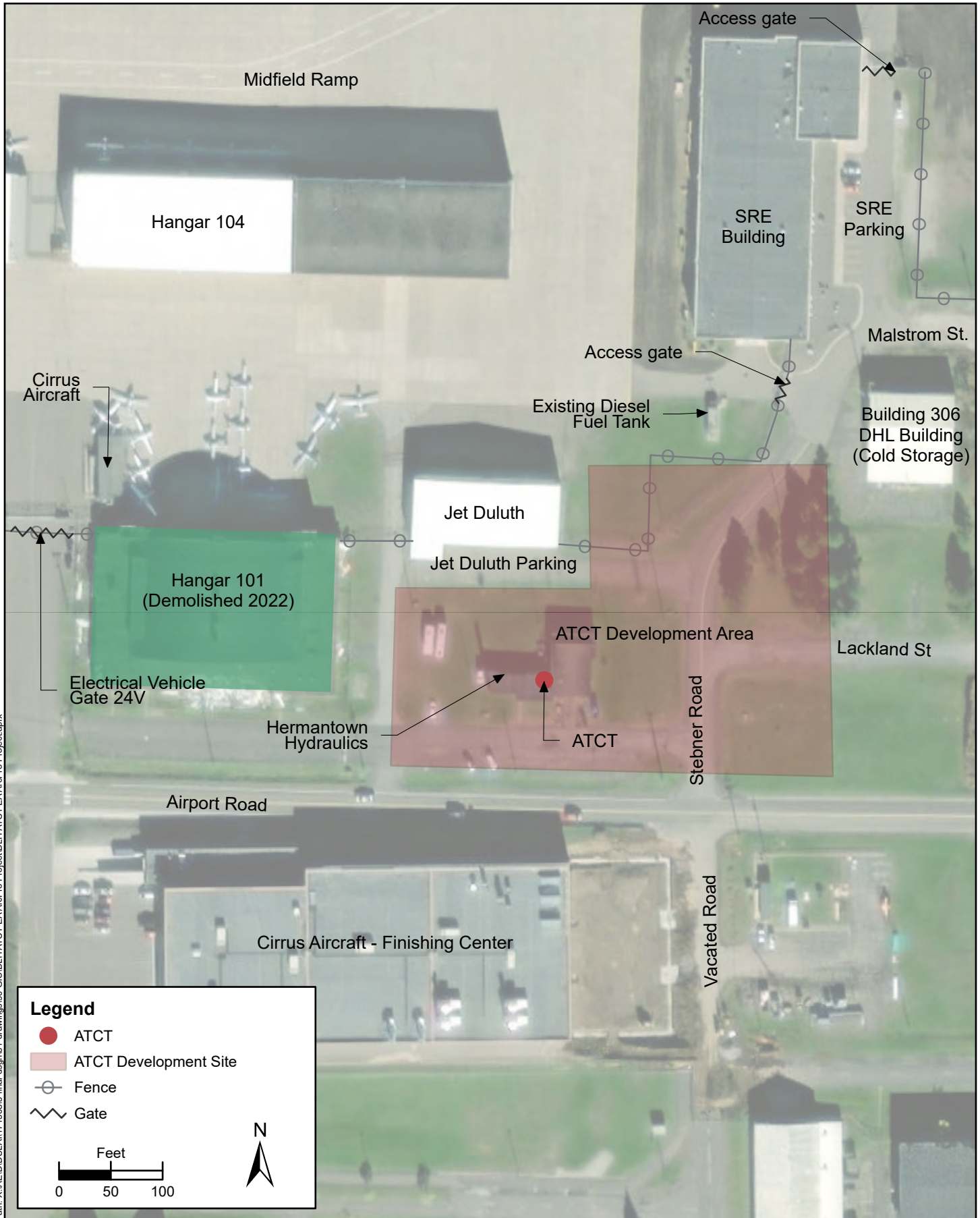
**Duluth International Airport  
Master Plan Supplemental  
Reconnaissance Architectural  
History Survey**  
Duluth, St. Louis County, Minnesota

-  Architectural History APE
-  Previously Surveyed
-  Not Recommended for Intensive Survey
-  Previously Inventoried, Integrity Confirmed
-  Not of Age



Project Location, APE, and Results





Path: X:\AE\IDULAI\171568\5-final-dsgn\51-drawings\90-GIS\DLH\ATCT EA AcPro Project\DLH ATCT EA AcPro Project.aprx







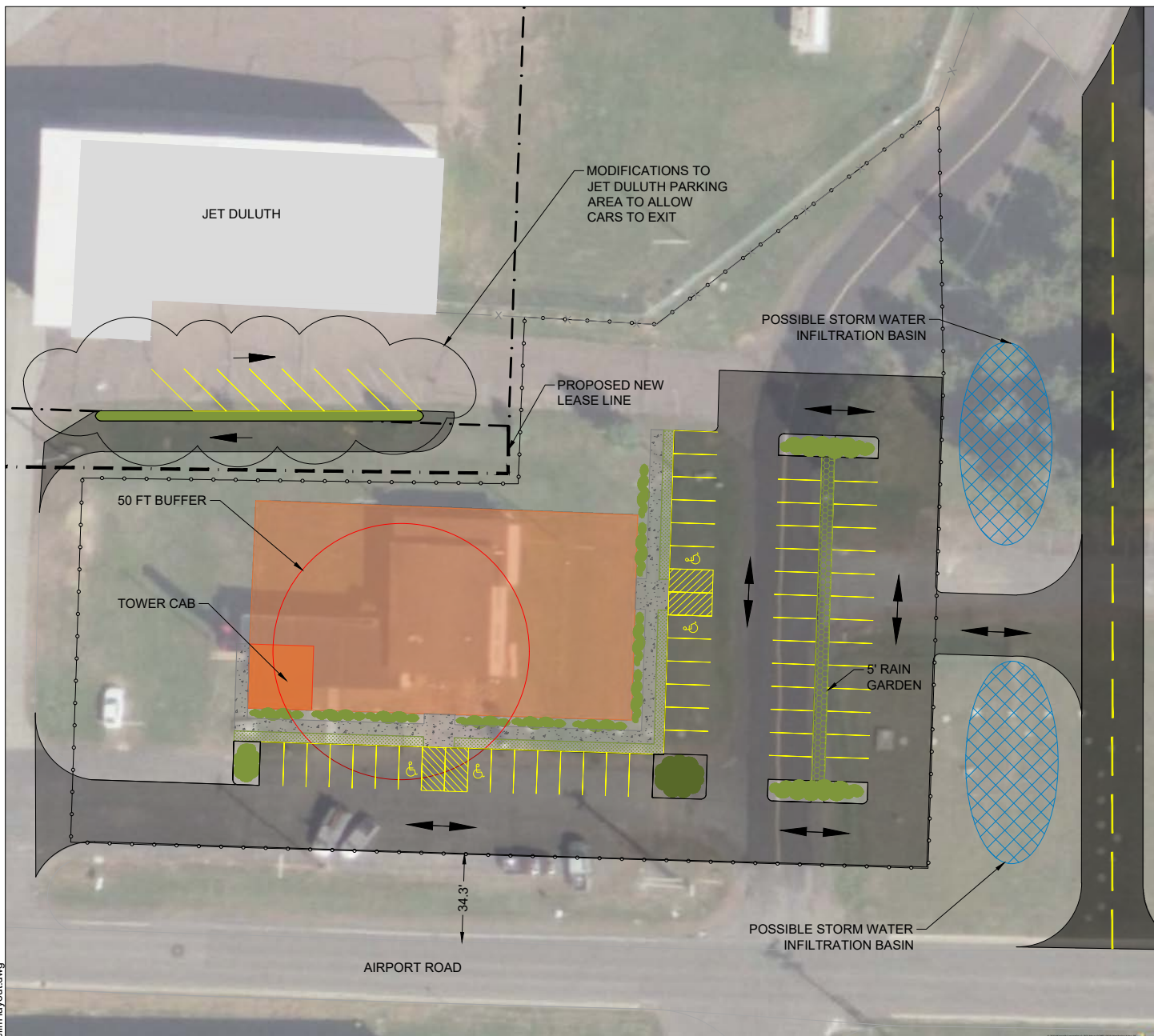


# Air Traffic Control Tower Preliminary Layout

## Figure 6

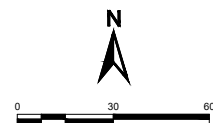
Duluth International Airport  
Duluth, Minnesota

Proposed Action Detailed Site Plan (Alternative A)  
04/2023; DULAI 171568



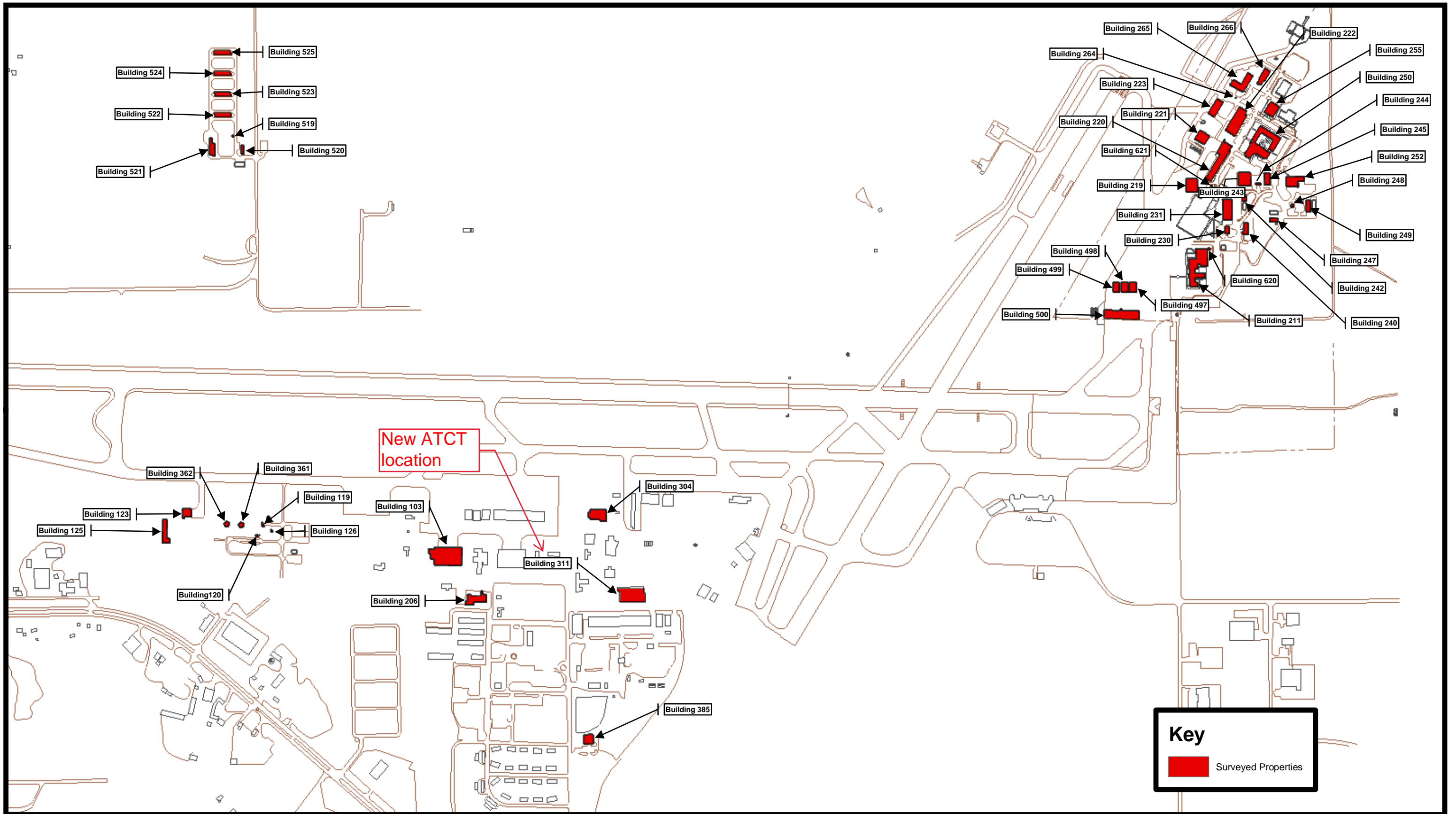
### NOTES:

- 60 STANDARD PARKING SPOTS
- 4 ACCESSIBLE PARKING SPOTS



X:\AE\IDULAI\171568\5-final-dsgn\51-drawings\65-Aviation\Preliminary Layout\Prelim layout.dwg

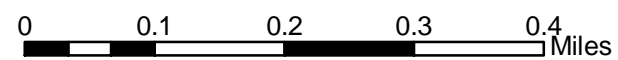
# 2006 Architectural Survey Area



Source: 148th Fighter Wing, Duluth Air National Guard

Duluth Air National Guard Base  
Cultural Resources Survey  
St. Louis County, Minnesota

Architectural History Results  
Figure 7









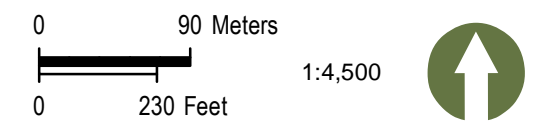
Map prepared by The 106 Group - 09/01/05



# 2021 Architectural Recon Survey Area

## Duluth International Airport Master Plan Project Reconnaissance Architectural History Survey Duluth, St. Louis County, Minnesota

-  Project Area / Architectural History APE
-  Previously Inventoried Property
-  No Longer Extant
-  Not of Age
-  Not Recommended for Intensive Survey
-  Recommended Eligible



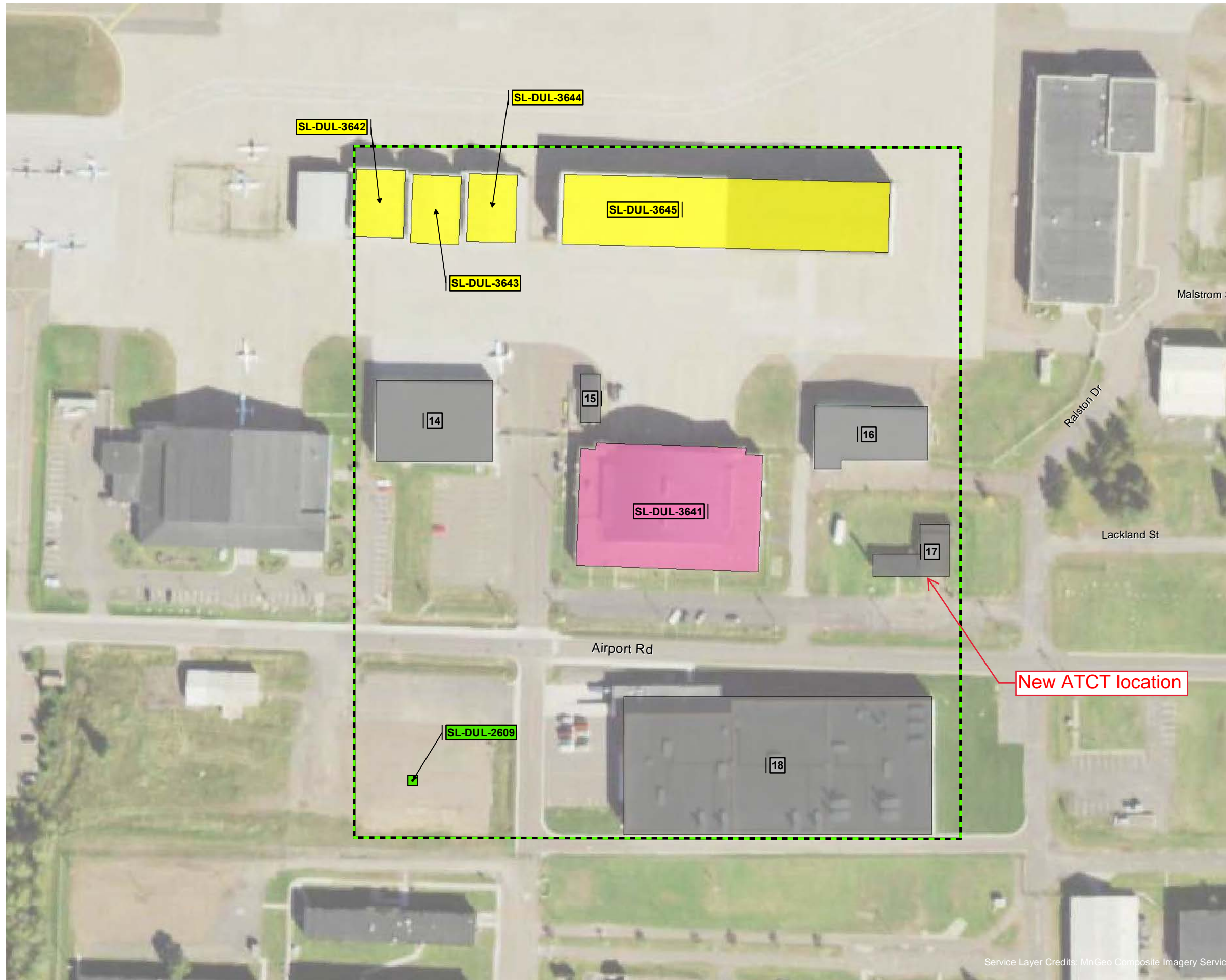
Project Location, APE, and Results



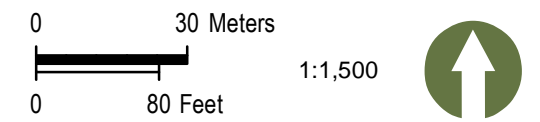
# 2021 Intensive Architectural Survey Area

## Duluth International Airport Master Plan Project Intensive Architectural History Survey of Hangar 101

Duluth, St. Louis County, Minnesota



- Project Area / Architectural History APE
- No Longer Extant
- Not of Age
- Not Recommended for Intensive Survey
- Recommended Eligible



Project Location, APE, and Results

## John Thayer

---

**From:** Jenny, Melissa M (FAA) <Melissa.M.Jenny@faa.gov>  
**Sent:** Friday, August 25, 2023 10:34 AM  
**To:** 'jaylen.strong@boisforte-nsn.gov'  
**Subject:** FAA notice of federal undertaking and request for comments under 36 CFR 800 – Duluth International Airport – Air Traffic Control Tower Replacement Project  
**Attachments:** DLH ATCT coord figs redux.pdf

Good Morning,

The Federal Aviation Administration (FAA) is requesting the Bois Forte Band of Chippewa THPO to review this proposal and identify any concerns that you may have about it's potential to impact historic properties, including those of traditional religious and cultural importance.

### 1. DESCRIPTION OF THE UNDERTAKING

The Duluth Airport Authority (DAA), as the sponsor of the Duluth International Airport (DLH or Airport), is proposing to replace the existing Air Traffic Control Tower (ATCT) at DLH with the construction of a new ATCT and Terminal Radar Approach Control (TRACON) facility at a site identified during a recent FAA Airway Facilities Tower Integration Laboratory (AFTIL) Study. The existing ATCT was constructed in the late 1950s on top of the old terminal building. The existing tower does not meet FAA standards for an ATCT. The proposed tower replacement project would include the following elements:

#### **Construction of a New Air Traffic Control Tower**

This proposed action includes the construction of a new ATCT that will meet the requirements outlined in the FAA's Siting Facility Requirements Workbook. This will include the construction of an appropriately sized tower structure at the location identified during the AFTIL study, a base building which will include offices, training rooms, and other support facilities for the operation of the TRACON and the ATCT, and a vehicle parking lot as required by the FAA. The ATCT will also provide space for the FAA Tech Ops team based in DLH.

#### **Reconstruction and Realignment of Stebner Road**

Per FAA requirements, a site of at least approximately 3 acres is needed for the development of the ATCT. To meet this requirement and to provide enough space for all the required facilities of the ATCT, Stebner Road must be realigned. The reconstruction and realignment of the roadway would require the demolition of Building 306 ("DHL building," a cold storage building owned and utilized by DAA).

#### **Demolition of Building 306 (DHL Building/Cold Storage)**

Building 306 is a pre-engineered metal cold storage building and is currently used as a cold storage building by the Airport. With the reconstruction and realignment of Stebner Road as discussed above, the building would need to be demolished to allow for the road realignment. DAA storage uses would be relocated to other DAA-owned buildings.

#### **Demolition of Hermantown Hydraulics Building**

The Hermantown Hydraulics building is located at the site of the proposed ATCT development. The building would need to be demolished for the construction of the ATCT.

#### **Removal of the existing Air Traffic Control Tower**

As part of the construction of the new ATCT facility, the existing tower facility would also need to be removed as the existing tower blocks clear site lines from the new ATCT to the movement area. The structure where the existing ATCT is located is a multistory building previously utilized as the Airport's terminal building. The structure currently houses ATCT facilities. This action would involve the demolition of the entire multi-story facility as the condition of the building has deteriorated to an extent where maintaining the facility is not

feasible. The existing ATCT site will be repurposed with near-term use expected to accommodate winter snow storage from snow removal operations.

## 2. AREA OF POTENTIAL EFFECT

The Area of Potential Effect (APE) is the area within which an undertaking may affect a historic property, either directly or indirectly. The direct effect (archaeology) APE for this project is identified on the attached Figure 2; this APE aligns with the project's construction limits. The indirect effect (architectural) APE for this project is identified in the attached Figure 3; this APE includes all structures adjacent to the existing ATCT proposed to be demolished and the new ATCT location.

## 3. EFFORTS TO IDENTIFY HISTORIC PROPERTIES

### Architectural History

In 2006 the 106 Group conducted an architectural history survey for property owned or leased by the Duluth Air National Guard Base (ANGB) at the Airport (Bradley et al. 2006.) Building 311 (SL-DUL-2634), located within the ATCT project's indirect effect APE, was evaluated in this report and was recommended as not eligible for listing on the NRHP.

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#### **4. BASIS FOR FINDING**

A review of the MN Office of the State Archeologist (OSA) Web Portal (<https://osa.gisdata.mn.gov/osa-viewer>) did not identify any known resources in the same section as the project area. All ground disturbing activities are proposed in areas that have been previously disturbed with airport construction; these areas have low potential to harbor intact or significant cultural resources. The structures proposed for demolition are not historic as documented in architectural history reports completed at the airport, and existing buildings adjacent to planned construction areas, within the project's indirect effect APE, are not historic. Therefore, the FAA has determined that a finding of *No Historic Properties Affected* is appropriate for this project.

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Thank you,

Melissa Jenny (she/her)  
Environmental Protection Specialist  
FAA Dakota-Minnesota Airports District Office  
(612) 253-4633  
Melissa.m.jenny@faa.gov

## John Thayer

---

**From:** Jenny, Melissa M (FAA) <Melissa.M.Jenny@faa.gov>  
**Sent:** Friday, August 25, 2023 10:37 AM  
**To:** 'EvanSchroeder@FDLREZ.COM'  
**Cc:** 'LanceNorthbird@FDLREZ.COM'  
**Subject:** FAA notice of federal undertaking and request for comments under 36 CFR 800 – Duluth International Airport – Air Traffic Control Tower Replacement Project  
**Attachments:** DLH ATCT coord figs redux.pdf

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Environmental Protection Specialist  
FAA Dakota-Minnesota Airports District Office  
(612) 253-4633  
Melissa.m.jenny@faa.gov

## John Thayer

---

**From:** Jenny, Melissa M (FAA) <Melissa.M.Jenny@faa.gov>  
**Sent:** Friday, August 25, 2023 10:11 AM  
**To:** 'thpo@grandportage.com'  
**Subject:** FAA notice of federal undertaking and request for comments under 36 CFR 800 – Duluth International Airport – Air Traffic Control Tower Replacement Project  
**Attachments:** DLH ATCT coord figs redux.pdf

Good Morning,

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This proposed action includes the construction of a new ATCT that will meet the requirements outlined in the FAA's Siting Facility Requirements Workbook. This will include the construction of an appropriately sized tower structure at the location identified during the AFTIL study, a base building which will include offices, training rooms, and other support facilities for the operation of the TRACON and the ATCT, and a vehicle parking lot as required by the FAA. The ATCT will also provide space for the FAA Tech Ops team based in DLH.

#### **Reconstruction and Realignment of Stebner Road**

Per FAA requirements, a site of at least approximately 3 acres is needed for the development of the ATCT. To meet this requirement and to provide enough space for all the required facilities of the ATCT, Stebner Road must be realigned. The reconstruction and realignment of the roadway would require the demolition of Building 306 ("DHL building," a cold storage building owned and utilized by DAA).

#### **Demolition of Building 306 (DHL Building/Cold Storage)**

Building 306 is a pre-engineered metal cold storage building and is currently used as a cold storage building by the Airport. With the reconstruction and realignment of Stebner Road as discussed above, the building would need to be demolished to allow for the road realignment. DAA storage uses would be relocated to other DAA-owned buildings.

#### **Demolition of Hermantown Hydraulics Building**

The Hermantown Hydraulics building is located at the site of the proposed ATCT development. The building would need to be demolished for the construction of the ATCT.

#### **Removal of the existing Air Traffic Control Tower**

As part of the construction of the new ATCT facility, the existing tower facility would also need to be removed as the existing tower blocks clear site lines from the new ATCT to the movement area. The structure where the existing ATCT is located is a multistory building previously utilized as the Airport's terminal building. The structure currently houses ATCT facilities. This action would involve the demolition of the entire multi-story facility as the condition of the building has deteriorated to an extent where maintaining the facility is not

feasible. The existing ATCT site will be repurposed with near-term use expected to accommodate winter snow storage from snow removal operations.

## 2. AREA OF POTENTIAL EFFECT

The Area of Potential Effect (APE) is the area within which an undertaking may affect a historic property, either directly or indirectly. The direct effect (archaeology) APE for this project is identified on the attached Figure 2; this APE aligns with the project's construction limits. The indirect effect (architectural) APE for this project is identified in the attached Figure 3; this APE includes all structures adjacent to the existing ATCT proposed to be demolished and the new ATCT location.

## 3. EFFORTS TO IDENTIFY HISTORIC PROPERTIES

### Architectural History

In 2006 the 106 Group conducted an architectural history survey for property owned or leased by the Duluth Air National Guard Base (ANGB) at the Airport (Bradley et al. 2006.) Building 311 (SL-DUL-2634), located within the ATCT project's indirect effect APE, was evaluated in this report and was recommended as not eligible for listing on the NRHP.

In 2021 the 106 Group conducted literature reviews at the Airport entitled the *Reconnaissance Architectural History Survey for the Duluth International Airport Master Plan Project* report (SHPO File No. 2022-0198) and the *Intensive Architectural History Survey of Hangar 101 for the Duluth International Airport Master Plan Project* report (SHPO File No. 2022-0198), which are on file at the SHPO (Miller et al. 2021a, 2021b). These reports identified Hangar 101, located directly west of the proposed new ATCT location, as eligible for listing on the NRHP. Hangar 101 was damaged by a large storm event and was demolished as an emergency action at the Airport. Mitigation is ongoing for Hangar 101 as outlined in a MOU executed for this project with the SHPO, FAA and DAA on October 18, 2022. No other properties evaluated in these reports were recommended as eligible for listing on the NRHP.

In July and August 2023 the 106 Group conducted a supplemental reconnaissance architectural history survey for additional portions of the Airport as part of the Duluth Airport Master Plan Project. Since 2021 the Master Plan has been refined to include the construction of the proposed ATCT. Properties that have not been included in studies completed within the last 10 years that are located in the ATCT APE include:

- One property 45 years of age or older that was included in the 2021 architectural history reconnaissance survey for the Airport Master Plan Project but had been erroneously labeled as not of age for survey (Hermantown Hydraulics building/SL-HER-040);
- One property 45 years of age or older that was not included in the APE for the Airport Master Plan Project (SL-DUL-4033);
- One property that was previously outside the Project APE and was previously inventoried, Building 311, whose integrity needed to be confirmed (SL-DUL-2634)
- And two properties that are less than 45 years of age (Buildings 6 and 7).

The supplemental report concluded: Building 311 (SL-DUL-2634), which had been inventoried in 2006, retains integrity, and therefore preparation of an updated form for the property is not required. The two properties (SL-HER-040 and SL-DUL-4022) that had not been previously surveyed are not recommended for further intensive survey due to a lack of historical significance. Minnesota Individual Property Inventory Forms have been prepared for these properties. No further architectural history work is recommended for the ATCT project as currently proposed.

**Direct effects to existing structures:** The undertaking includes the demolition of the existing ATCT structure, the Hermantown Hydraulics building, and Building 306. The Section 106 Group's 2021 Reconnaissance Architectural History Survey report did not recommend the existing ATCT structure (SL-DUL-3638) or Building 306 (SL-DUL-3640) for further intensive survey due to a lack of historical significance and/or a loss of integrity. The SHPO concurred that no further Phase II survey was warranted for these buildings in a letter dated

November 15, 2021. The Hermantown Hydraulics building (SL-HER-040) was more recently evaluated by the Section 106 Group in the supplemental report described above. This building is not recommended for further intensive survey due to a lack of historical significance.

**Indirect effects to existing structures:** All of the existing buildings within the ATCT project's indirect effect APE have been reviewed in the reports above. The buildings have not been recommended for further intensive survey due to a lack of historical significance or they are less than 45 years old. In addition, the indirect effects APE was limited to buildings directly adjacent to the project's construction sites because this project would not cause adverse effects to other existing structures at the airport. This is an airport improvement project occurring on airport property.

**Archaeology:** The areas within the direct effect APE for this project have been heavily disturbed due to airport construction activities and have low likelihood for intact below ground cultural resources. An archaeological resource survey was not completed for this project. An archaeological survey was completed at DLH in 2006 including property owned or leased by the ANGB. The area reviewed in the report is near the ATCT APE but does not cover the entire ATCT APE. The archaeological investigation in the report consisted of review of previously recorded sites and some field testing, which was concentrated around portions of the base northeast of the ATCT APE. No archaeological resources were found.

#### **4. BASIS FOR FINDING**

A review of the MN Office of the State Archeologist (OSA) Web Portal (<https://osa.gisdata.mn.gov/osa-viewer>) did not identify any known resources in the same section as the project area. All ground disturbing activities are proposed in areas that have been previously disturbed with airport construction; these areas have low potential to harbor intact or significant cultural resources. The structures proposed for demolition are not historic as documented in architectural history reports completed at the airport, and existing buildings adjacent to planned construction areas, within the project's indirect effect APE, are not historic. Therefore, the FAA has determined that a finding of *No Historic Properties Affected* is appropriate for this project.

#### **ATTACHMENTS**

Figures 1-6, Project location, APE and proposed layout figures

Figures 7-9, 2006 and 2021 architectural history survey areas

Please let me know if you have any questions or comments on this project.

Thank you,

Melissa Jenny (she/her)  
Environmental Protection Specialist  
FAA Dakota-Minnesota Airports District Office  
(612) 253-4633  
Melissa.m.jenny@faa.gov

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**Appendix H**  
**EPA EJSCREEN Standard Report**



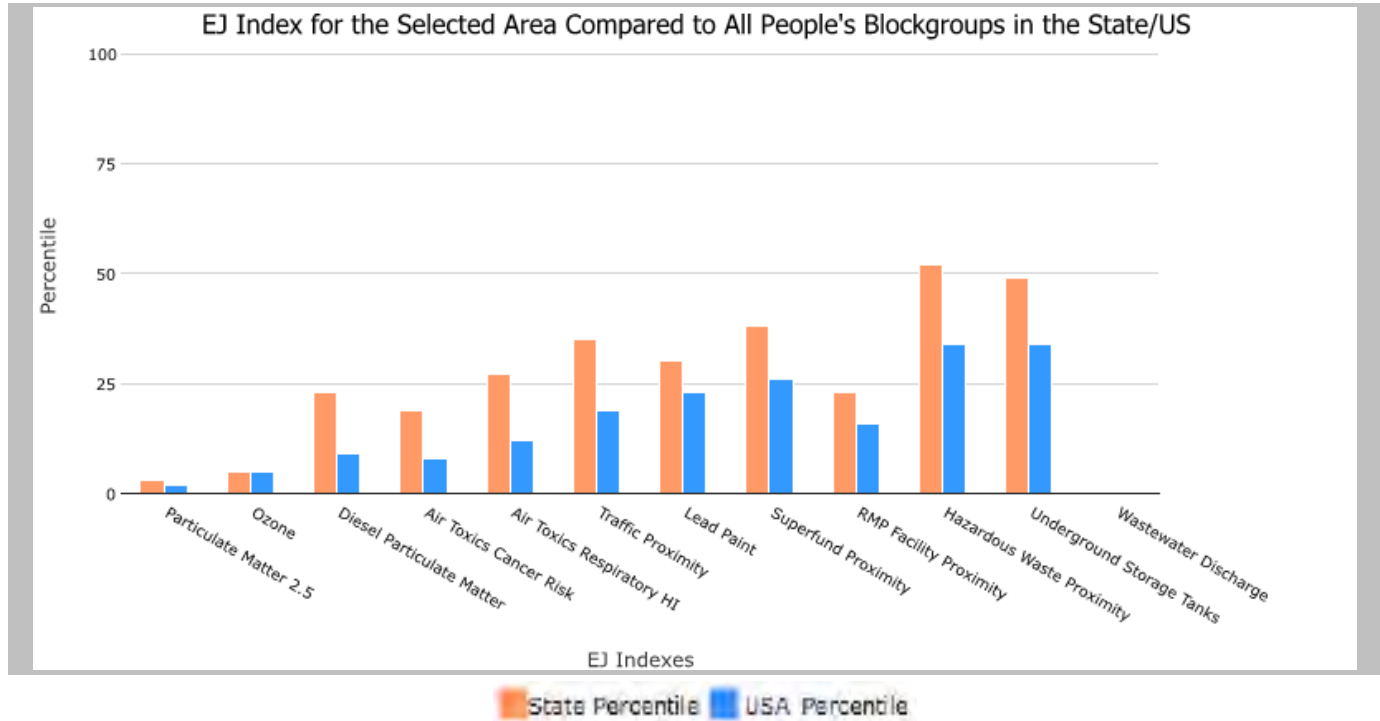
1 mile Ring Centered at 46.837689,-92.195932, MINNESOTA, EPA Region 5

Approximate Population: 1,551

Input Area (sq. miles): 3.14

Selected Variables	State Percentile	USA Percentile
<b>Environmental Justice Indexes</b>		
Particulate Matter 2.5 EJ index	3	2
Ozone EJ index	5	5
Diesel Particulate Matter EJ index*	23	9
Air Toxics Cancer Risk EJ index*	19	8
Air Toxics Respiratory HI EJ index*	27	12
Traffic Proximity EJ index	35	19
Lead Paint EJ index	30	23
Superfund Proximity EJ index	38	26
RMP Facility Proximity EJ index	23	16
Hazardous Waste Proximity EJ index	52	34
Underground Storage Tanks EJ index	49	34
Wastewater Discharge EJ index	N/A	N/A

EJ Indexes - The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.



\*Diesel particular matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

1 mile Ring Centered at 46.837689,-92.195932, MINNESOTA, EPA Region 5

Approximate Population: 1,551

Input Area (sq. miles): 3.14



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	3

## EJScreen Report (Version 2.11)



1 mile Ring Centered at 46.837689,-92.195932, MINNESOTA, EPA Region 5

Approximate Population: 1,551

Input Area (sq. miles): 3.14

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
<b>Pollution and Sources</b>					
Particulate Matter 2.5 ( $\mu\text{g}/\text{m}^3$ )	5.49	7.51	2	8.67	2
Ozone (ppb)	34.4	37.7	5	42.5	9
Diesel Particulate Matter* ( $\mu\text{g}/\text{m}^3$ )	0.0926	0.22	23	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	20	25	55	28	<50th
Air Toxics Respiratory HI*	0.24	0.29	50	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	98	510	43	760	33
Lead Paint (% Pre-1960 Housing)	0.15	0.3	35	0.27	42
Superfund Proximity (site count/km distance)	0.06	0.19	45	0.13	50
RMP Facility Proximity (facility count/km distance)	0.14	0.79	21	0.77	25
Hazardous Waste Proximity (facility count/km distance)	1.7	1.6	68	2.2	66
Underground Storage Tanks (count/km <sup>2</sup> )	1.5	1.8	66	3.9	53
Wastewater Discharge (toxicity-weighted concentration/m distance)	N/A	0.034	N/A	12	N/A
<b>Socioeconomic Indicators</b>					
Demographic Index	10%	22%	23	35%	10
Supplemental Demographic Index	6%	11%	20	15%	10
People of Color	13%	21%	51	40%	29
Low Income	7%	23%	16	30%	11
Unemployment Rate	0%	4%	22	5%	22
Limited English Speaking Households	0%	2%	0	5%	0
Less Than High School Education	3%	7%	39	12%	25
Under Age 5	6%	6%	58	6%	61
Over Age 64	17%	16%	55	16%	55
Low Life Expectancy	20%	17%	77	20%	52

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

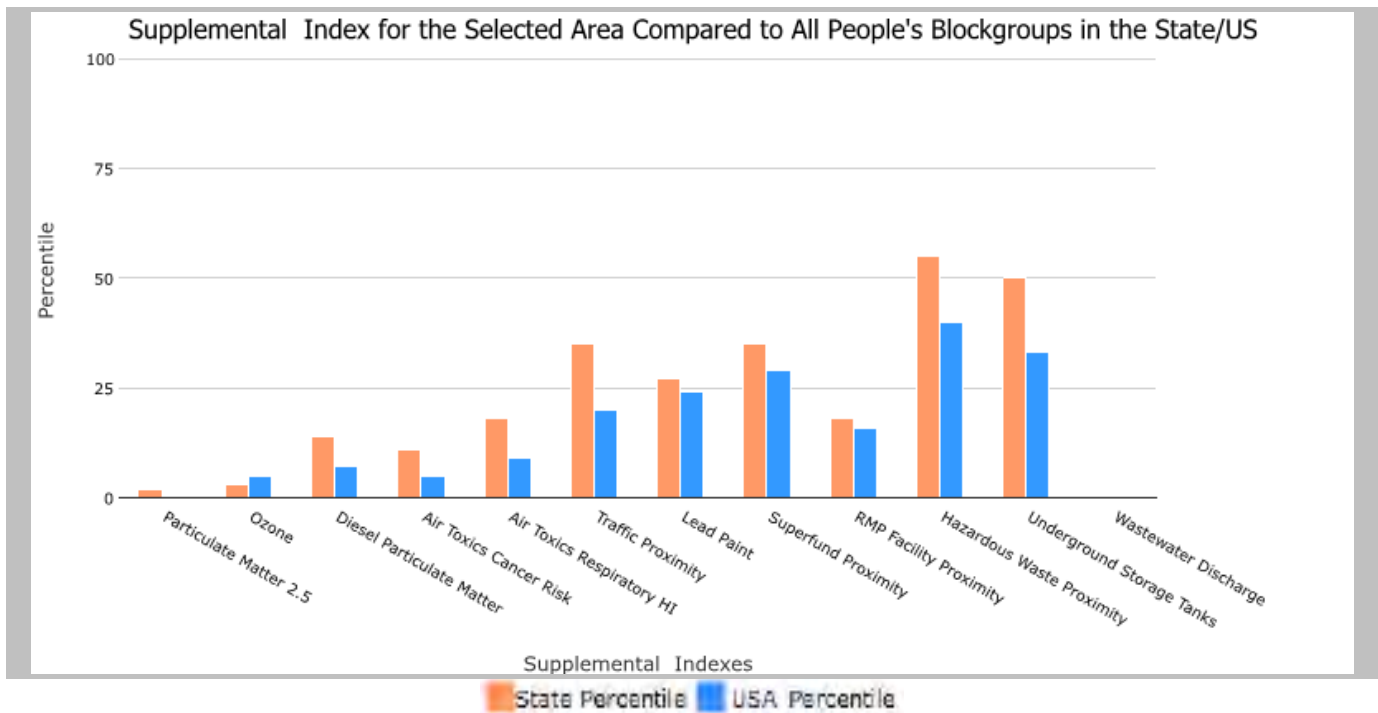
1 mile Ring Centered at 46.837689,-92.195932, MINNESOTA, EPA Region 5

Approximate Population: 1,551

Input Area (sq. miles): 3.14

Selected Variables	State Percentile	USA Percentile
<b>Supplemental Indexes</b>		
Particulate Matter 2.5 Supplemental Index	2	0
Ozone Supplemental Index	3	5
Diesel Particulate Matter Supplemental Index*	14	7
Air Toxics Cancer Risk Supplemental Index*	11	5
Air Toxics Respiratory HI Supplemental Index*	18	9
Traffic Proximity Supplemental Index	35	20
Lead Paint Supplemental Index	27	24
Superfund Proximity Supplemental Index	35	29
RMP Facility Proximity Supplemental Index	18	16
Hazardous Waste Proximity Supplemental Index	55	40
Underground Storage Tanks Supplemental Index	50	33
Wastewater Discharge Supplemental Index	N/A	N/A

Supplemental Indexes - The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on low-income, limited English speaking, less than high school education, unemployed, and low life expectancy populations with a single environmental indicator.



This report shows the values for environmental and demographic indicators, EJScreen indexes, and supplemental indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. For additional information, see: [www.epa.gov/environmentaljustice](http://www.epa.gov/environmentaljustice).

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**Appendix I**  
**Notice of Availability and Distribution List**

**NOTICE OF ENVIRONMENTAL ASSESSMENT**  
**Duluth International Airport**  
**Construction of an Airport-owned Air Traffic Control Tower and Enabling Projects**

The Duluth Airport Authority (DAA), in cooperation with the Federal Aviation Administration, announces the availability of an Environmental Assessment. The DAA is proposing to replace the existing Air Traffic Control Tower (ATCT) with the construction of a new ATCT and Terminal Radar Approach Control (TRACON) facility.

The EA provides information on the project and discusses the potential economic, social, environmental impacts, and mitigation measures, as appropriate, of the project. It has been prepared pursuant to the requirements of Section 102(2)(c) of the National Environmental Policy Act of 1969 (NEPA), and in accordance with FAA Order 1050.1F, Environmental Impacts: Policies and Procedures, FAA Order 5050.4B, NEPA Implementing Instructions for Airport Actions.

**PUBLIC INSPECTION:** Copies of the EA will be made available for public review beginning November 8<sup>th</sup>, 2023 during regular business hours at the following locations:

- Duluth Airport Authority administration offices, 4701 Grinden Drive, Duluth
- Duluth City Hall, 411 West 1<sup>st</sup> Street, Duluth
- Hermantown City Hall, 5105 Maple Grove Road, Hermantown
- Duluth Public Library, 520 West Superior Street, Duluth
- MNDOT District 1, 1123 Mesaba Avenue, Duluth

The EA will also be available at DAA website [www.duluthairport.com](http://www.duluthairport.com)

**COMMENT PERIOD:** Written comments will be accepted until December 8<sup>th</sup>, 2023. Please direct written comments to Natalie White, Senior Scientist, SEH, 418 West Superior Street, Suite 200, Duluth, MN 55802 or [nwhite@sehinc.com](mailto:nwhite@sehinc.com). Please note "Air Traffic Control Tower Project" in the subject line.

*Before including your address, phone number, email address or other personal identifying information in your comment, be advised that your entire comment, including your personal identifying information may be made publicly available at any time. While you can ask us in your comment to withhold from public review your personal identifying information, we cannot guarantee we will be able to do so.*

**ACCOMMODATIONS:** Auxiliary aids and services may be provided upon request. Requests for these services can be made by calling Natalie White at 218-279-3003. Every reasonable effort to accommodate special needs will be made.

### Contacts for EA Distribution

Agency	Contact	Title	Email	Mailing Address
U.S. Environmental Protection Agency, Region 5	Kenneth Westlake	Section Chief	westlake.kenneth@epa.gov	77 West Jackson Blvd Chicago IL 60604
St. Louis County Historical Society	JoAnne Coombe	Executive Director	joanne@thehistorypeople.org	506 West Michigan Street Duluth MN 55802
City of Duluth		Duluth City Hall		411 West First Street Duluth MN 55802
Duluth Airport Authority		Administration Offices		4701 Grinden Drive Duluth, MN 55811
City of Hermantown		Hermantown City Hall		5105 Maple Grove Road, Hermantown MN 55811
Duluth Public Library				520 West Superior Street Duluth MN 55802
MN State Historic Preservation Office SHPO Number 2022-0198	Kelly Gragg-Johnson	Environmental Review Program Specialist	kelly.graggjohnson@state.mn.us	50 Sherburne Avenue Administration Building 203 St. Paul MN 55155
Advisory Council on Historic Preservation ACHP Project Number: 018263	Rachael Mangum	Program Analyst	rmangum@achp.gov	401 F Street NW, Suite 308 Washington DC 20001
MnDOT Office of Aeronautics	Kevin Carlson	Planning Program Coordinator	kevin.r.carlson@state.mn.us	395 John Ireland Blvd, St Paul, MN 55155
MnDOT District 1				1123 Mesaba Avenue Duluth, MN 55811
US Fish and Wildlife Service Project Code: 2022-0045452	To whom it may concern		TwinCities@fws.gov	MN-WI Field Office E.S. 4101 American Blvd E Bloomington MN 55425
Minnesota Department of Health		Environmental Health Division	health.review@state.mn.us	625 North Robert Street St. Paul, MN 55155

### Contacts for EA Distribution

Agency	Contact	Title	Email	Mailing Address
Minnesota Department of Natural Resources	Jessica Parson	Regional Environmental Assessment Ecologist	jessica.parson@state.mn.us	1201 East Highway 2 Grand Rapids, MN 55744
Minnesota Pollution Control Agency	Karen Kromar	Environmental Review Unit	karen.kromar@state.mn.us	520 Lafayette Road N St. Paul, MN 55155
U.S. Department of the Interior			via email by FAA	



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**Appendix J**  
**Scoping Letter and Distribution List**



August 21, 2023

RE: National Environmental Policy Act  
(NEPA) Early Agency Coordination for  
Air Traffic Control Tower  
Duluth International Airport, Duluth,  
Minnesota  
SEH No. DULAI 171568 14.00

Dear \_\_\_\_\_ :

The purpose of this letter is to seek input regarding potential environmental effects associated with the proposed construction of an airport-owned Air Traffic Control Tower (ATCT) at the Duluth International Airport (DLH or Airport) located in the City of Duluth, St. Louis County, Minnesota.

## BACKGROUND

The Duluth Airport Authority (DAA), as the sponsor of the Airport, is proposing to replace the existing ATCT with the construction of a new ATCT and Terminal Radar Approach Control (TRACON) facility.

The existing ATCT does not meet FAA standards for an ATCT. These standards include being deficient in line with site requirements, providing adequate controller eye height (the ATCT controller cab is too low), and minimum space requirements. As a result, and in compliance with NEPA, the project will require an Environmental Assessment (EA) to document and disclose the potential environmental effects. The study area is detailed in **Figure 1** (see attached).

The Airport's Proposed Action (i.e., project) is the construction of a new ATCT and enabling projects pursuant to FAA Order 1050.1F, Paragraph 8-7. Project elements are:

### Construction of the New ATCT

This proposed action includes the construction of a new ATCT that will meet the requirements outlined in the FAA's Siting Facility Requirements Workbook. This will include the construction of a tower structure, a base building which will include offices, training rooms, and other support facilities for the operation of the TRACON and the ATCT, and a vehicle parking lot as required by the FAA. The ATCT will also provide space for the FAA Tech Ops team based in DLH. **Figure 2** shows the proposed ATCT development site and the existing conditions around the proposed site. The Proposed Action would not result in a change in the number of aircraft operations, fleet mix, runway use, nor flight patterns that could impact the environment or human health.

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 418 West Superior Street, Suite 200, Duluth, MN 55802

218.279.3000 | 888.722.0547 | 888.908.8166 fax | [sehinc.com](http://sehinc.com)

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### Reconstruction and Realignment of Stebner Road

This road section is located on the south side of the airport providing access to the DAA-owned Snow Removal Equipment (SRE) building and the Civil Air Patrol (CAP) building located east of the ATCT site. No recorded right-of-way exists for this road. The Airport is responsible for the pavement, and neither the City of Duluth nor St. Louis County maintain this roadway. Per FAA requirements, a site of at least approximately three (3) acres is needed for the development of the ATCT. To meet this requirement and to provide enough space for all the required facilities of the ATCT, this road must be realigned, as shown in **Figure 3**. The reconstruction and realignment of the roadway would require the demolition of Building 306 ("DHL building," a cold storage building owned and utilized by DAA). Access to the CAP building would continue to be provided from the relocated Stebner Road. Access to the CAP building would be provided throughout construction. If needed, access can be provided temporarily from Malstrom St. to the north of a nearby business, Hydrosolutions.

### Demolition of Building 306 (DHL Building/Cold Storage)

Building 306 (the DHL Building, see **Figure 3**) is a pre-engineered metal cold storage building and is currently used as a cold storage building by the Airport. With the reconstruction and realignment of Stebner Road (as discussed above) the building would need to be demolished to allow for the road realignment. DAA storage uses would be relocated to other DAA-owned buildings.

### Demolition of Hermantown Hydraulics Building

The Hermantown Hydraulics building (See **Figure 3**) is located at the site of the proposed ATCT development. The building would need to be demolished for the construction of the ATCT. The DAA owns the building and is currently leased on a month-to-month basis to Hermantown Hydraulics (tenant). The tenant is aware that the site is being redeveloped and that their lease will not be renewed. Phase I and Phase II ESAs were completed in 2023 to identify potential contamination and hazardous materials in the proposed project area. Petroleum-impacted soil was identified below the building floor slab for Hermantown Hydraulics in the shop area. Outside of the building's footprint, several areas of low-level petroleum impacts in soil were identified, but the concentrations were below regulatory criteria. As part of the Proposed Action, minimal excavation is anticipated and would be limited to the removal of concrete footings and the abandonment of subsurface utilities. Contamination is anticipated to be encountered during excavation activities at the site of Hermantown Hydraulics. It would be appropriately managed in accordance with the MPCA's risk-based approach to cleanup as summarized in its guidance document titled *Brownfield Program Response Action Plans c rem4 43*.

### Vacating Platted Drainage and Utility Easements

Several platted utility and drainage easements are in the Proposed Action area. These easements are platted public interest, in which the City of Duluth is the administrator of the easement. The Airport would work with the City of Duluth to vacate the easements in this area as needed based on the final site plan and utility layout needs. The project would include the recording of any future utility easements as necessary to serve the development site.

### Removal of the existing ATCT

As part of the construction of the new ATCT facility, the existing tower facility would also need to be removed as the existing tower blocks clear sight lines from the new ATCT to the movement area (see **Figure 3**). The structure where the existing ATCT is located is a multi-story building previously utilized as the Airport's terminal building. The structure currently houses ATCT facilities. Two business entities lease space in the building. The lease for one entity (Lake Superior Helicopters) will expire in December 2023 (prior to building demolition). The other tenant's (RS&H) lease has expired, and they are on a month-to-month lease. One of the two entities is currently pursuing other building locations/options at DLH, as the

current space does not meet their needs. This connected action is the demolition of the entire multi-story facility as the condition of the building has deteriorated to an extent where maintaining the facility is not feasible. The existing ATCT site will be repurposed with near-term use expected to accommodate winter snow storage from snow removal operations.

## CONCLUSION

The Proposed Action is subject to environmental review under NEPA. The FAA is the lead Federal agency and is preparing the EA in accordance with NEPA, Council on Environmental Quality (CEQ) Regulations for Implementing the Procedural Provisions of NEPA (40 Code of Federal Regulations [CFR] Parts 1500-1508), and FAA Order 1050.1F, Environmental Impacts: Policies and Procedures. The purpose of a NEPA analysis is to ensure full disclosure and consideration of environmental information in federal agency decision-making.

In accordance with NEPA and FAA Order 1050.1F, Environmental Impacts: Policies and Procedures, the EA will analyze the potential environmental effects of the project. On behalf of the Duluth Airport Authority, we are sending you this early notification letter to:

- Advise your agency of the preparation of the EA;
- Request any relevant information that your agency may have regarding the project site or potentially affected environment; and
- Solicit early comments regarding potential environmental, social, and economic issues for consideration during the preparation of the EA.

You may send any information and comments to Natalie White at [nwhite@sehinc.com](mailto:nwhite@sehinc.com). We would appreciate your response within 30 days. We would like to thank you for your interest in this project and we look forward to working with you as we prepare the EA. If you have any questions or need additional information regarding the Proposed Action or EA, contact me at [nwhite@sehinc.com](mailto:nwhite@sehinc.com).

Sincerely,

SHORT ELLIOTT HENDRICKSON INC.

Natalie White  
Sr. Biologist

nw/mh

Attachment: Figure 1: Study Area Map  
Figure 2: Proposed Development Site  
Figure 3: Existing Airport Facilities

c: Melissa Jenny, FAA Environmental Protection Specialist  
Mark Papko, Duluth Airport Authority

**Contacts for Scoping Letter Distribution**

<b>Agency</b>	<b>Contact</b>	<b>Title</b>	<b>Email</b>	<b>Mailing Address</b>
U.S. Environmental Protection Agency, Region 5	Virginia Laszewski	Section Chief	<a href="mailto:R5NEPA@epa.gov">R5NEPA@epa.gov</a> <a href="mailto:Pelloso.liz@epa.gov">Pelloso.liz@epa.gov</a>	77 West Jackson Blvd Chicago IL 60604
MN State Historic Preservation Office SHPO Number xxxx-xxxx	Kelly Gragg-Johnson	Environmental Review Program Specialist	<a href="mailto:kelly.graggjohnson@state.mn.us">kelly.graggjohnson@state.mn.us</a>	50 Sherburne Avenue Administration Building 203 St. Paul MN 55155
MnDOT Office of Aeronautics	Kevin Carlson	Planning Program Coordinator	<a href="mailto:kevin.r.carlson@state.mn.us">kevin.r.carlson@state.mn.us</a>	395 John Ireland Blvd, St Paul, MN 55155
US Fish and Wildlife Service Project Code: xxxx-xxxxxx	Lainet Garcia-Rivera		<a href="mailto:lainet_garcia-rivera@fws.gov">lainet_garcia-rivera@fws.gov</a>	MN-WI Field Office E.S. 4101 American Blvd E Bloomington MN 55425
Minnesota Department of Health		Environmental Health Division	<a href="mailto:health.review@state.mn.us">health.review@state.mn.us</a>	625 North Robert Street St. Paul, MN 55155
Minnesota Department of Natural Resources	Jessica Parson	Regional Environmental Assessment Ecologist	<a href="mailto:jessica.parson@state.mn.us">jessica.parson@state.mn.us</a>	1201 East Highway 2 Grand Rapids, MN 55744
Minnesota Pollution Control Agency	Karen Kromar	Environmental Review Unit	<a href="mailto:karen.kromar@state.mn.us">karen.kromar@state.mn.us</a>	520 Lafayette Road N St. Paul, MN 55155
U.S. Department of the Interior			via email by FAA	