Phase I Environmental Site Assessment

Turf Crosswind Runway 2/20 Construction

Stanley Municipal Airport 6115 82nd Ave NW Stanley, ND 58784

Prepared for

Stanley Municipal Airport Authority

Stanley, ND 58784

Prepared by



January 2024

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Summary

Mead & Hunt, Inc. (Mead & Hunt) has completed a Phase I Environmental Site Assessment (ESA), according to American Society for Testing and Materials (ASTM) E 1527-21, for the proposed construction of a crosswind turf runway at the Stanley Municipal Airport. This ESA was completed as part of a Federal Environmental Assessment (EA) in compliance with the National Environmental Policy Act (NEPA). Mead & Hunt services are authorized by the Stanely Municipal Airport Authority, the project sponsor, under Task Order #2023-03 to the Master Services Agreement. This summary is intended as an overview of the Phase I ESA for the convenience of the reader. The complete report must be reviewed in its entirety prior to making decisions regarding the Airport property.

A. Proposed Project Activities

Stanley Municipal Airport ("Airport"), Federal Aviation Administration (FAA) identifier 08D, is located approximately one mile southwest of downtown Stanley, ND, fifty-five miles west of Minot, ND, and seventy miles east of Willston, ND. The Airport is owned by the Stanley Municipal Airport Authority (SMAA). The Airport has one runway, Runway 10/28 which is 3,900 feet long by 60 feet wide and constructed of asphalt. The Airport is currently updating its Airport Layout Plan (ALP) to include a new turf crosswind runway which it intends to construct in 2024.

The proposed project will construct a crosswinds turf runway running southwest to northeast in a 02/20 orientation that crosses RW 10/28 at the RW 10 end. The runway would be 1,185' x 120', with a majority of the runway lying north of RW 10/28. There are no wetlands or any obstructions within the proposed runway safety area (RSA), runway object free area (ROFA), runway obstacle free zone (OFZ), approach threshold siting surface (TSS), Federal Aviation Regulation (FAR) Part 77 primary surface, or FAR Part 77 approach surface. The proposed alignment crosses over three underground utilities located on the airfield. The runway itself crosses over a Montana-Dakota Utilities (MDU) natural gas pipeline and US Air Force Communication Cable (AFCC) while the RPZ for the runway lies above the Williston Basin Interstate (WBI) petroleum pipeline.

A location map illustrating the proposed crosswind turf project area is included in **Appendix A**. Existing Airport facilities are depicted in **Appendix B**.

B. Findings & Conclusions

Mead & Hunt has performed a Phase I ESA of the Stanley Municipal Airport property located in Stanley, North Dakota, in conformance with our understanding of the scope and limitations of ASTM Practice E 1527-21. Any exceptions to, or deletions from, this practice are described in Section 1.D of this report.

This assessment has revealed no recognized environmental conditions, controlled recognized environmental conditions, or significant data gaps in connection with the subject property.

1. Introduction

Stanely Municipal Airport is currently updating its Airport Layout Plan (ALP). In conjunction with this update, the Airport proposes to construct a new turf crosswind runway in 2024. Federal financial participation in projects through the Airport and Airway Improvement Act of 1982 (AIP) requires environmental review under the National Environmental Policy Act (NEPA). An Environmental Assessment (EA) is a document prepared under NEPA that evaluates the effects of a proposed action on the surrounding natural, social, and economic environments. Mead & Hunt conducted this Phase I ESA using ASTM E 1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process as part of the EA.

A. Purpose

The purpose of the Phase I ESA is to identify, pursuant to ASTM E 1527-21, *recognized environmental conditions* (RECs) in connection with the property.

ASTM defines the term *recognized environmental condition* as the presence or likely presence of hazardous substances or petroleum products on the property under conditions that are indicative of an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into the structures on the property or into the ground, groundwater, or surface water of the site. The term does not include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of enforcement action if brought to the attention of appropriate governmental agencies.

B. Detailed Scope of Services

This ESA was completed in accordance with ASTM International Standard E1527-21, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, and U.S. Environmental Protection Agency (USEPA) All Appropriate Inquires (AAI) regulations under 40 CFR Part 312.

This report summarizes the results of Mead & Hunt's investigation of the proposed project area, visual non-invasive reconnaissance of the project area and adjoining properties, federal and state database reviews, and interviews, as applicable. Limitations, deviations, and significant gaps (if identified) are evident from reviewing the applicable scope of services and the report text. No other environmental issues will be assessed beyond the scope of ASTM E1527-21 in connection with this ESA.

C. Proposed Project Actions

To best provide the facilities necessary to give adequate wind coverage for all aircraft that use the Airport on a regular basis, to satisfy near-term user needs, and to meet FAA airport design standards, the following project actions are proposed:

Construct crosswind turf Runway 2/20

Appendix C illustrates areas of proposed ground-disturbing activities.



D. Significant Assumptions

No significant assumptions were made.

E. Data Gaps

No major data gaps were identified.

F. Limitations and Exceptions

This Phase I ESA was conducted using ASTM E 1527-21. The findings of this report are applicable and representative of conditions encountered at the property on the date of this assessment, and may not represent conditions at a later date.

The review of public records was limited to that information that was available to Mead & Hunt at the time this report was prepared. Interviews with local and state government authorities were limited to those people that Mead & Hunt was able to contact during the preparation of this report. Information was derived from *reasonably ascertainable* and *practically reviewable* sources in compliance with Mead & Hunt's understanding of the standards set forth by ASTM E 1527-21.

G. Special Terms and Conditions

This Phase I ESA was conducted in accordance with Task Order # 2023-03 with the Stanley Municipal Airport Authority, dated September 11, 2023.

H. User Reliance

The resulting report is provided for the sole use of the Airport and its assignees. Use of this report by any third parties will be at such party's sole risk except when granted under written permission by Mead & Hunt. Any such authorized use or reliance by third parties will be subject to the same work authorization under which the work was conducted for the Airport.

Additional party's use and reliance on the report will be subject to the same rights, obligations, and limitations imposed on the Stanley Municipal Airport Authority by our Work Authorization. However, the total liability of Mead & Hunt to all parties of the Phase I ESA shall be limited to the remedies and amounts as provided in the Work Authorization as a single contract. The additional party's use and reliance on the report shall signify the additional party's agreement to be bound by the proposal and contract that make up the Work Authorization between Mead & Hunt and the Stanley Municipal Airport Authority.

According to standards set forth by ASTM 1527-21, components of the Phase I ESA will expire 180 days from the date of completion of that component and may therefore require updating if the date of property acquisition exceeds this time period. The dates of completion for pertinent components are as follows:

Component

Date of Completion

Site Reconnaissance

November 7, 2023

Environmental Database Search

November & December 2023

2. Physical Setting

This section summarizes the physical environment in which the Airport operates that may be useful in determining potential RECs or the potential hazard posed by identified RECs.

A. Location

Stanley Municipal Airport is located in the extra-territorial area of the City of Stanley in Mountrail County in northwest North Dakota. The City of Stanley is the county seat of Mountrail County. The Airport is publicly owned and run by the Stanley Airport Authority. The center of the Airport is approximately a half mile south of US Highway 2, one mile southwest of the center of the City. Stanley is located at the junction of US Highway 2 and ND Highway 9, approximately 50 miles west of Minot, ND, 60 miles northeast of Williston, ND, 130 miles northwest of Bismarck, ND, and 250 miles west of Grand Forks, ND. It is also approximately 48 miles south of the United States-Canada border.

B. Current Ownership and Use of the Property

The property is currently owned and operated by the Stanley Airport Authority. The Airport has over 25 based aircraft and has an average of 115 aircraft operations a week.¹

C. Site and Vicinity Description

The dominant land use surrounding the Airport is agricultural. Operational agricultural fields surround the airport property to the east and west, and parts of the south. To the north, commercial businesses constructed during the 2010's are established along Westview Lane. Two businesses exist to the south of the airport along with one residence at the intersection of 82nd Ave NW and 61st St NW.

The airport access road is located on the eastern end of the property with access onto 82nd Ave NW. The Airport property itself is oriented in a west-northwest to east-southeast direction. All airport structures, fueling and parking is located north of Runway 10/28 at the eastern side. The area of proposed action is agricultural field both to the north and the south of Runway 10/28.

D. Descriptions of Roads, Structures, and Other Improvements on the Site

The Airport has a single utility runway that is 3,900 feet long and 60 feet wide and designed for Aircraft Approach Category (AAC) and Airplane Design Group (ADG) A/B-I aircraft. The Airport has two taxiways that connect the runway with the taxi lanes that service the apron. Taxi lanes are pathways that aircraft take to travel from the parking area, hangars, apron, or other stationary service area, to the taxiway. The Airport has three taxilanes in the terminal area that connect the fuel area, parking aprons, and hangars to the three taxiways.

The Airport has two parking aprons – one east and one west of Taxiway B and each with their own taxilane. The east apron is approximately 64,000 square feet in area and has direct access to eight adjacent hangars. There is also space for tie-down parking spaces at the easternmost end. The west

¹ FAA INFORMATION EFFECTIVE 02 NOVEMBER 2023, Stanley Municipal Airport, Stanley, North Dakota. <u>AirNav: 08D - Stanley Municipal Airport</u>

apron is approximately 54,000 square feet and has space for 10 tie-down parking spots. This apron has been expanded in recent years and has a connection to Taxiway C at the western end. The terminal building at 08D is located off Taxiway B. It is a combination terminal/hangar and has direct access to the east apron with space for two aircraft inside. The terminal building is approximately 4,000 square feet and is constructed of steel framing. The terminal can be accessed from the main airport access road which connects to 82nd Ave. NW. These are both gravel roads.

Hangar buildings allow for the storage of aircraft when not in use. The Airport currently has 11 hangar buildings located in two groups – a northern cluster and southern cluster. The northern cluster is comprised of three steel-frame hangars of various sizes. The largest hangar is a T-hangar with capacity for eight aircraft while the other two are box hangars with capacity for two aircraft each. These hangars access the airfield via a taxilane that connects to Taxiway B. The southern cluster is comprised of a mixture of eight steel-frame and wood-frame box hangars, which includes the terminal/hangar combo. The larger of the hangars have a four aircraft capacity and the smallest has a one aircraft capacity. Hangars in this cluster are located directly off the east apron and have a dedicated taxilane to Taxiway A and B.

The fueling area for aircraft at 08D is on the west apron near the Taxiway B junction, across Taxiway B from the main terminal. Aircraft are able to taxi in, circle out, and go to the parking area or back to the airfield using Taxiway B. The airport has a 12,000 gallon Jet A fuel tank, two 12,000 gallon 100LL aviation fuel tanks, and a MOGAS fuel tank.

E. Topography

Portions of the Airport property appear to be mowed grasslands. The airport is generally flat with little elevation change; the northwestern side is somewhat higher, gently sloping to the east and south to about 2,230 feet. See **Appendix D** for a detailed topographic map.

F. Hydrogeology and Geology

Wetlands are evident to the north between the Airport property and the existing commercial development. Surface drainage flows generally from northwest to southeast as it moves across the agricultural fields surrounding the Airport, toward the Stanley Reservoir. Drainage of the airport property runs off into the agricultural fields that are adjacent. Wetlands exist to the north of Runway 10/28.

The geology of the property is half Qccu, glacial sediment, to the northwest and half Qcrh, river sediment, to the southeast. Qccu is collapsed glacial sediment consisting or clay or mud and silt. It is described as unbedded, unsorted mixture of clay, silt, sand, and pebbles, and a few cobbles and boulders; as thick as 30 meters (100 feet). Qcrh is collapsed river sediment consisting of sand and gravel. It is descripted as moderately well sorted cross-bedded sand and plane-bedded gravel, including sediment of melt-water and other rivers; as thick as 30 meters (100 feet). Faulted and contorted supraglacial sediment with hummocky topography.²

² Physical Setting Report. Environmental Risk Information Services (ERIS) Database Report. Order 23101200256p.

G. Soils Data

The Airport is covered by a number of different soils (see Table 1). However, the proposed project area mainly consists of two soils: excessively drained Wabek-Appam complex, 6 to 9 percent slopes. and well drained Zahl-Williams-Bowbells loams, 3 to 9 percent slopes. Soils present in the project area are summarized in Table 1 and soils mapping is presented in **Appendix E.** Only one soil type has a hydric status.

Table 1. Summary of Soils Present

Map unit symbol	Map unit name	Soil Unit Component Percentage	Landform	Hydric Status
C132B	Williams-Zahl loams, 3 to 6 percent slopes	Williams/Zahl/other components 54/20/26	ground moraines on till plains	No
C154C	Zahl-Williams-Bowbells loams, 3 to 9 percent slopes	Zahl/Williams/Other 40/24/36	Rises on till plains	No
C210A	Williams-Bowbells loams, 0 to 3 percent slopes	Williams/bowbells/other 60/21/19	Rises on till plains	No
C272A	Hamerly-Tonka complex, 0 to 3 percent slopes	Hamerly/Tonka/Other 45/30/25	Flats on till plains	No
C360B	Livona fine sandy loam, 0 to 6 percent slopes	Livona/Others 60/40	ground moraines on till plains	No
C370B	Krem-Lihen loamy fine sands, 0 to 6 percent slopes	Krem/Lihen/Other 70/18/12	ground moraines on till plains	No
C3A	Parnell silty clay loam, 0 to 1 percent slopes	Parnell/Other 86/14	Depressions on till plains	Yes
C415A	Tansem loam, 0 to 2 percent slopes	Tansem/Others 75/25	Flats on glacial lakes on till plains	No
C424A	Minot silty clay, 0 to 2 percent slopes	Minot/Others 65/35	Collapsed ice- walled lakebeds on till plains	No
C825A	Divide loam, 0 to 2 percent slopes	Divide loam/Others 65/35	Flats on outwash plains	No
C870E	Wabek-Lehr-Appam complex, 9 to 25 percent slopes	Wabek/Lehr/Appam 50/19/17	Ridges on outwash plains	No
C874C	Wabek-Appam complex, 6 to 9 percent slopes	Wabek/Appam/Others 59/25/21	Rises on outwash plains	No

3. Site Reconnaissance

Environmental Professionals with Mead & Hunt conducted site reconnaissance in November 2023 to observe the current uses of the site, adjoining properties, and properties in the surrounding area, as well as the hydraulic and topographic conditions of the site and the surrounding area. Photographs were taken of various portions of the subject site to document existing conditions (see **Appendix F**).

A. Methodology and Limiting Conditions

The property was observed by walking the perimeter and by systematically traversing the project area to provide an overlapping field of view where accessible.

A vehicular tour of the area was made to confirm the nearby land use. The tour involved viewing nearby properties from publicly accessible roadways. Observation was limited to areas visible in the line of sight from the subject property or public roadways. Mead & Hunt did not enter adjacent properties.

B. Perimeter Observations

The land surrounding the airport property is a mix of agricultural fields, commercial businesses, and a few residential properties. To the north are several commercial businesses along Westview Lane. These include Ace hardware, Mainstay Suites, O'Reily Auto Parts, Tractor Supply, Cashwise Foods, and the Holiday Gas Station. Each of these properties appear to be newly built and well maintained. To the east is predominantly agricultural fields in production. Northeast is Mountrail-Williams Electric. To the west and south of the property is predominantly agricultural and two residences. Directly south of the proposed project area is an industrial building, appearing to be of recent construction and in good condition.

The presence of USTs was evident by filling ports at the Holiday gas station. No additional evidence of underground storage tanks, aboveground storage tanks (ASTs), stained soils, stressed vegetation, landfilling, or foul odors were noted in perimeter observations.

C. On-Site Observations

On-site observations revealed one active fuel location near the hangars connected to the taxiways. The hangars and associated buildings looked to be in good condition and well maintained. A small padmounted transformer was found outside of the Stanely Municipal Airport Hangar. The fuel location was found in good condition and clear of debris. The runway and taxi lanes were in good condition. The airport land surrounding the runway was a mix of open grasslands and agricultural land previously in production. Some snow was present in patches on the ground.



4. Records Review

A. Historical Use Development of the Airport and Periphery

Historical records of the Airport were not readily available. Development of the airport can be determined in the analysis of aerial photographs in the next section.

Today, the airport is one of three airports within Mountrail County, the others being New Town Municipal Airport and Trulson Field Airport. The Stanley Municipal Airport is used by local businesses and private pilots. It supports 13 buildings and houses 27 aircraft as of 2023.³

(1) Aerial Photographs

Aerial photography taken between 1938 and 2021 was reviewed to observe previous conditions and development of the property, as well as immediately adjacent properties. Images are included in **Appendix G**.

The earliest photograph of the area, taken in 1938, shows the general vicinity of the Airport mostly under cultivation, with only 61st St. NW in its current configuration. Several farmsteads are located around the perimeter of present-day Airport property.

The Airport was constructed in pieces with the first hard surface runway appearing in between 1967 and 1974 in a similar location to the now existing Runway 10/28. By 1997, Runway 10/28 is evident as well as the main airport terminal areas off of 82nd Ave NW. By 1997, additional hangars and maintenance buildings exist northeast of the main runway. From 2005 to 2022, the airport sees minor development of supporting structures, but stays generally unchanged.

Between 1974 and 1984, U.S. Route 2 is constructed north of the airport. However, commercial development along the northern border of the airport does not come until 2014, where it is seen in construction. By 2016 is it fully built out.

A farmstead is evident just south of the project area in the 1938 aerial. It remains throughout the timeframe covered by the aerials and is evident in the 2022 one. Between 2012 and 2014, structures are built or being built west of the farmstead.

The pattern of agricultural use, both row cropping and forage production, in areas around the airfield and within Airport property, observed since the airport's construction, continues to the present.

(2) Land Use

In general, the surrounding land uses are compatible with the Airport. Historical and existing land use is primarily agricultural. There has been commercial development since 2014 that is getting closer to Airport property, specifically in the northeast and southwest areas. Little to no other types of land use

³ Stanley Municipal Airport. AirNAv.com. <u>AirNav: 08D - Stanley Municipal Airport</u>

development (e.g., residential, industrial, office) have been observed around the immediate vicinity of the airport. The surrounding land uses around the project area have largely been agricultural or commercial.

B. Standard Environmental Record Sources

Previously reported hazardous materials sites were identified based on a review of federal and state agency records and online databases for potential hazardous materials contamination sites in accordance with ASTM standards. The following databases were searched:

- North Dakota Department of Environmental Quality
 - Leaking Underground Storage Tank Registry
 - <u>Leaking Underground Storage Tanks North Dakota Department of Environmental Quality</u>
- Combined Environmental Reporting Information System (CERIS-ND)
 - o Combined Environmental Reporting Information System North Dakota (nd.gov)
- Envirofacts, U.S. Environmental Protection Agency
 Multisystem Search | Envirofacts | US EPA

The following findings are based on data obtained from regulatory database searches and reviews of other available information. Federal and state database searches returned 5 records associated with parcels located on or within one-quarter mile of the Airport. Records for sites within one-quarter mile include registered ASTs and USTs, and hazardous waste generators. A list of sites identified is included in Table 2. A corresponding map is included in **Appendix H**. Available site reports are provided in

Appendix I. A third-party ESIS Report is included in **Appendix J**.

Table 2. Sites Located Within the Vicinity of Proposed Project Activities

Site Number	Туре	Status	Search Radius	Reference
1	Stanley Municipal Airport	Active	Target Property, exact location unknown	Stanley Municipal Airport
2	Underground Storage Tanks	Active	0.50 mi	Holiday Stationstore
3	Very Small Quantity Generator	Active	0.40 mi	Truck Supply
4	Very Small Quantity Generator	Active	0.70 mi	Mountrail Williams Electric Cooperative
5	Very Small Quantity Generator	Active	0.50 mi	Cash Wise Foods

5. Interviews

A. Interview with Owner

An interview was not conducted the with the Airport maintenance manager. Due to the lack of findings adjacent to the proposed work and the land being primarily forested, additional information from the owner was deemed not necessary. A User Questionnaire was provided to the Airport maintenance manager but was not returned.

B. Interview with Occupants

No interviews were conducted with the airport occupants as no record results were determined to warrant additional information from occupants.

C. Interview with Local Government Officials

No individual local government officials were interviewed as no record results were determined to warrant additional information from local officials.

D. Interviews with Others

No additional interviews were conducted.

6. Evaluation

A. Findings

The Phase I ESA was completed in accordance with ASTM International Standard E1527-21, Standard Practice for *Environmental Site Assessments: Phase I Environmental Site Assessment Process* and USEPA AAI regulations under 40 CFR Part 312. This report summarizes the results of Mead & Hunt's investigation of the subject property and database review. No other environmental issues are assessed beyond the scope of ASTM E1527-21 in connection with this Phase I ESA.

Findings are listed below by site. Multiple records may exist for one location, for instance the general Airport property. However, each site was evaluated individually. A corresponding map of findings illustrating their location to the proposed project area is included in **Appendix H**.

Site 1, Stanley Municipal Airport, had a Leaking Underground Storage Tank (LUST) that was cleaned up and permanently removed on 10/22/1991. The exact location is unknown. It had a 1,000 gallon capacity and contained gasoline. No additional information about the LUST was available. No other records of previously reported hazardous materials incidents were found. No evidence of contamination from the site was identified during site reconnaissance.

Site 2, Holiday Stationstore #432, has a 20,000 gallon capacity underground storage tank that contains diesel or B20. Installed on 10/15/2013, the tank remains in operation today with no known or documented spills. Additionally, it has two 20,000 gallon capacity underground storage tanks that contain gasoline or E10 that were installed on 9/11/2013 and remain in operation today with no known or documented spills. The site is also listed as an RCRA Very Small Quantity Generator (VSQG) handling ignitable, corrosive, and reactive waste. It is located within 0.25 miles of the airport property to the north along Westview Lane. While this site is regulated, it has no records of previously reported hazardous materials incidents. No evidence of contamination from the site was identified during site reconnaissance.

Site 3, Tractor Supply, is listed as a RCRA VSQG. It is located within 0.25 miles of the airport property to the north along Westview Lane. The site is documented to have ignitable and corrosive waste. While this site is regulated, it has no records of previously reported hazardous materials incidents. No evidence of contamination from the site was identified during site reconnaissance.

Site 4, Mountrail Williams Electric Cooperative, is located within 0.25 miles of the airport property. It is listed as an Above ground Storage Tank (AST). The tank was installed on 7/25/2017, has a capacity of 2,000 gallons and contains diesel. While this site is regulated, it has no records of previously reported hazardous materials incidents. No evidence of contamination from the site was identified during site reconnaissance.

Site 5, Cash Wise Foods, is located within 0.25 miles of the airport property. It was identified using the EPA's Envirofacts database. It is listed as a RCRA VSQG and is documented to handle ignitable, corrosive and reactive waste. The EPA compliance summary lists no violations identified. While this site is regulated, it has no records of previously reported hazardous materials incidents. No evidence of contamination from the site was identified during site reconnaissance.

Site 6, Stanley Municipal Airport fuel depot (Map ID 6), is located on the airport property near the hangars. Four above ground storage tanks were identified during site reconnaissance. Two tanks appeared to be 12,000 gallon 100LL aviation fuel tanks, another appeared to be a 12,000 gallon Jet A fuel tank and the last a gasoline tank of unknown capacity. All four tanks appear to be in good condition with no evidence of leaks or spills. While this site is regulated, it has no records of previously reported hazardous materials incidents. No evidence of contamination from the site was identified during site reconnaissance.

Site 7, underground utilities lines (see Appendix C), are located within the project area and beyond extending off the airport property. There are three underground utility lines that run beneath the Airport: a Montana-Dakota Utilities (MDU) natural gas pipeline, a Williston Basin Interstate (WBI) natural gas pipeline, and a U.S. Air Force missile communication cable (AFCC). All three of these underground utility lines are north of Runway 10/28. The MDU pipeline runs east-west, the WBI pipeline runs southeast-northwest, and the U.S. AFCC runs northeast-southwest. The proposed turf crosswind runway crosses the MDU pipeline and U.S. AFCC, while the RPZ overlays the WBI pipeline. While these entities are regulated, there are no records of previously reported hazardous materials incidents. No evidence of contamination from the site was identified during site reconnaissance.

7. Conclusions

Mead & Hunt has performed a Phase I ESA of the Stanley Municipal Airport property located in Stanley, North Dakota, in conformance with our understanding of the scope and limitations of ASTM Practice E 1527-21. Any exceptions to, or deletions from, this practice are described in Section 1.D of this report.

This assessment has revealed no recognized environmental conditions, controlled recognized environmental conditions, or significant data gaps in connection with the subject property.

8. Statement of Environmental Professional

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 § 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the proposed action. I have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Signed,

Michael C. Lewis

Michael Lewis

Mark S. Sauer, AICP





Michael Lewis AICP CANDIDATE

Areas of Expertise

- # GIS
- Comprehensive Plans
- Data management

Education

- Master, Urban Planning, University of Wisconsin – Milwaukee, 2021
- BS, Environmental Geography, University of Wisconsin – Eau Claire, 2019

Registration/Certifications

 American Institute of Certified Planners (AICP), Candidate

Memberships

 American Planning Association (APA)

Linkedin URL

 www.linkedin.com/in/michaellewis-1a4a71180 Michael is an urban planner with hands-on experience at Public Works and Metropolitan Sewerage agencies. He has four years of experience with Geographical Information Systems (GIS) using ERSI and online programs, including ArcMap, ArcGIS Online, and QGIS. Additionally, he has two years of experience with long-range planning documents such as Comprehensive Plans, zoning codes, ordinances, and permits. He has served in public-facing roles, including handling public feedback and educating homeowners on topics surrounding green infrastructure. He is also experienced with data analysis, pedestrian and bicycle planning, and land use planning.

Phase 1 Environmental Site Assessment Experience

Michael has completed abbreviated Phase 1 Environmental Site Assessments for the following projects:

Transportation

WisDOT NW Region

- Kington Road Bridge Replacement, Nelson Creek, Clark County, WI.
- Lien Lane Bridge Replacement, North Fork Beaver Creek, Trempealeau County, WI

WisDOT NC Region

County U Reconstruction, Bangor to Rockland, La Crosse County, WI.

Other Planning and Environmental Experience

NEPA

WisDOT NE Region

- IH-43 Resurfacing, Green Bay to Manitowoc, Brown County, WI
- Lawrence Drive Reconstruction, Fortune Avenue to Scheuring Road, Brown County, WI
- Rest Area Reconstruction, Rest Areas 51 & 52, Manitowoc County,

WisDOT NC Region

- · Kington Road Bridge Replacement, Nelson Creek, Clark County, WI.
- WIS 29, Chippewa Falls to Abbotsford, Clark County, WI
- Lien Lane Bridge Replacement, North Fork Beaver Creek, Trempealeau County, WI
- . WIS 95, County A to 250' W of WIS 93, Trempealeau County, WI

WisDOT SW Region

- CTH U, Bangor to Rockland, La Crosse County, WI
- WIS 162, Stoddard to Chaseburg, Vernon County, WI

Date Fig. 10 0000 Thee 1





Mark Sauer, AIGP PLANNER/TRANSPORTATION PLANNER

Areas of Expertise

- Comprehensive Smart Growth planning
- Park planning and design
- Land and site planning
- Urban design
- Land division and zoning change procedures
- Zoning code and policy analysis
- Presentation graphics
- Public involvement/charettes
- NEPA documentation
- Environmental Permitting
- Transportation corridor studies
- Grant applications
- Phase 1 Environmental Site Assessments
- Section 4(f)

Education

- Master of Urban Planning, University of Wisconsin – Milwaukee (2011)
- Bachelor of Urban Planning, University of Cincinnati (2008)

Registration

 American Institute of Certified Planners (AICP) (2015)

Training

 Phase I & Phase II Environmental Site Assessment Processes, ASTM International (2017) Mark Sauer has worked in diverse professional workplaces designing and leading projects in the A&E industry both domestically and internationally for over ten years. He has expertise in comprehensive and sub-area planning, site design, urban and rural transportation studies, land division and zoning procedures, public involvement, and presentation visualizations. He has prepared numerous environmental documents including Categorical Exclusions, Environmental Reports, Environmental Assessments, and Indirect and Cumulative Effects Analyses. He has specialized training in Section 4(f) and Phase 1 Environmental Site Assessments.

Mark has completed Phase 1 Environmental Site Assessments for the following projects:

Transportation

WisDOT NC Region

- . County K Bridge Replacement, Wisconsin River, Vilas County, WI
- County GG Bridge Replacement, Cranberry Creek, Wood County, WI
- . County J Bridge Replacement, Little Wolf River, Waupaca County, WI

WisDOT NE Region

- WIS 32 Resurfacing, Main Avenue & Reid Street, City of De Pere, Brown County
- Rest Areas 51 (Maribel) and 52 (Denmark) Reconstruction, I-43, Manitowoc County, WI
- Lawrence Drive Reconstruction, Fortune Avenue Scheuring Road, City of De Pere, WI
- I-43 Resurfacing, WIS 172 Atkinson Dr., Brown County, WI
- North Union Road Bridge Replacement, Branch River, Manitowoc County, WI
- Old Hwy 47 Bridge Replacement, Toad Creek, Outagamie County, WI
- Maloney Road Bridge Replacement, Branch Apple Creek, Outagamie County, WI
- WIS 57 Resurfacing, WIS 42 Summit Road, Door County, WI
- . County BB Bridge Replacement, Little River, Marinette County, WI
- South Union Road Bridge Replacement, Point Creek, Manitowoc County, WI
- WIS 67 Resurfacing/ Reconstruction, West County Line East County Line, Fond du Lac County, WI

WisDOT NW Region

- Joe Coulee & Hagestad Road Bridge Replacements, North Fork Beaver Creek, Trempealeau County, WI
- County O Reconstruction, Gibson St. WIS 13, Taylor County, WI
- . I-94 Bridge Replacements, Rush River, St. Croix County, WI
- WIS 88 Reconstruction, County U WIS 37, Buffalo County, WI
- Owen Avenue Bridge Replacement, Rock Creek, Clark County, WI



Mark Sauer, AICP



 WIS 29 Pavement Replacement, Koser Avenue to County D, Clark County, WI

WisDOT SW Region

- WIS 95 Resurfacing, Main Street. County A to 250' West of WIS 93, City of Arcadia, Trempealeau County
- WIS 16 Reconstruction, Wisconsin Dells Portage, Columbia Co., WI
- WIS 16/60 Urban Reconstruction, US 151 River Road, Columbia County, WI
- WIS 16 Intersection Improvements, La Crosse & Onalaska County, WI
- WIS 173 Reconstruction, WIS 21 County Line, Monroe & Juneau County, WI
- WIS 162 Resurfacing & Bridge Replacements, Coon Valley Bangor, Vernon & La Crosse County, WI
- WIS 162 Resurfacing & Bridge Replacements, Village Park Drive to Depot Street, Vernon County, WI
- WIS 16 Pavement Replacement, County L / Business 26 to E. Main Street, Dodge & Jefferson County, WI
- WIS 19 Pavement Replacement, Crawford River Bridge to Gypsy Road, Dodge & Jefferson County, WI

Transportation Other

Dunbar Toll Bridge Replacement, Kanawha County, WV

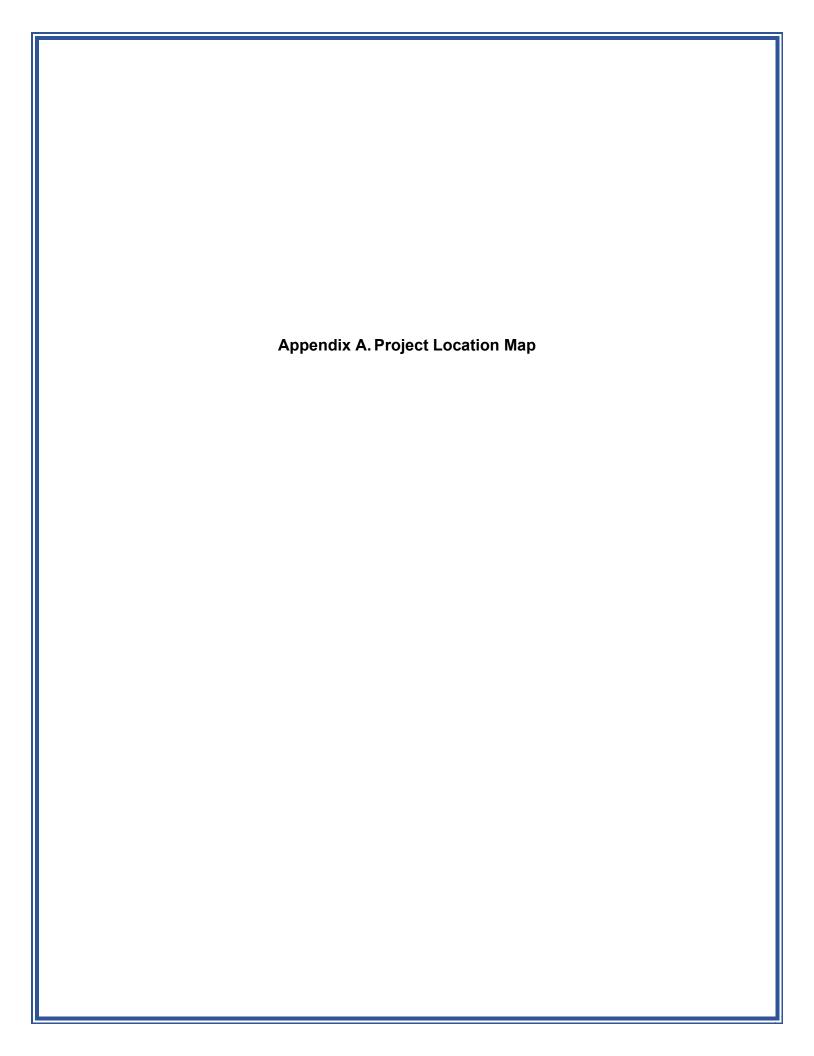
Aviation

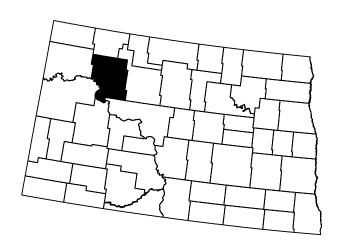
- 21D, Lake Elmo Airport, Runway 14/32 Relocation and Associated Improvements, Washington County, MN (142 acres)
- AGS, Augusta Regional Airport, Aviation Improvements, Richmond County, GA
- BIV, West Michigan Regional Airport, Land Release, City of Holland, Ottawa and Allegan County, MI (32 acres)
- BTL, W.K. Kellogg Airport, Mass Grading, City of Battle Creek, Calhoun County, MI (120 acres)
- CMX, Houghton County Memorial Airport, Runway 25 Obstructions Clearing, Houghton, MI (20 acres)
- OCQ, J. Douglas Bake Municipal Airport, Land Acquisition, Oconto County, WI (140 acres)
- OGM, Ontonagon County Airport Schuster Field, Runway 17 Obstructions Clearing, Ontonagon County, MI (4 acres)
- MSN, Dane County Regional Airport, East Side Hangar Development, City of Madison, Dane County, WI (50 acres)

Land Development

- . Chr. Hansen Land Acquisition, Wausau, WI (18 acres)
- Oakwood Village University Woods Campus, Madison, WI (35 acres)
- Oakwood Village Prairie Ridge Campus, Madison, WI (18 acres)
- Historic Iowa State Penitentiary, Land Release, Fort Madison, IA (55 acres)
- Parcel SC-194, Residential Development, Town of Scott, Brown County, WI (40 acres)
- Salm Partners, LLC, Commercial Development, Village of Denmark, Brown County, WI (26 acres)









Mountrail County, North Dakota

Project Vicinity



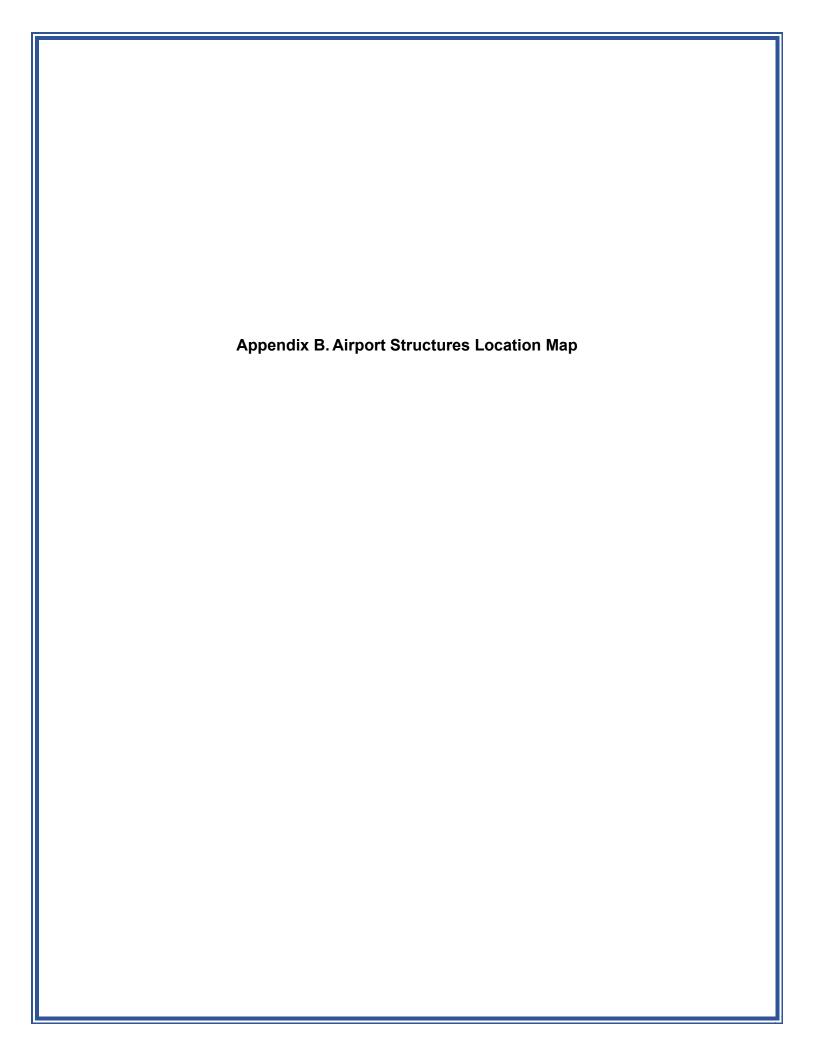
Project Location

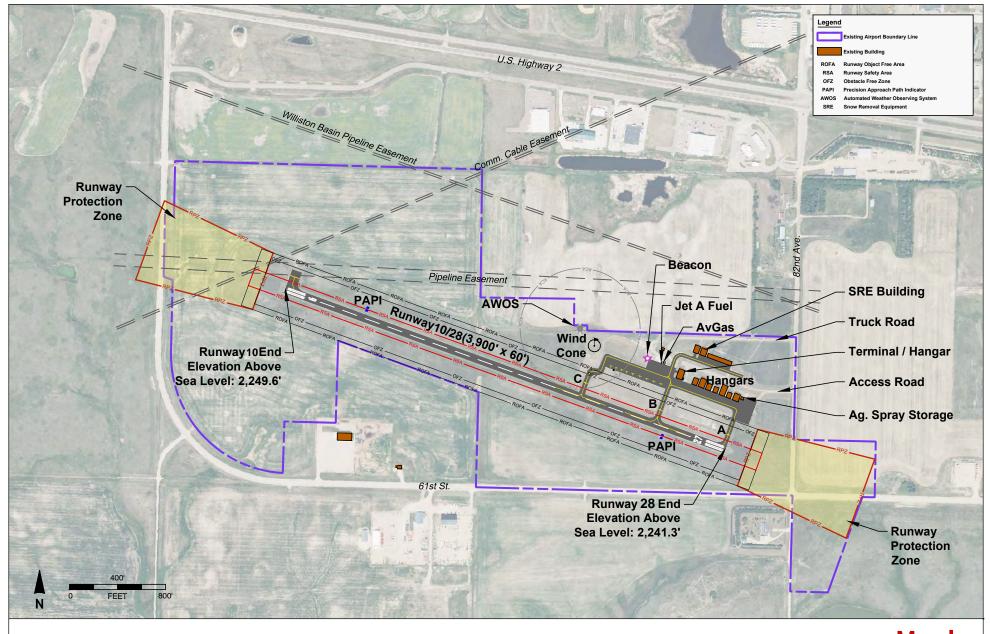
0 0.25 0.5 Miles

Stanley Municipal Airport
Turf Crosswind Runway 2/20 Construction
Stanley Municipal County, North Dakota

12/22/2023

Esri Community Maps Contributors, State of North Dakota, Esri, HERE,

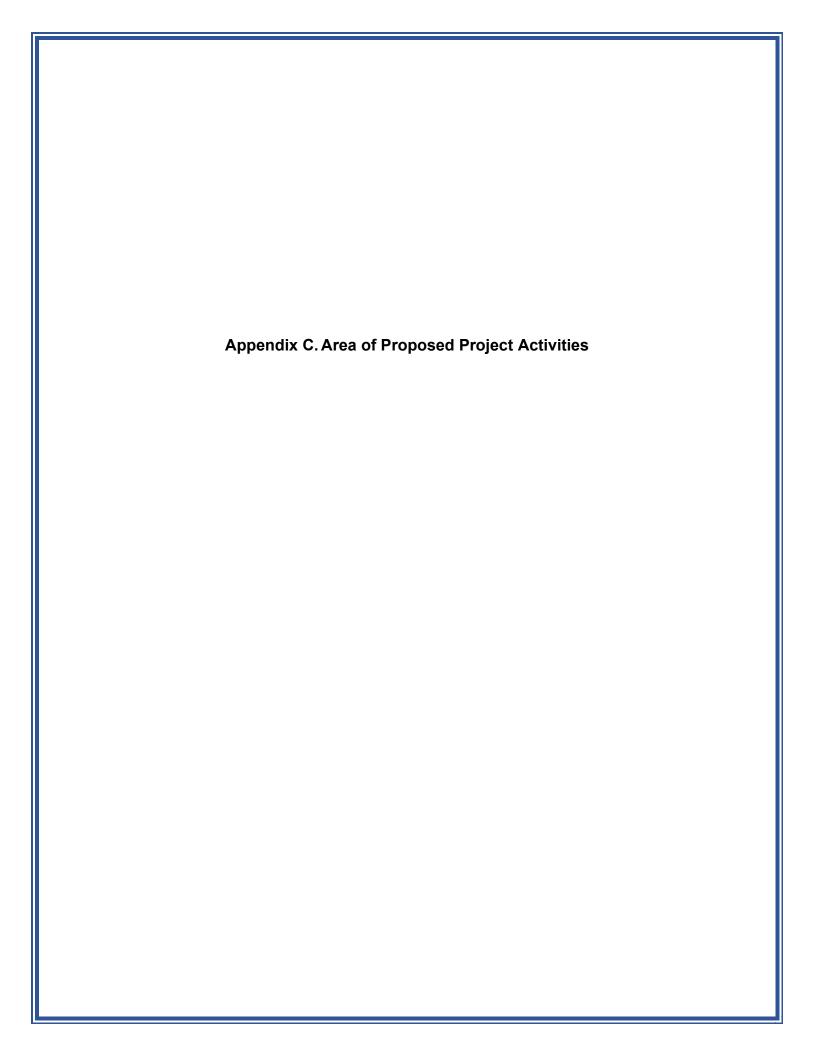


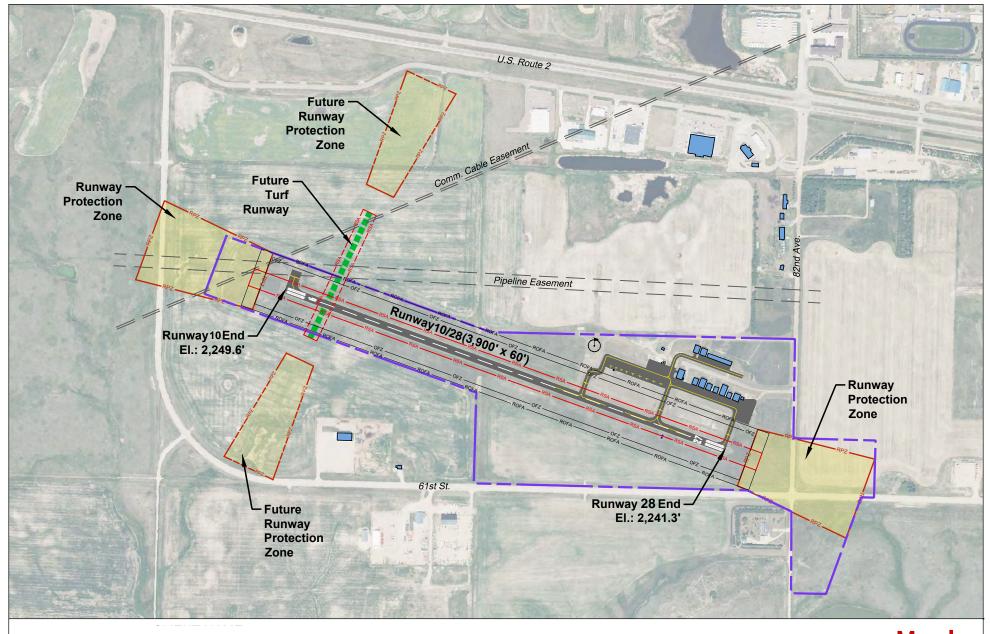


STANLEY MUNICIPAL AIRPORT STANLEY, ND

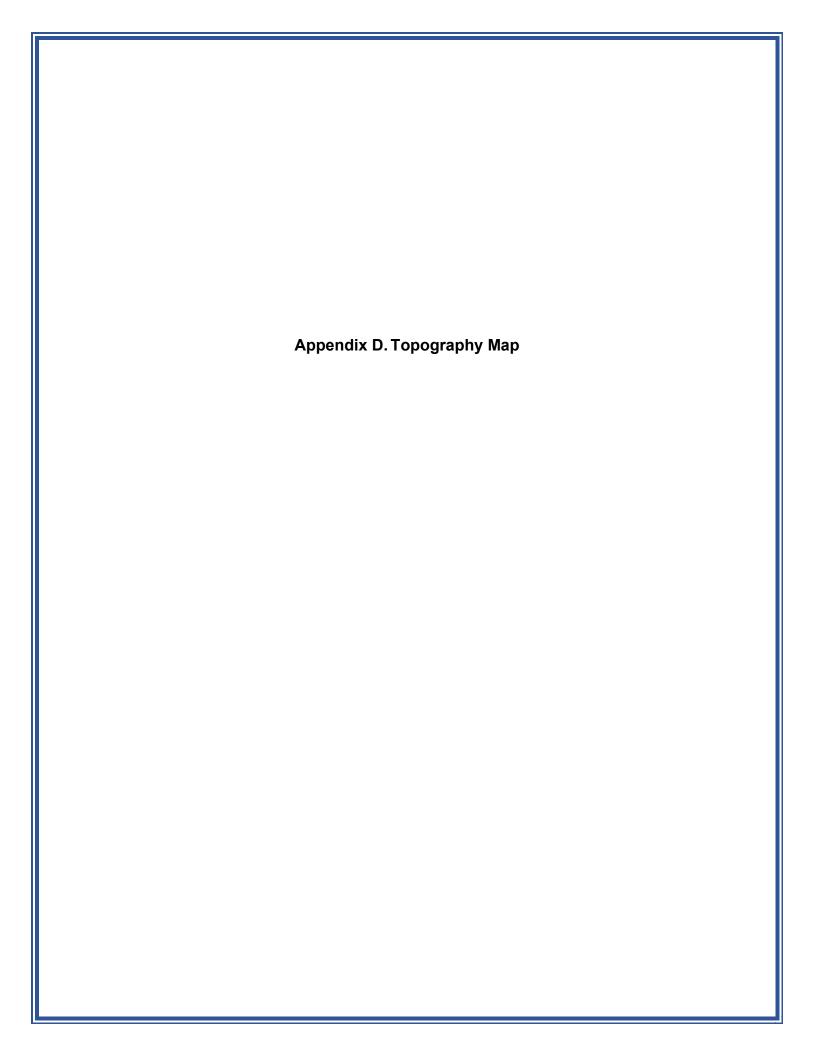
EXISTING AIRPORT FACILITIES













Property Information

Order Number: 23101200256p

Date Completed: October 12, 2023

Project Number: 4545300-230576.01

Project Property: Stanley Municipal Airport

Stanley Municipal Airport Stanley ND

Coordinates:

Latitude: 48.3023571 Longitude: -102.40766666

 UTM Northing:
 5353155.02805 Meters

 UTM Easting:
 692236.285626 Meters

UTM Zone: UTM Zone 13U Elevation: 2,239.31 ft

Slope Direction: SE

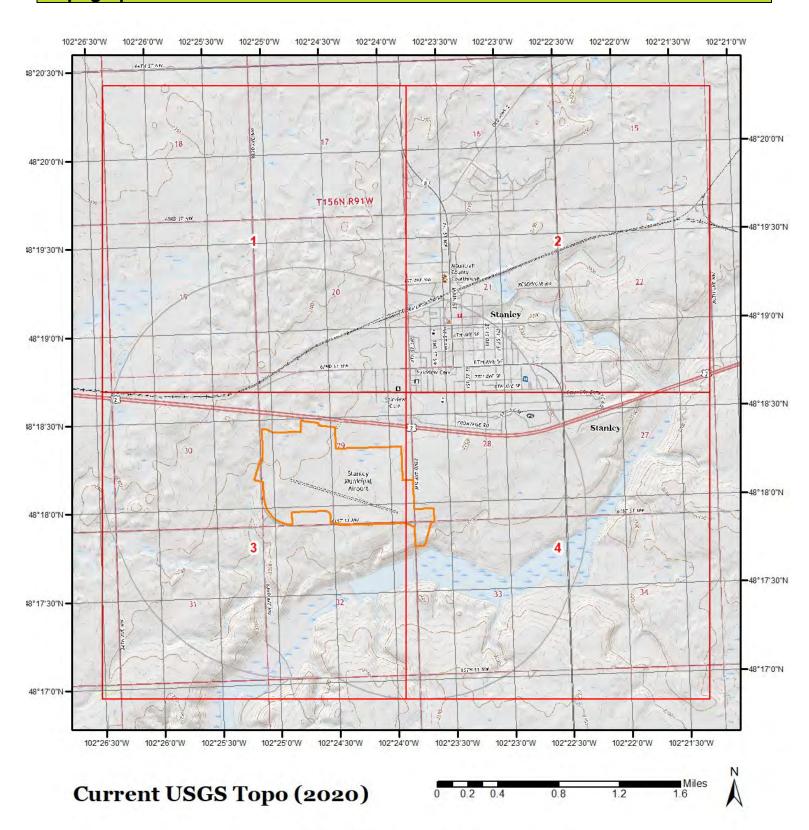
Topographic Information	2
Hydrologic Information	12
Geologic Information	19
Soil Information	23
Wells and Additional Sources	52
Summary	57
Detail Report	60
Radon Information	92
AppendixLiability Notice	95

The ERIS *Physical Setting Report - PSR* provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

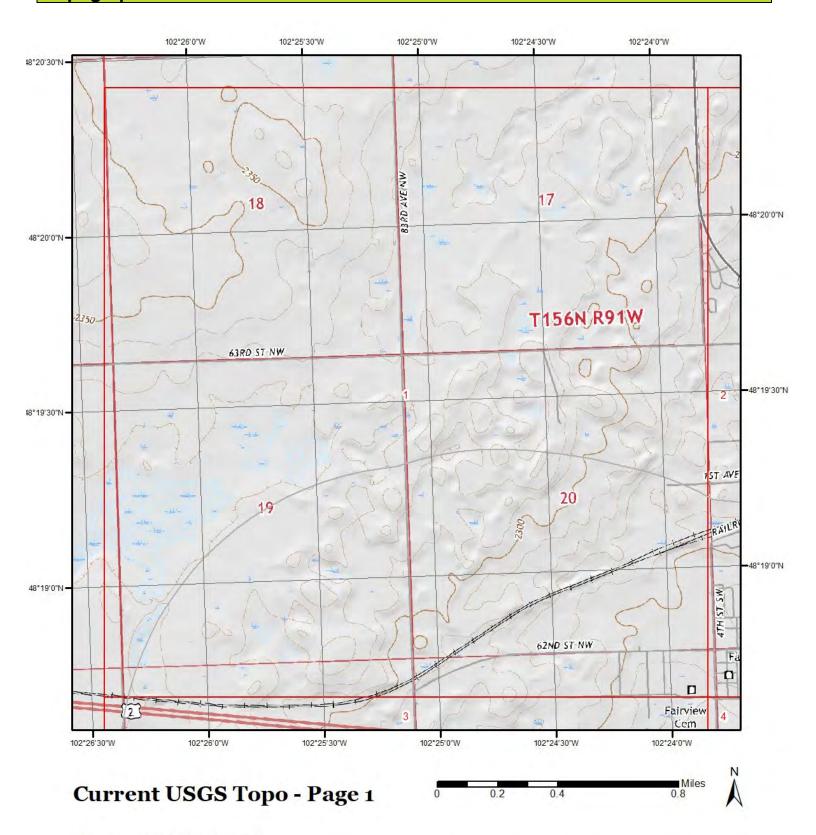
Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.



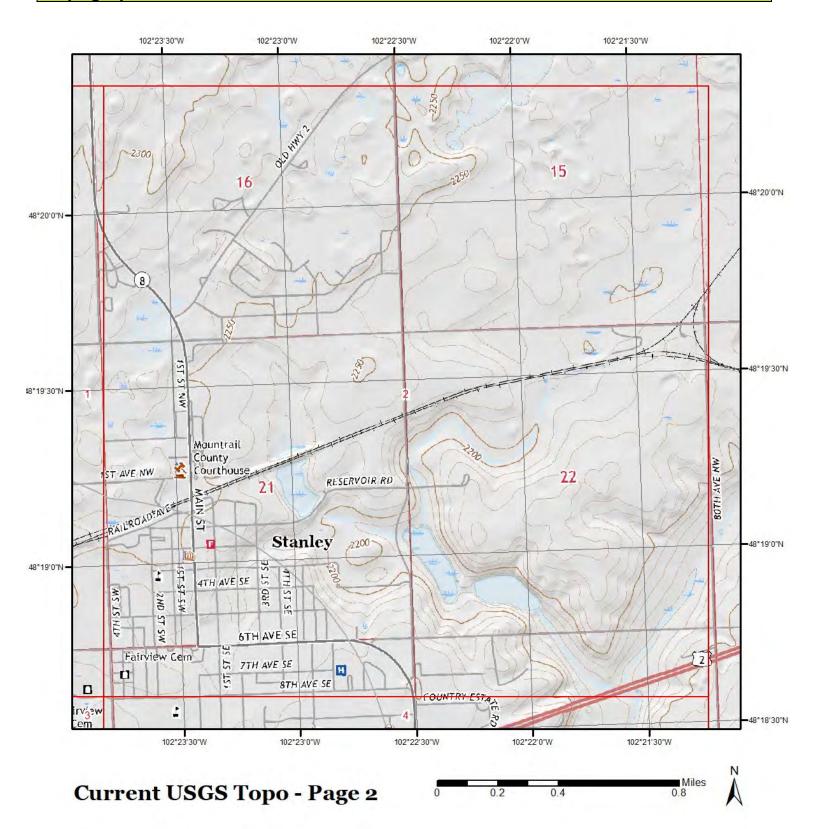
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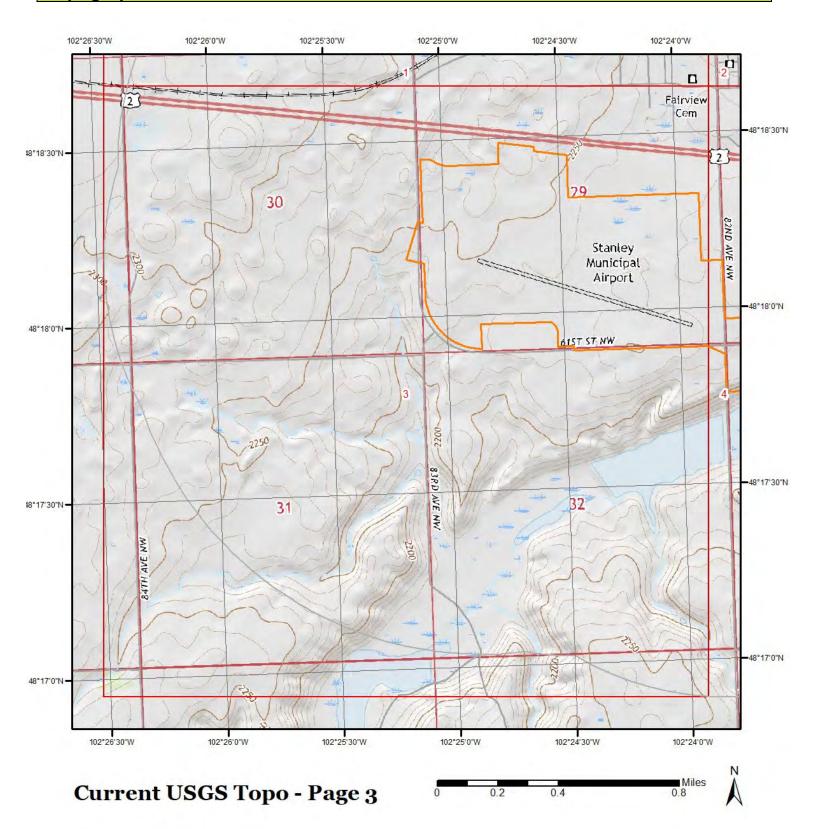
Quadrangle(s): Stanley,ND





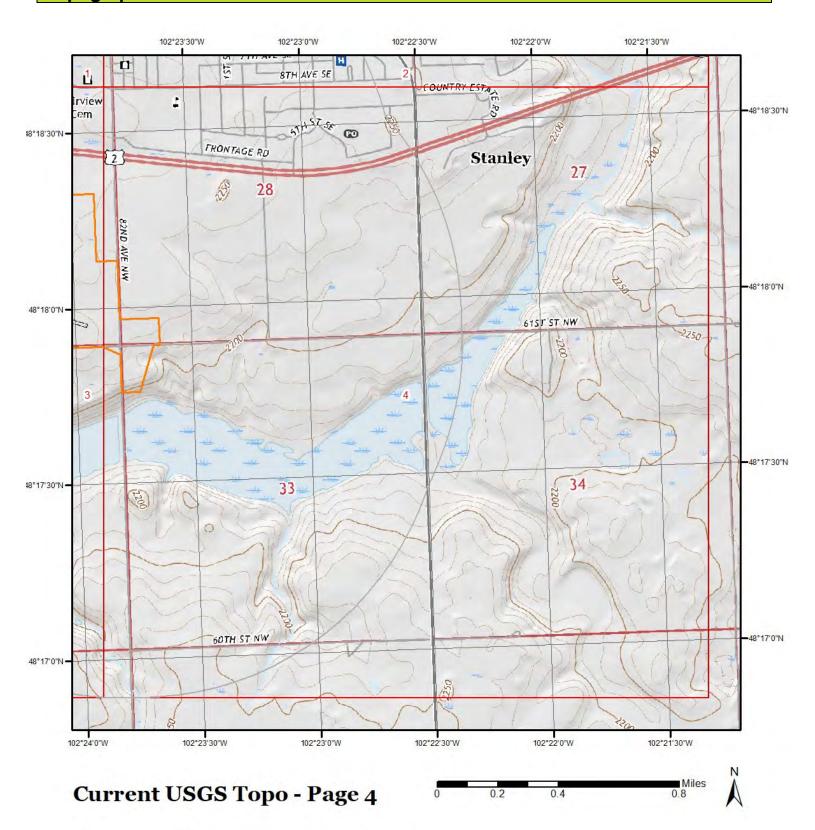
Quadrangle(s): Stanley,ND; Stanley SE,ND





Quadrangle(s): Stanley,ND





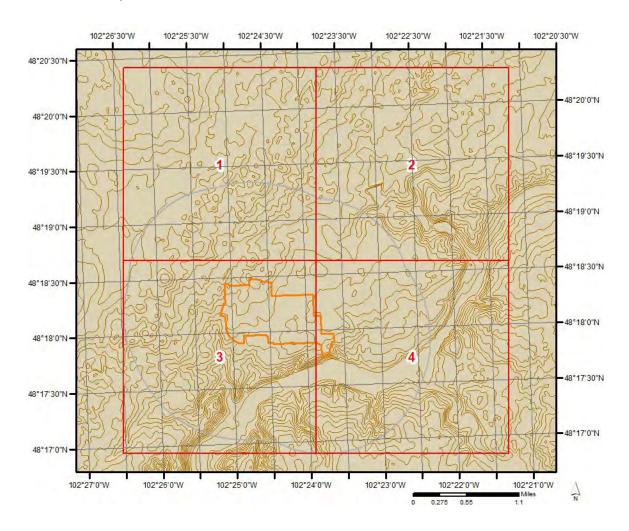
Quadrangle(s): Stanley,ND; Stanley SE,ND

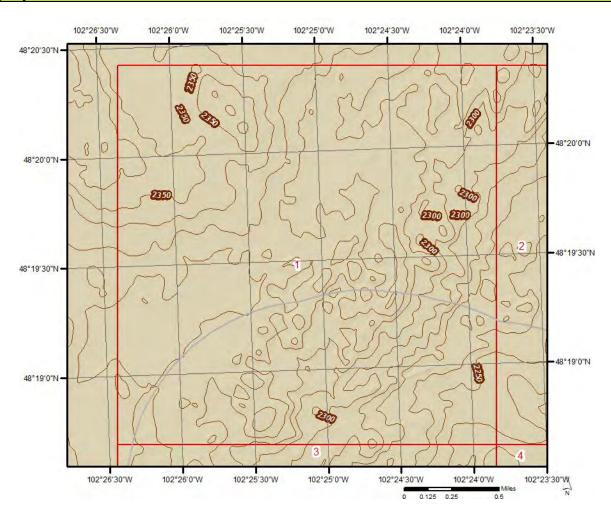


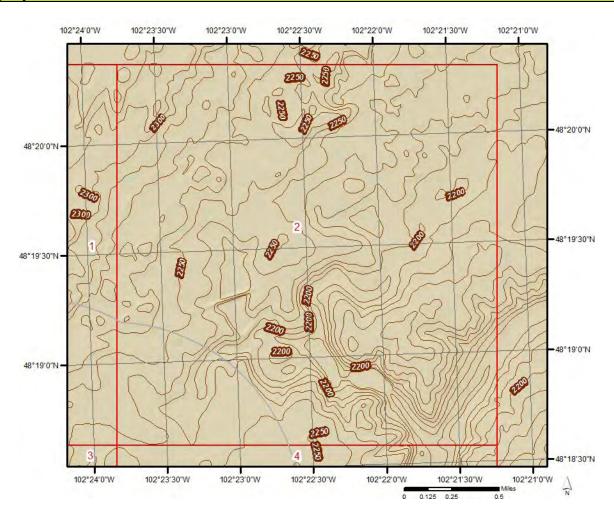
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

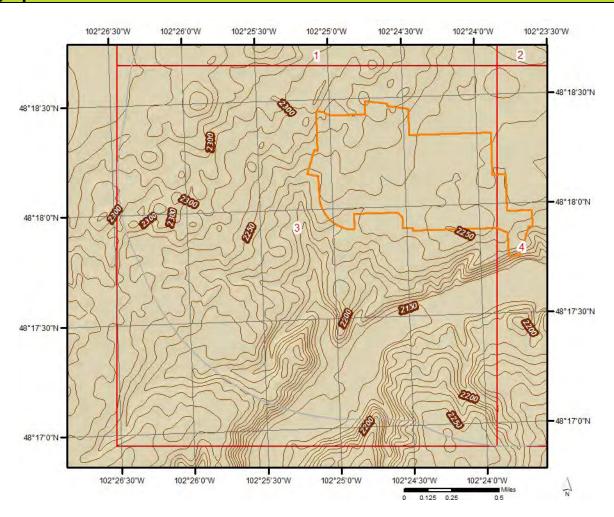
Elevation: 2,239.31 ft Slope Direction: SE





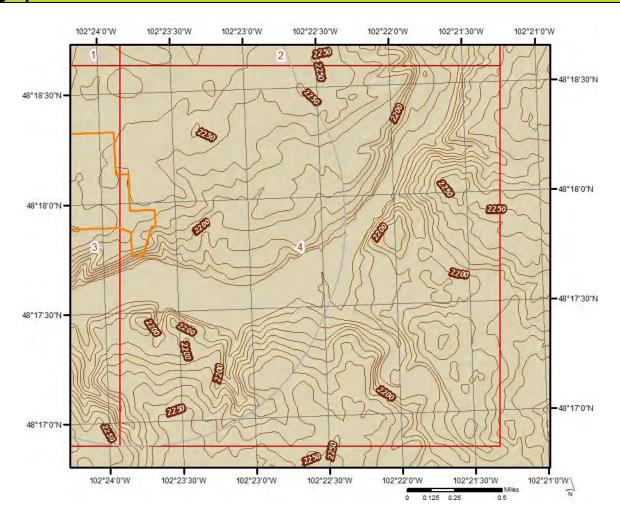


Topographic Information

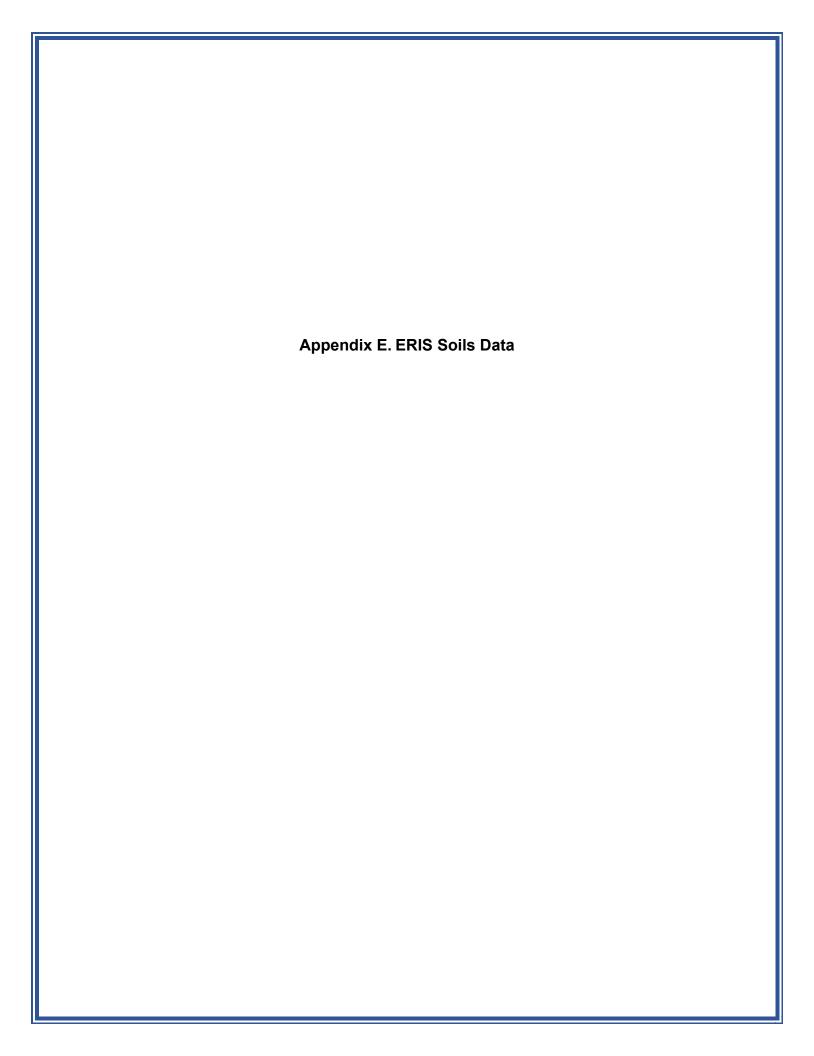


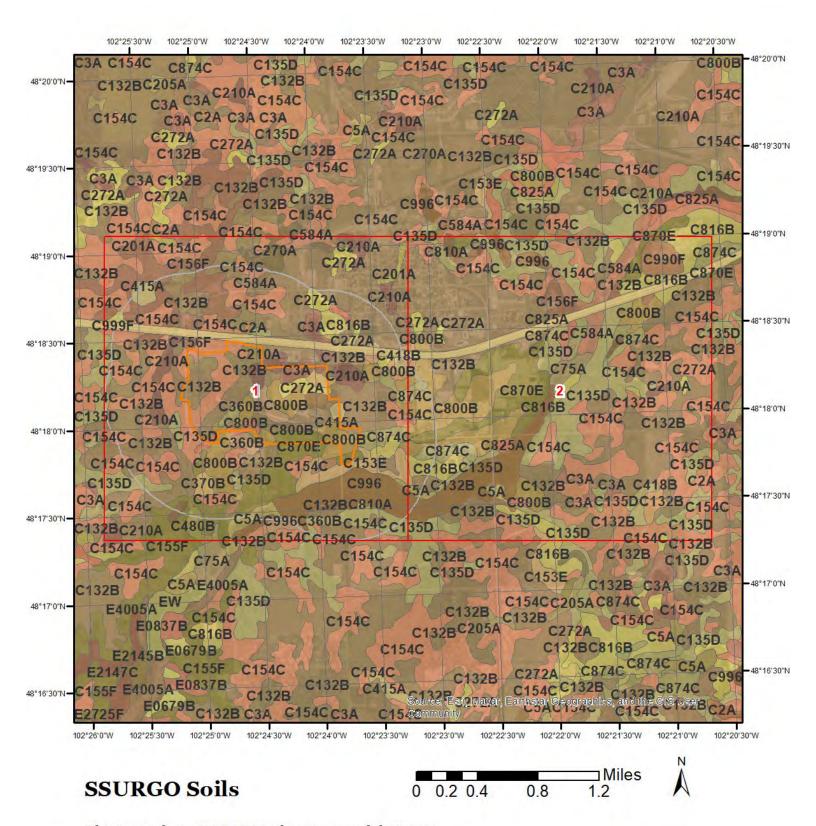
Order No: 23101200256p

Topographic Information



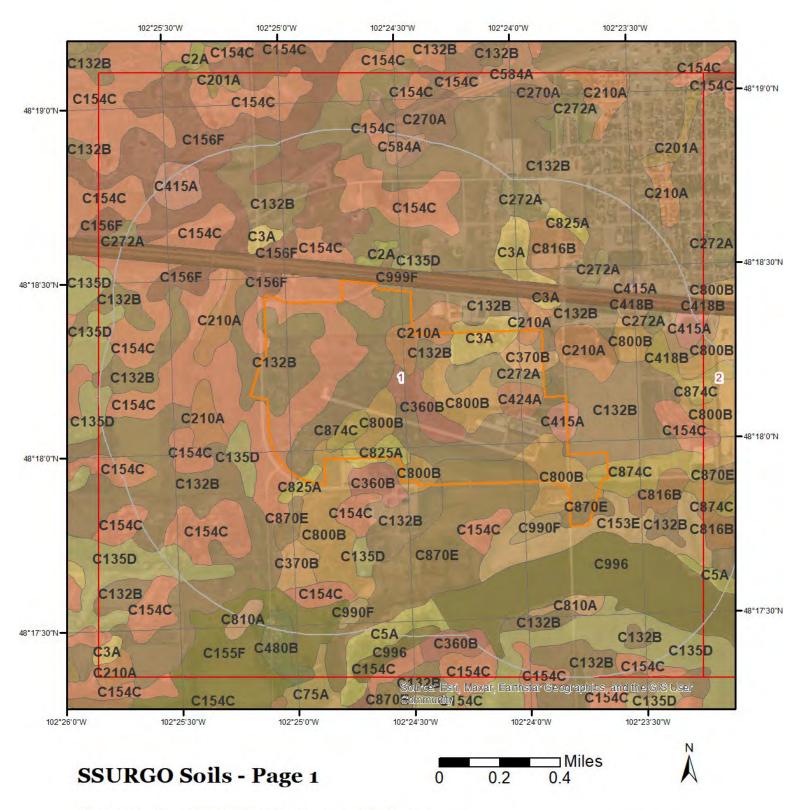
Order No: 23101200256p





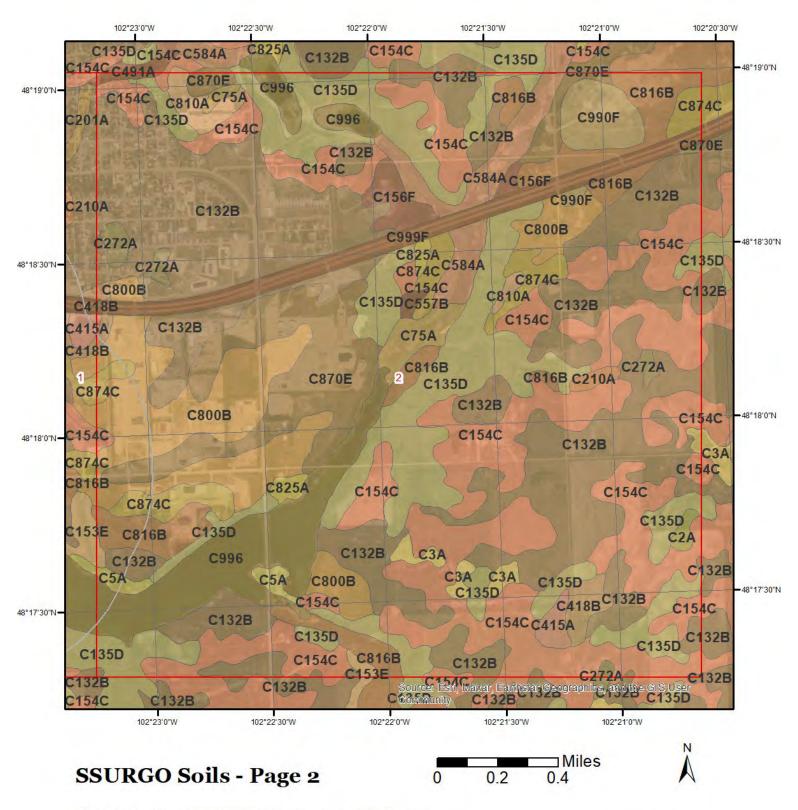
This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.





This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.





This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.



The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit C132B (48.49%)

Map Unit Name: Williams-Zahl loams, 3 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Williams(54%)

horizon Ap(0cm to 15cm)

horizon Bt1(15cm to 25cm)

horizon Bt2(25cm to 38cm)

horizon Btk(38cm to 61cm)

horizon Bk(61cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Clay loam

Zahl(20%)

horizon Ap(0cm to 14cm)

horizon Bk(14cm to 55cm)

horizon C(55cm to 200cm)

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C132B - Williams-Zahl loams, 3 to 6 percent slopes

Component: Williams (54%)

The Williams component makes up 54 percent of the map unit. Slopes are 3 to 6 percent. This component is on ground moraines on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Zahl (20%)

The Zahl component makes up 20 percent of the map unit. Slopes are 3 to 6 percent. This component is on ground moraines on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Order No: 23101200256p

Component: Bowbells (11%)

Generated brief soil descriptions are created for major soil components. The Bowbells soil is a minor component.

Component: Zahill (8%)

Generated brief soil descriptions are created for major soil components. The Zahill soil is a minor component.

Component: Hamerly (4%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Tonka (2%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Noonan (1%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Map Unit C135D (4.27%)

Map Unit Name: Zahl-Williams loams, 9 to 15 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Zahl(41%)

horizon A(0cm to 12cm)

horizon Bk(12cm to 55cm)

Clay loam

horizon C(55cm to 200cm)

Clay loam

Williams(30%)

horizon Ap(0cm to 15cm)

horizon Bt1(15cm to 25cm)

horizon Bt2(25cm to 38cm)

horizon Btk(38cm to 61cm)

horizon Bk(61cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C135D - Zahl-Williams loams, 9 to 15 percent slopes

Component: Zahl (41%)

The Zahl component makes up 41 percent of the map unit. Slopes are 9 to 15 percent. This component is on hills on till plains, ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Williams (30%)

The Williams component makes up 30 percent of the map unit. Slopes are 9 to 15 percent. This component is on hills on till plains, ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowbells (9%)

Generated brief soil descriptions are created for major soil components. The Bowbells soil is a minor component.

Component: Zahill (9%)

Generated brief soil descriptions are created for major soil components. The Zahill soil is a minor component.

Component: Niobell (3%)

Generated brief soil descriptions are created for major soil components. The Niobell soil is a minor component.

Component: Wabek (3%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Parnell (3%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Hamerly (2%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Map Unit C153E (0.64%)

Map Unit Name: Zahl-Max loams, 15 to 25 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Zahl(50%)

horizon A(0cm to 14cm)

horizon Bk(14cm to 55cm)

Clay loam

horizon C(55cm to 200cm)

Clay loam

Max(34%)

horizon A(0cm to 15cm)

horizon Bw(15cm to 31cm)

horizon Bk(31cm to 88cm)

horizon C(88cm to 200cm)

Loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C153E - Zahl-Max loams, 15 to 25 percent slopes

Component: Zahl (50%)

The Zahl component makes up 50 percent of the map unit. Slopes are 15 to 25 percent. This component is on disintegration moraines on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Max (34%)

The Max component makes up 34 percent of the map unit. Slopes are 15 to 25 percent. This component is on disintegration moraines on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Arnegard (6%)

Generated brief soil descriptions are created for major soil components. The Arnegard soil is a minor component.

Component: Parnell (5%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Tonka (3%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Wabek (1%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Zahl (1%)

Generated brief soil descriptions are created for major soil components. The Zahl, very stony soil is a minor component.

Map Unit C154C (6.15%)

Map Unit Name: Zahl-Williams-Bowbells loams, 3 to 9 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Null

130cm

Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Zahl(40%)

horizon Ap(0cm to 14cm)

horizon Bk(14cm to 55cm)

Clay loam

horizon C(55cm to 200cm)

Clay loam

Williams(24%)

horizon Ap(0cm to 15cm)

horizon Bt1(15cm to 25cm)

horizon Bt2(25cm to 38cm)

horizon Btk(38cm to 61cm)

horizon Bk(61cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Clay loam

Bowbells(16%)

horizon Ap(0cm to 15cm)

horizon Bt(15cm to 58cm)

horizon Bk(58cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C154C - Zahl-Williams-Bowbells loams, 3 to 9 percent slopes

Component: Zahl (40%)

The Zahl component makes up 40 percent of the map unit. Slopes are 6 to 9 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Williams (24%)

The Williams component makes up 24 percent of the map unit. Slopes are 6 to 9 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Order No: 23101200256p

Component: Bowbells (16%)

The Bowbells component makes up 16 percent of the map unit. Slopes are 3 to 6 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 51 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY005ND Loamy Overflow ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Zahill (12%)

Generated brief soil descriptions are created for major soil components. The Zahill soil is a minor component.

Component: Hamerly (3%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Livona (2%)

Generated brief soil descriptions are created for major soil components. The Livona soil is a minor component.

Component: Tonka (2%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Lehr (1%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Map Unit C155F (3.87%)

Map Unit Name: Zahl-Max-Arnegard loams, 15 to 60 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Zahl(40%)

horizon A(0cm to 12cm)

horizon Bk(12cm to 55cm)

Clay loam

horizon C(55cm to 200cm)

Clay loam

Max(30%)

horizon A(0cm to 15cm)

horizon Bw(15cm to 31cm)

horizon Bk(31cm to 88cm)

horizon C(88cm to 200cm)

Loam

Clay loam

Clay loam

Arnegard(19%)

horizon A(0cm to 30cm)

horizon Bw(30cm to 57cm)

horizon Bk(57cm to 93cm)

horizon C(93cm to 200cm)

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C155F - Zahl-Max-Arnegard loams, 15 to 60 percent slopes

Component: Zahl (40%)

The Zahl component makes up 40 percent of the map unit. Slopes are 25 to 60 percent. This component is on ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a

depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Max (30%)

The Max component makes up 30 percent of the map unit. Slopes are 25 to 60 percent. This component is on hills on till plains, ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Arnegard (19%)

The Arnegard component makes up 19 percent of the map unit. Slopes are 15 to 25 percent. This component is on swales on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Wabek (4%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Harriet (3%)

Generated brief soil descriptions are created for major soil components. The Harriet soil is a minor component.

Component: Noonan (3%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Component: Hamerly (1%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Map Unit C156F (3.6%)

Map Unit Name: Zahl-Max-Bowbells loams, 6 to 35 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Mell drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Zahl(54%)

horizon A(0cm to 12cm)

horizon Bk(12cm to 55cm)

horizon C(55cm to 200cm)

Clay loam

Clay loam

Max(22%)

horizon A(0cm to 15cm)

horizon Bw(15cm to 31cm)

horizon Bk(31cm to 88cm)

horizon C(88cm to 200cm)

Loam

Clay loam

Clay loam

Bowbells(18%)

horizon Ap(0cm to 15cm)

horizon Bt(15cm to 58cm)

horizon Bk(58cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C156F - Zahl-Max-Bowbells loams, 6 to 35 percent slopes

Component: Zahl (54%)

The Zahl component makes up 54 percent of the map unit. Slopes are 15 to 35 percent. This component is on ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Max (22%)

The Max component makes up 22 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on till plains, ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowbells (18%)

The Bowbells component makes up 18 percent of the map unit. Slopes are 6 to 9 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 51 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY005ND Loamy Overflow ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Parnell (2%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Tonka (1%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Wabek (1%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Hamerly (1%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Noonan (1%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Map Unit C210A (0.88%)

Map Unit Name: Williams-Bowbells loams, 0 to 3 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Null

130cm

Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Williams(60%)

horizon Ap(0cm to 15cm)

horizon Bt1(15cm to 25cm)

horizon Bt2(25cm to 38cm)

horizon Btk(38cm to 61cm)

horizon Bk(61cm to 91cm)

horizon C(91cm to 200cm)

Clay loam

Clay loam

Bowbells(21%)

horizon Ap(0cm to 15cm)

horizon Bt(15cm to 58cm)

horizon Bk(58cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C210A - Williams-Bowbells loams, 0 to 3 percent slopes

Component: Williams (60%)

The Williams component makes up 60 percent of the map unit. Slopes are 0 to 3 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2c. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowbells (21%)

The Bowbells component makes up 21 percent of the map unit. Slopes are 0 to 3 percent. This component is on flats on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 51 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY005ND Loamy Overflow ecological site. Nonirrigated land capability classification is 2c. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Zahl (8%)

Generated brief soil descriptions are created for major soil components. The Zahl soil is a minor component.

Component: Hamerly (5%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Tonka (2%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Noonan (2%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Component: Lehr (1%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Parnell (1%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Order No: 23101200256p

Map Unit C270A (0.49%)

Map Unit Name: Hamerly loam, 0 to 3 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 76cm

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Hamerly(70%)

horizon Ap(0cm to 19cm)

horizon Bk(19cm to 86cm)

Clay loam

horizon C(86cm to 200cm)

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C270A - Hamerly loam, 0 to 3 percent slopes

Component: Hamerly (70%)

The Hamerly component makes up 70 percent of the map unit. Slopes are 0 to 3 percent. This component is on flats on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY004ND Limy Subirrigated ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 30 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Bowbells (8%)

Generated brief soil descriptions are created for major soil components. The Bowbells soil is a minor component.

Component: Hamerly (7%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Vallers (6%)

Generated brief soil descriptions are created for major soil components. The Vallers soil is a minor component.

Component: Tonka (4%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Parnell (3%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Noonan (2%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Map Unit C272A (0.45%)

Map Unit Name: Hamerly-Tonka complex, 0 to 3 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 0cm

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

Order No: 23101200256p

Major components are printed below

Hamerly(45%)

horizon Ap(0cm to 19cm)

horizon Bk(19cm to 86cm)

Clay loam

horizon C(86cm to 200cm)

Clay loam

Tonka(30%)

horizon Ap(0cm to 18cm)

horizon A(18cm to 33cm)

horizon E(33cm to 48cm)

Silt loam

horizon E(33cm to 48cm)

Loam

horizon Bt(48cm to 86cm) Silty clay loam

horizon 2BC(86cm to 127cm) Clay loam horizon 2Cg(127cm to 200cm) Loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C272A - Hamerly-Tonka complex, 0 to 3 percent slopes

Component: Hamerly (45%)

The Hamerly component makes up 45 percent of the map unit. Slopes are 0 to 3 percent. This component is on flats on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY004ND Limy Subirrigated ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 30 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Tonka (30%)

The Tonka component makes up 30 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on till plains. The parent material consists of local alluvium over till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during March, April, May. Organic matter content in the surface horizon is about 7 percent. This component is in the R053BY019ND Wet Meadow ecological site. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Vallers (6%)

Generated brief soil descriptions are created for major soil components. The Vallers soil is a minor component.

Component: Hamerly (6%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Parnell (5%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Wyard (5%)

Generated brief soil descriptions are created for major soil components. The Wyard soil is a minor component.

Component: Noonan (3%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Map Unit C2A (0.05%)

Map Unit Name: Tonka silt loam, 0 to 1 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 0cm

Drainage Class - Dominant: Poorly drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high

runoff potential when undrained.

Order No: 23101200256p

Major components are printed below

Tonka(70%)

horizon Ap(0cm to 18cm)

horizon A(18cm to 33cm)

horizon E(33cm to 48cm)

Silt loam

Loam

horizon Bt(48cm to 86cm)

horizon 2BC(86cm to 127cm)

horizon 2Cg(127cm to 200cm)

Silty clay loam

Clay loam

Loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C2A - Tonka silt loam, 0 to 1 percent slopes

Component: Tonka (70%)

The Tonka component makes up 70 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on till plains. The parent material consists of local alluvium over till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during March, April, May. Organic matter content in the surface horizon is about 7 percent. This component is in the R053BY019ND Wet Meadow ecological site. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Rimlap (10%)

Generated brief soil descriptions are created for major soil components. The Rimlap soil is a minor component.

Component: Parnell (6%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Hamerly (5%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Bowbells (5%)

Generated brief soil descriptions are created for major soil components. The Bowbells soil is a minor component.

Component: Vallers (4%)

Generated brief soil descriptions are created for major soil components. The Vallers, moderately saline soil is a minor component.

Map Unit C360B (0.53%)

Map Unit Name: Livona fine sandy loam, 0 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Livona(60%)

horizon Ap(0cm to 22cm)

horizon Bw(22cm to 49cm)

horizon Bt1(49cm to 55cm)

horizon 2Bt2(55cm to 69cm)

horizon 2Bk(69cm to 117cm)

horizon 2BC(117cm to 200cm)

Fine sandy loam

Sandy clay loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C360B - Livona fine sandy loam, 0 to 6 percent slopes

Component: Livona (60%)

The Livona component makes up 60 percent of the map unit. Slopes are 0 to 6 percent. This component is on ground moraines on till plains. The parent material consists of eolian deposits over fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY008ND Sandy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The

calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Parshall (12%)

Generated brief soil descriptions are created for major soil components. The Parshall soil is a minor component.

Component: Flaxton (10%)

Generated brief soil descriptions are created for major soil components. The Flaxton soil is a minor component.

Component: Krem (5%)

Generated brief soil descriptions are created for major soil components. The Krem soil is a minor component.

Component: Williams (5%)

Generated brief soil descriptions are created for major soil components. The Williams soil is a minor component.

Component: Tonka (3%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Noonan (3%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Component: Lehr (2%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Map Unit C370B (0.25%)

Map Unit Name: Krem-Lihen loamy fine sands, 0 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Krem(70%)

horizon Ap(0cm to 17cm)

horizon A(17cm to 51cm)

horizon Bw(51cm to 73cm)

horizon 2Bt(73cm to 100cm)

horizon 2Bk(100cm to 135cm)

horizon 2C(135cm to 200cm)

Loamy fine sand

Loamy fine sand

Clay loam

Clay loam

Clay loam

Lihen(18%)

horizon Ap(0cm to 17cm)

horizon A(17cm to 42cm)

horizon Bw(42cm to 75cm)

horizon C(75cm to 200cm)

Loamy fine sand

Loamy fine sand

Loamy fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C370B - Krem-Lihen loamy fine sands, 0 to 6 percent slopes

Component: Krem (70%)

The Krem component makes up 70 percent of the map unit. Slopes are 0 to 6 percent. This component is on ground moraines on till plains. The parent material consists of eolian sands over fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY007ND Sands ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Lihen (18%)

The Lihen component makes up 18 percent of the map unit. Slopes are 0 to 6 percent. This component is on ground moraines on till plains. The parent material consists of sandy glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY007ND Sands ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Flaxton (4%)

Generated brief soil descriptions are created for major soil components. The Flaxton soil is a minor component.

Component: Parshall (3%)

Generated brief soil descriptions are created for major soil components. The Parshall soil is a minor component.

Component: Arveson (2%)

Generated brief soil descriptions are created for major soil components. The Arveson soil is a minor component.

Component: Williams (2%)

Generated brief soil descriptions are created for major soil components. The Williams soil is a minor component.

Component: Zahl (1%)

Generated brief soil descriptions are created for major soil components. The Zahl soil is a minor component.

Map Unit C3A (0.48%)

Map Unit Name: Parnell silty clay loam, 0 to 1 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 0cm

Drainage Class - Dominant: Very poorly drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high

runoff potential when undrained.

Major components are printed below

Parnell(86%)

horizon A1(0cm to 38cm)

horizon A2(38cm to 56cm)

horizon Btg1(56cm to 81cm)

horizon Btg2(81cm to 140cm)

horizon BCg(140cm to 200cm)

Silty clay loam

Silty clay

Silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C3A - Parnell silty clay loam, 0 to 1 percent slopes

Component: Parnell (86%)

The Parnell component makes up 86 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on till plains. The parent material consists of local alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 8 percent. This component is in the R053BY025ND Shallow Marsh ecological site. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Order No: 23101200256p

Component: Vallers (4%)

Generated brief soil descriptions are created for major soil components. The Vallers soil is a minor component.

Component: Tonka (3%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Southam (3%)

Generated brief soil descriptions are created for major soil components. The Southam soil is a minor component.

Component: Heil (2%)

Generated brief soil descriptions are created for major soil components. The Heil soil is a minor component.

Component: Marysland (2%)

Generated brief soil descriptions are created for major soil components. The Marysland, frequently ponded soil is a minor component.

Map Unit C415A (0.36%)

Map Unit Name: Tansem loam, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Tansem(75%)

horizon Ap(0cm to 19cm)

horizon Bw(19cm to 38cm)

horizon Bk(38cm to 75cm)

horizon C(75cm to 200cm)

Loam

Silt loam

Silt loam

Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C415A - Tansem loam, 0 to 2 percent slopes

Component: Tansem (75%)

The Tansem component makes up 75 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on glacial lakes (relict) on till plains. The parent material consists of loamy glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2c. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 25 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Sakakawea (9%)

Generated brief soil descriptions are created for major soil components. The Sakakawea soil is a minor component.

Component: Roseglen (8%)

Generated brief soil descriptions are created for major soil components. The Roseglen soil is a minor component.

Component: Bearden (3%)

Generated brief soil descriptions are created for major soil components. The Bearden soil is a minor component.

Component: Lehr (2%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Nutley (2%)

Generated brief soil descriptions are created for major soil components. The Nutley soil is a minor component.

Component: Tonka (1%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Map Unit C418B (0.17%)

Map Unit Name: Tansem-Sakakawea loams, 2 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Tansem(70%)

horizon Ap(0cm to 19cm)

horizon Bw(19cm to 38cm)

horizon Bk(38cm to 75cm)

horizon C(75cm to 200cm)

Loam

Silt loam

Silt loam

Sakakawea(15%)

horizon Ap(0cm to 15cm)

horizon Bk(15cm to 67cm)

horizon C1(67cm to 74cm)

horizon C2(74cm to 104cm)

Silty clay loam

Silt loam

Loam

horizon C3(104cm to 200cm) Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C418B - Tansem-Sakakawea loams, 2 to 6 percent slopes

Component: Tansem (70%)

The Tansem component makes up 70 percent of the map unit. Slopes are 2 to 6 percent. This component is on rises on glacial lakes (relict) on till plains. The parent material consists of loamy glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 25 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Sakakawea (15%)

The Sakakawea component makes up 15 percent of the map unit. Slopes are 2 to 6 percent. This component is on rises on glacial lakes (relict) on till plains. The parent material consists of calcareous coarse-silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 25 percent. There are no saline horizons within 30 inches of the soil surface.

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Component: Roseglen (8%)

Generated brief soil descriptions are created for major soil components. The Roseglen soil is a minor component.

Component: Nutley (3%)

Generated brief soil descriptions are created for major soil components. The Nutley soil is a minor component.

Component: Williams (2%)

Generated brief soil descriptions are created for major soil components. The Williams soil is a minor component.

Component: Alkabo (2%)

Generated brief soil descriptions are created for major soil components. The Alkabo soil is a minor component.

Map Unit C424A (0.12%)

Map Unit Name: Minot silty clay, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Minot(65%)

horizon Ap(0cm to 22cm)

horizon Bss(22cm to 49cm)

horizon Bkss(49cm to 85cm)

horizon C(85cm to 200cm)

Silty clay

Silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C424A - Minot silty clay, 0 to 2 percent slopes

Component: Minot (65%)

The Minot component makes up 65 percent of the map unit. Slopes are 0 to 2 percent. This component is on collapsed ice-walled lakebeds on till plains. The parent material consists of clayey glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY001ND Clayey ecological site. Nonirrigated land capability classification is 2s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Wildrose (13%)

Generated brief soil descriptions are created for major soil components. The Wildrose soil is a minor component.

Component: Tansem (11%)

Generated brief soil descriptions are created for major soil components. The Tansem soil is a minor component.

Component: Makoti (5%)

Generated brief soil descriptions are created for major soil components. The Makoti soil is a minor component.

Component: Sakakawea (4%)

Generated brief soil descriptions are created for major soil components. The Sakakawea soil is a minor component.

Component: Tonka (2%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Map Unit C480B (0.19%)

Map Unit Name: Shambo loam, 2 to 6 percent slopes

Bedrock Depth - Min: null Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Shambo(70%)

horizon Ap(0cm to 15cm)

horizon A(15cm to 20cm)

horizon Bw1(20cm to 33cm)

horizon Bw2(33cm to 72cm)

horizon Bk(72cm to 107cm)

horizon BCk(107cm to 122cm)

Loam

horizon C(122cm to 200cm)

Loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C480B - Shambo loam, 2 to 6 percent slopes

Component: Shambo (70%)

The Shambo component makes up 70 percent of the map unit. Slopes are 2 to 6 percent. This component is on terraces on uplands. The parent material consists of local alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Arnegard (13%)

Generated brief soil descriptions are created for major soil components. The Arnegard soil is a minor component.

Component: Stady (8%)

Generated brief soil descriptions are created for major soil components. The Stady soil is a minor component.

Component: Tally (4%)

Generated brief soil descriptions are created for major soil components. The Tally soil is a minor component.

Component: Savage (3%)

Generated brief soil descriptions are created for major soil components. The Savage soil is a minor component.

Component: Lehr (2%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Map Unit C584A (0.06%)

Map Unit Name: Harriet loam, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 23cm

Drainage Class - Dominant: Poorly drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high

runoff potential when undrained.

Major components are printed below

Harriet(76%)

horizon E(0cm to 6cm)
Loam
horizon Btnz1(6cm to 48cm)
Clay loam
horizon Btnz2(48cm to 80cm)
Clay loam
horizon Bknzg(80cm to 97cm)
Clay loam
horizon Cg(97cm to 200cm)
Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C584A - Harriet loam, 0 to 2 percent slopes

Component: Harriet (76%)

The Harriet, occasionally flooded component makes up 76 percent of the map unit. Slopes are 0 to 2 percent. This component is on drainageways on till plains. The parent material consists of local alluvium. Depth to a root restrictive layer, natric, is 1 to 5 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is occasionally flooded. It is rarely ponded. A seasonal zone of water saturation is at 9 inches during March, April, May, June. Organic matter content in the surface horizon is

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about 2 percent. This component is in the R053BY006ND Saline Lowland ecological site. Nonirrigated land capability classification is 6s. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. The soil has a moderately saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 19 within 30 inches of the soil surface.

Component: Ranslo (7%)

Generated brief soil descriptions are created for major soil components. The Ranslo soil is a minor component.

Component: Fluvaquents (5%)

Generated brief soil descriptions are created for major soil components. The Fluvaquents soil is a minor component.

Component: Lowe (5%)

Generated brief soil descriptions are created for major soil components. The Lowe soil is a minor component.

Component: Marysland (3%)

Generated brief soil descriptions are created for major soil components. The Marysland soil is a minor component.

Component: Stirum (2%)

Generated brief soil descriptions are created for major soil components. The Stirum soil is a minor component.

Component: Straw (2%)

Generated brief soil descriptions are created for major soil components. The Straw soil is a minor component.

Map Unit C5A (0.38%)

Map Unit Name: Southam silty clay loam, 0 to 1 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 0cm

Drainage Class - Dominant: Very poorly drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high

runoff potential when undrained.

Major components are printed below

Southam(78%)

horizon A(0cm to 10cm)

horizon Ag1(10cm to 46cm)

horizon Ag2(46cm to 107cm)

Silty clay loam

Silty clay loam

Silty clay

Silty clay

Silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C5A - Southam silty clay loam, 0 to 1 percent slopes

Component: Southam (78%)

The Southam component makes up 78 percent of the map unit. Slopes are 0 to 1 percent. This component is on marshes on till plains. The parent material consists of local alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 10 percent. This component is in the R053BY900ND Not Assigned ecological site. Nonirrigated land capability classification is 8w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent. The soil has a slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

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Component: Parnell (6%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Water (5%)

Generated brief soil descriptions are created for major soil components. The Water soil is a minor component.

Component: Vallers (5%)

Generated brief soil descriptions are created for major soil components. The Vallers soil is a minor component.

Component: Marysland (3%)

Generated brief soil descriptions are created for major soil components. The Marysland soil is a minor component.

Component: Minnewaukan (3%)

Generated brief soil descriptions are created for major soil components. The Minnewaukan soil is a minor component.

Map Unit C800B (3.73%)

Map Unit Name: Appam sandy loam, 2 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat excessively drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Major components are printed below

Appam(81%)

horizon Ap(0cm to 15cm)

horizon Bw(15cm to 38cm)

horizon Bk(38cm to 48cm)

Sandy loam

Sandy loam

horizon 2C(48cm to 200cm) Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C800B - Appam sandy loam, 2 to 6 percent slopes

Component: Appam (81%)

The Appam component makes up 81 percent of the map unit. Slopes are 2 to 6 percent. This component is on rises on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY008ND Sandy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Wabek (7%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Bowdle (4%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Lihen (4%)

Generated brief soil descriptions are created for major soil components. The Lihen soil is a minor component.

Component: Divide (2%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Component: Lehr (1%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Arveson (1%)

Generated brief soil descriptions are created for major soil components. The Arveson soil is a minor component.

Map Unit C810A (0.16%)

Map Unit Name: Bowdle loam, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Bowdle(76%)

horizon Ap(0cm to 20cm)

horizon Bw(20cm to 56cm)

horizon Bk(56cm to 64cm)

Coam

Gravelly loam

horizon 2C1(64cm to 76cm)

Very gravelly loamy coarse sand
horizon 2C2(76cm to 200cm)

Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C810A - Bowdle loam, 0 to 2 percent slopes

Component: Bowdle (76%)

The Bowdle component makes up 76 percent of the map unit. Slopes are 0 to 2 percent. This component is on swales on outwash plains. The parent material consists of loamy alluvium over sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 3s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 20 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Lehr (10%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Wabek (5%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Arnegard (3%)

Generated brief soil descriptions are created for major soil components. The Arnegard soil is a minor component.

Component: Divide (2%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Component: Appam (2%)

Generated brief soil descriptions are created for major soil components. The Appam soil is a minor component.

Component: Ruso (2%)

Generated brief soil descriptions are created for major soil components. The Ruso soil is a minor component.

Map Unit C816B (0.74%)

Map Unit Name: Lehr loam, 2 to 6 percent slopes

Bedrock Depth - Min: null Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat excessively drained

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Lehr(69%)

horizon Ap(0cm to 15cm) Loam

horizon Bw(15cm to 28cm) Loam horizon Bk1(28cm to 38cm) Loam

horizon 2Bk2(38cm to 56cm) Gravelly loamy coarse sand horizon 2C(56cm to 200cm) Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C816B - Lehr loam, 2 to 6 percent slopes

Component: Lehr (69%)

The Lehr component makes up 69 percent of the map unit. Slopes are 2 to 6 percent. This component is on rises on outwash plains. The parent material consists of loamy alluvium over sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY010ND Shallow Gravel ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Wabek (13%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Bowdle (9%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Arnegard (4%)

Generated brief soil descriptions are created for major soil components. The Arnegard soil is a minor component.

Component: Ruso (3%)

Generated brief soil descriptions are created for major soil components. The Ruso soil is a minor component.

Component: Divide (2%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Map Unit C825A (0.22%)

Map Unit Name: Divide loam, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 76cm

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

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Major components are printed below

Divide(65%)

horizon Ap(0cm to 20cm)

horizon Ak(20cm to 30cm)

horizon Bk(30cm to 64cm)

Loam

horizon 2C1(64cm to 76cm) Gravelly loamy coarse sand horizon 2C2(76cm to 200cm) Gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C825A - Divide loam, 0 to 2 percent slopes

Component: Divide (65%)

The Divide component makes up 65 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on outwash plains. The parent material consists of local alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is

somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during April, May, June. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY004ND Limy Subirrigated ecological site. Nonirrigated land capability classification is 2s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 25 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Wyrene (12%)

Generated brief soil descriptions are created for major soil components. The Wyrene soil is a minor component.

Component: Hamerly (6%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Marysland (6%)

Generated brief soil descriptions are created for major soil components. The Marysland soil is a minor component.

Component: Bowdle (5%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Lowe (4%)

Generated brief soil descriptions are created for major soil components. The Lowe soil is a minor component.

Component: Lehr (2%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Map Unit C870E (3.2%)

Map Unit Name: Wabek-Lehr-Appam complex, 9 to 25 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Excessively drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Wabek(50%)

horizon A(0cm to 15cm) Loam

horizon Bk(15cm to 26cm)

horizon C(26cm to 200cm)

Gravelly coarse sandy loam

Very gravelly coarse sand

Lehr(19%)

horizon A(0cm to 15cm)
Loam
horizon Bw(15cm to 28cm)
Loam
horizon Bk1(28cm to 38cm)
Loam

horizon 2Bk2(38cm to 56cm) Gravelly loamy coarse sand horizon 2C(56cm to 200cm) Very gravelly coarse sand

Appam(17%)

horizon A(0cm to 15cm)

Sandy loam

horizon Bw(15cm to 38cm)

Sandy loam

horizon Bk(38cm to 48cm)

Sandy loam

horizon 2C(48cm to 200cm) Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C870E - Wabek-Lehr-Appam complex, 9 to 25 percent slopes

Component: Wabek (50%)

The Wabek component makes up 50 percent of the map unit. Slopes are 9 to 25 percent. This component is on ridges on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is moderately high. Available

water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY017ND Very Shallow ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Lehr (19%)

The Lehr component makes up 19 percent of the map unit. Slopes are 9 to 25 percent. This component is on ridges on outwash plains. The parent material consists of loamy alluvium over sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY010ND Shallow Gravel ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Appam (17%)

The Appam component makes up 17 percent of the map unit. Slopes are 9 to 15 percent. This component is on hills on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY008ND Sandy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowdle (8%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Divide (4%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Component: Parnell (2%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Map Unit C874C (0.86%)

Map Unit Name: Wabek-Appam complex, 6 to 9 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Excessively drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Major components are printed below

Wabek(59%)

horizon A(0cm to 13cm)

Gravelly sandy loam

horizon Bk(13cm to 26cm)

Gravelly coarse sandy loam

horizon C(26cm to 200cm) Very gravelly coarse sand

Appam(25%)

horizon Ap(0cm to 15cm)

Sandy loam
horizon Bw(15cm to 38cm)

Sandy loam
horizon Bk(38cm to 48cm)

Sandy loam

horizon 2C(48cm to 200cm) Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C874C - Wabek-Appam complex, 6 to 9 percent slopes

Component: Wabek (59%)

The Wabek component makes up 59 percent of the map unit. Slopes are 6 to 9 percent. This component is on rises on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY017ND Very Shallow ecological site. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Appam (25%)

The Appam component makes up 25 percent of the map unit. Slopes are 6 to 9 percent. This component is on knolls on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY008ND Sandy ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Lehr (6%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Bowdle (5%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Ruso (2%)

Generated brief soil descriptions are created for major soil components. The Ruso soil is a minor component.

Component: Divide (2%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Component: Marysland (1%)

Generated brief soil descriptions are created for major soil components. The Marysland soil is a minor component.

Map Unit C990F (0.11%)

Map Unit Name: Pits, gravel and sand, 0 to 60 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Excessively drained

Hydrologic Group - Dominant: null

Major components are printed below

Pits(70%)

horizon H1(0cm to 15cm) Extremely gravelly sand horizon H2(15cm to 152cm) Extremely gravelly sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C990F - Pits, gravel and sand, 0 to 60 percent slopes

Component: Pits (70%)

Generated brief soil descriptions are created for major soil components. The Pits, gravel and sand is a miscellaneous area.

Order No: 23101200256p

Component: Wabek (10%)

Generated brief soil descriptions are created for major components. The Wabek soil is a minor component.

Component: Water (5%)

Generated brief soil descriptions are created for major components. The Water soil is a minor component.

Component: Bowdle (5%)

Generated brief soil descriptions are created for major components. The Bowdle soil is a minor component.

Component: Lehr (5%)

Generated brief soil descriptions are created for major components. The Lehr soil is a minor component.

Component: Appam (5%)

Generated brief soil descriptions are created for major components. The Appam soil is a minor component.

Map Unit C996 (3.11%)

Map Unit Name: Water

No more attributes available for this map unit

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C996 - Water

Component: Water (100%)

Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

Map Unit C999F (16.43%)

Map Unit Name: Orthents-Aquents-Urban land, highway complex, 0 to 35 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 30cm

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water

movement through the soil is restricted or very restricted.

Major components are printed below

Orthents(39%)

horizon A(0cm to 10cm)

horizon C(10cm to 152cm)

Loam

Clay loam

Aquents(18%)

horizon H1(0cm to 5cm) Loam horizon H2(5cm to 152cm) Loam

Orthents(17%)

horizon A(0cm to 10cm)
Loam
horizon C(10cm to 152cm)
Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C999F - Orthents-Aquents-Urban land, highway complex, 0 to 35 percent slopes

Component: Orthents (39%)

The Orthents component makes up 39 percent of the map unit. Slopes are 6 to 35 percent. This component is on scalped areas on till plains, cuts (road, railroad, etc.) on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer, densic material, is 4 to 16 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Aquents (18%)

The Aquents component makes up 18 percent of the map unit. Slopes are 0 to 3 percent. This component is on swales on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during March, April, May. Organic matter content in the surface horizon is about 6 percent. This component is in the R053BY999ND Non-site ecological site. Nonirrigated land capability classification is 4w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 30 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Orthents (17%)

The Orthents component makes up 17 percent of the map unit. Slopes are 0 to 6 percent. This component is on scalped areas on till plains, cuts (road, railroad, etc.) on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer, densic material, is 4 to 16 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

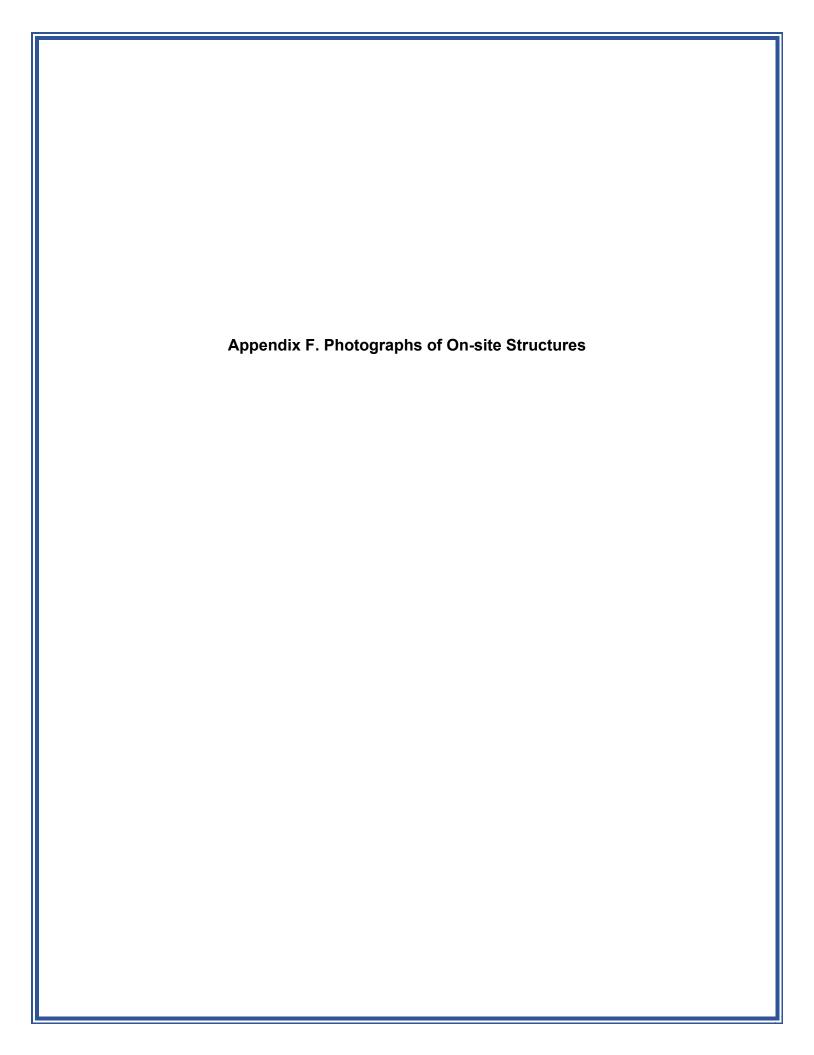
Component: Urban land (17%)

Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

Component: Haplustolls (9%)

Generated brief soil descriptions are created for major components. The Haplustolls soil is a minor component.

Order No: 23101200256p



















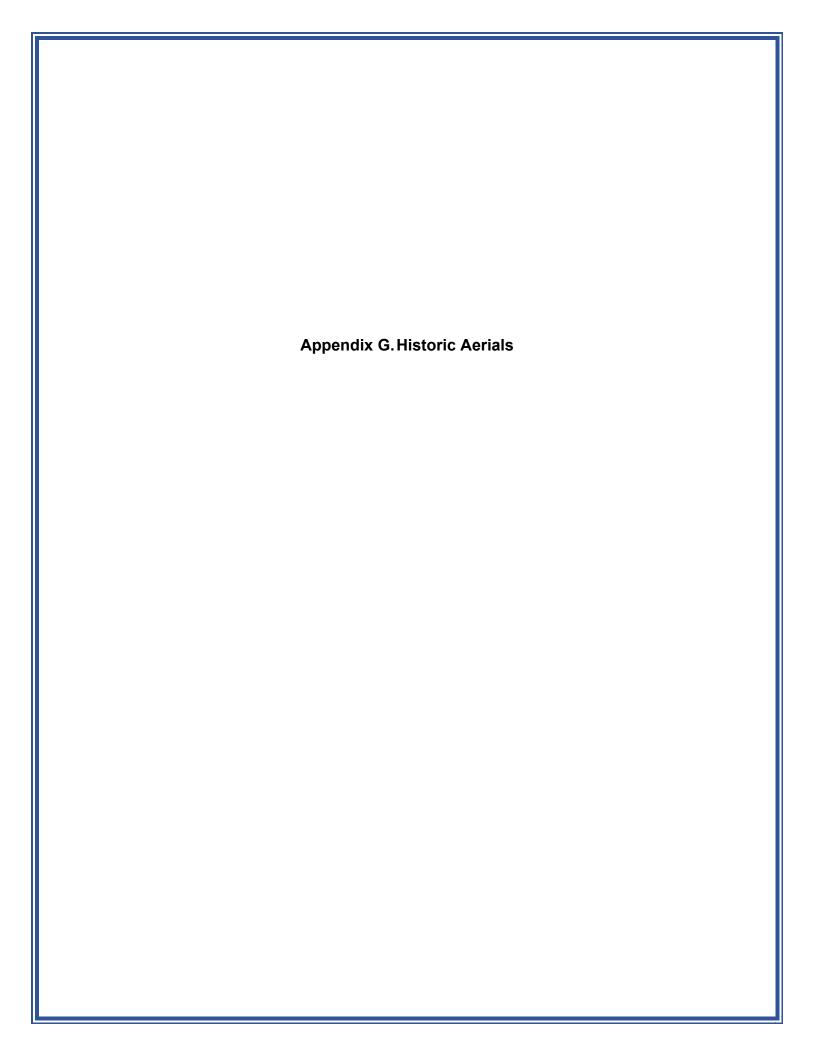














Project Property: Stanley Municipal Airport

Stanley Municipal Airport

Stanley ND

Project No: 4545300-230576.01

Requested By: Mead & Hunt, Inc.

Order No: 23101200256

Date Completed: October 16,2023

Aerial Maps included in this report are produced by the sources listed above and are to be used for research purposes including a phase I report. Maps are not to be resold as commercial property. ERIS provides no warranty of accuracy or liability. The information contained in this report has been produced using aerial photos listed in above sources by ERIS Information Inc. (in the US) and ERIS Information Limited Partnership (in Canada), both doing business as 'ERIS'. The maps contained in this report do not purport to be and do not constitute a guarantee of the accuracy of the information contained herein. Although ERIS has endeavored to present information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Environmental Risk Information Services

Date	Source	Scale	Comments
2021	MAXAR TECHNOLOGIES	1" = 800'	
2020	United States Department of Agriculture	1" = 800'	
2019	United States Department of Agriculture	1" = 800'	
2018	United States Department of Agriculture	1" = 800'	
2017	United States Department of Agriculture	1" = 800'	
2016	United States Department of Agriculture	1" = 800'	
2015	United States Department of Agriculture	1" = 800'	
2014	United States Department of Agriculture	1" = 800'	
2012	United States Department of Agriculture	1" = 800'	
2010	United States Department of Agriculture	1" = 800'	
2009	United States Department of Agriculture	1" = 800'	
2006	United States Department of Agriculture	1" = 800'	
2005	United States Department of Agriculture	1" = 800'	
2004	United States Department of Agriculture	1" = 800'	
2003	United States Department of Agriculture	1" = 800'	
1997	United States Geological Survey	1" = 800'	
1991	United States Geological Survey	1" = 800'	Best Copy Available
1984	United States Geological Survey	1" = 800'	
1974	United States Geological Survey	1" = 800'	Best Copy Available
1967	United States Geological Survey	1" = 800'	
1958	Agricultural Stabilization & Conserv. Service	1" = 800'	
1938	Agricultural Stabilization & Conserv. Service	1" = 800'	Photo Index-Best Available



Year: 2021 Source: MAXAR Scale: 1" = 800'

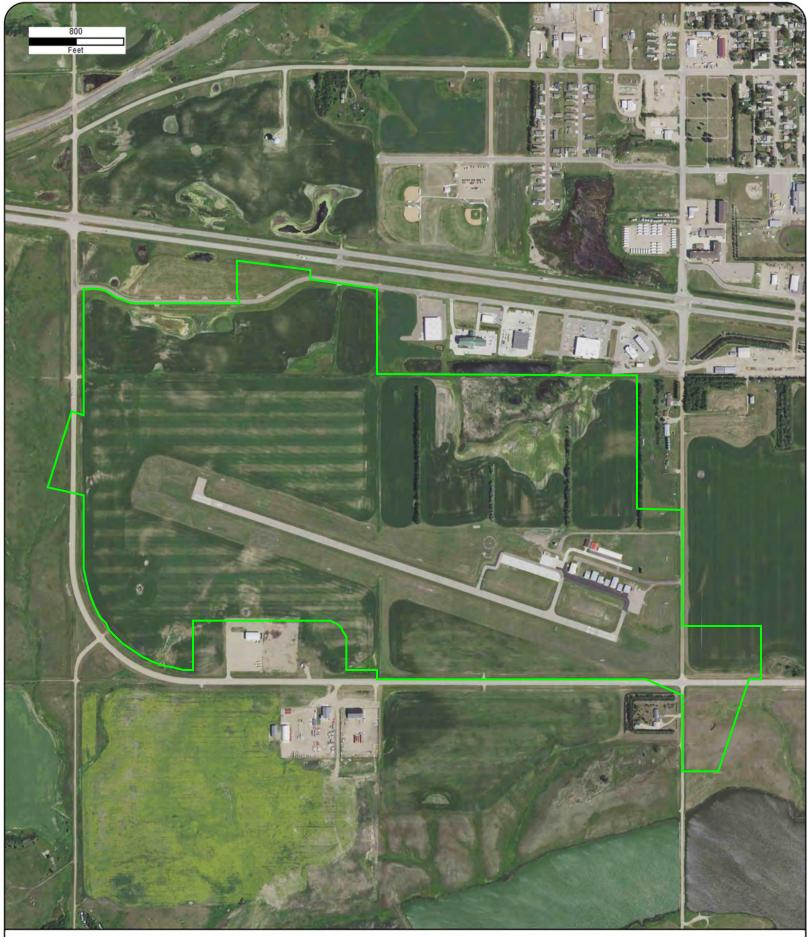
Comment:

Address: Stanley Municipal Airport, Stanley, ND Approx Center: -102.40766666,48.3023571









Year: 2020 Source: USDA Scale: 1" = 800'

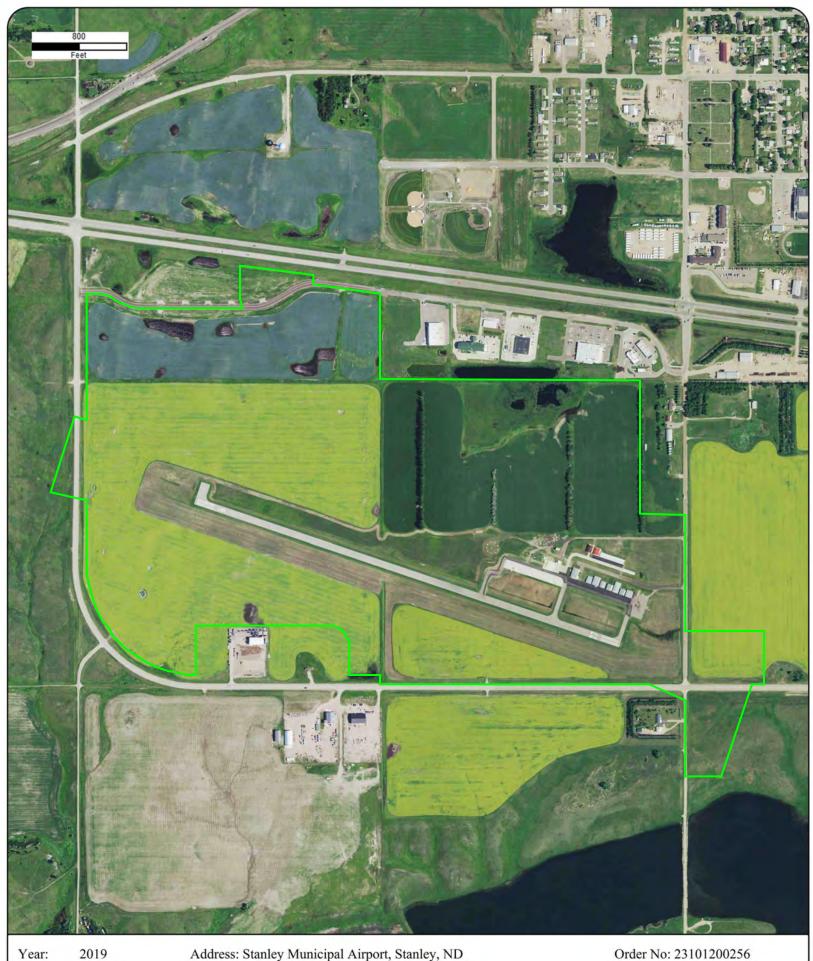
Comment:

Address: Stanley Municipal Airport, Stanley, ND Approx Center: -102.40766666,48.3023571









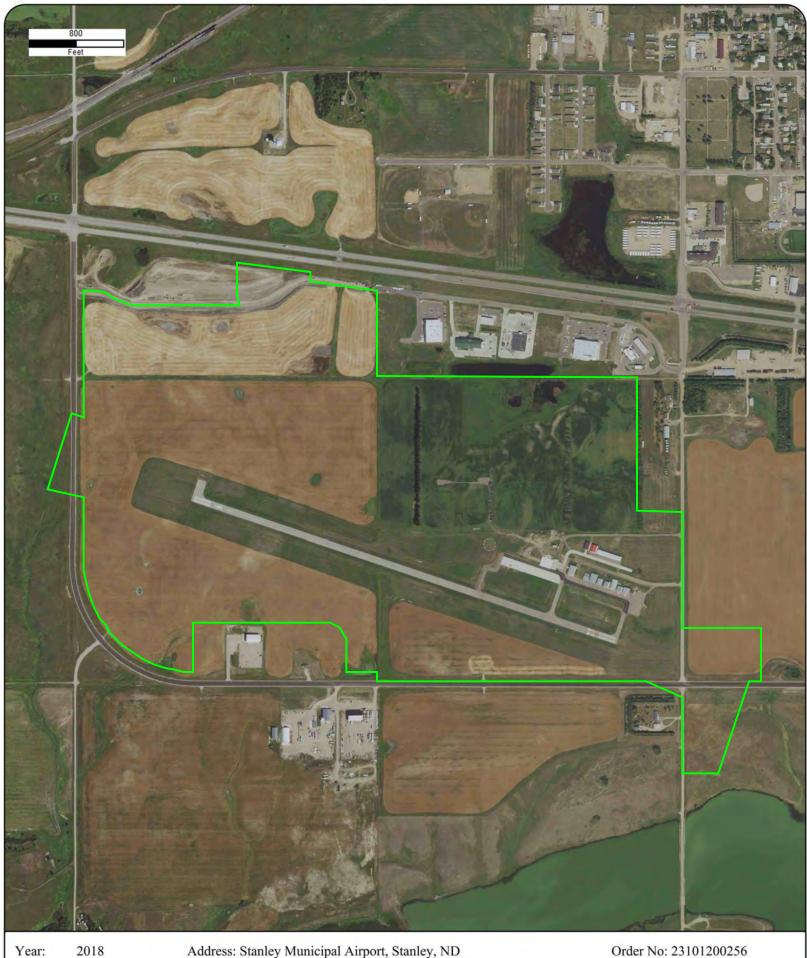
Comment:

Address: Stanley Municipal Airport, Stanley, ND









Comment:

Address: Stanley Municipal Airport, Stanley, ND









Year: 2017 Source: USDA Scale: 1" = 800'

Comment:

Address: Stanley Municipal Airport, Stanley, ND Approx Center: -102.40766666,48.3023571









Comment:

Address: Stanley Municipal Airport, Stanley, ND

Approx Center: -102.40766666,48.3023571









Comment:

Address: Stanley Municipal Airport, Stanley, ND









Comment:

Address: Stanley Municipal Airport, Stanley, ND









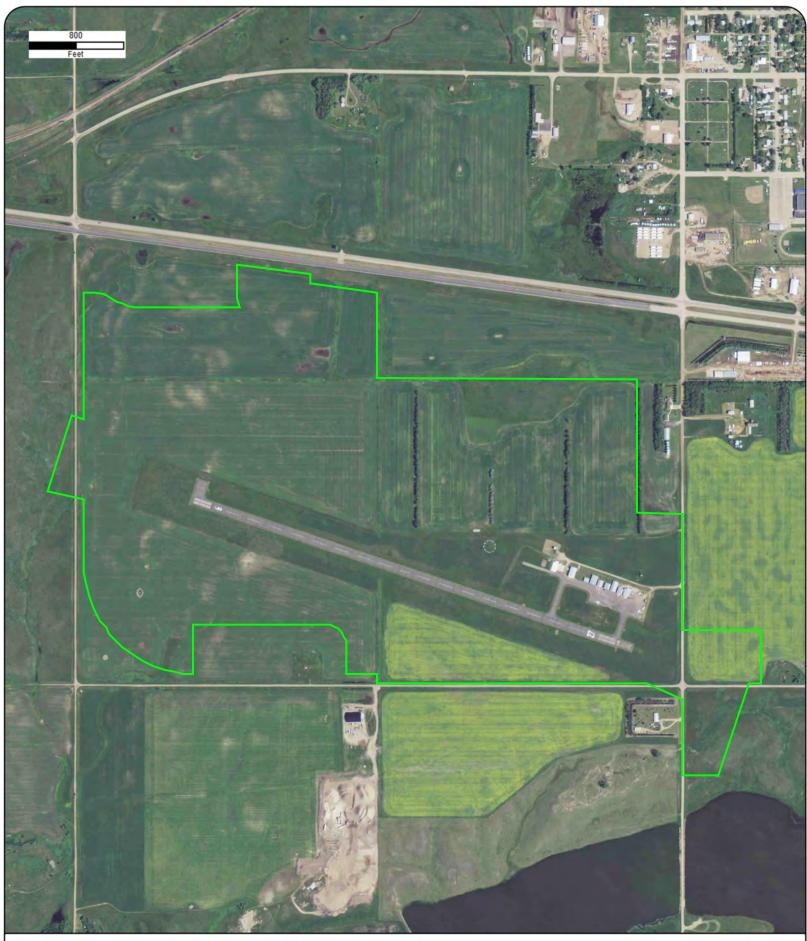
Comment:

Address: Stanley Municipal Airport, Stanley, ND









Year: 2010 Source: USDA Scale: 1" = 800'

Comment:

Address: Stanley Municipal Airport, Stanley, ND

Approx Center: -102.40766666,48.3023571









Year: 2009 Source: **USDA** Scale: 1" = 800'

Comment:

Address: Stanley Municipal Airport, Stanley, ND









2006 Year: Source: **USDA** Scale: 1'' = 800'

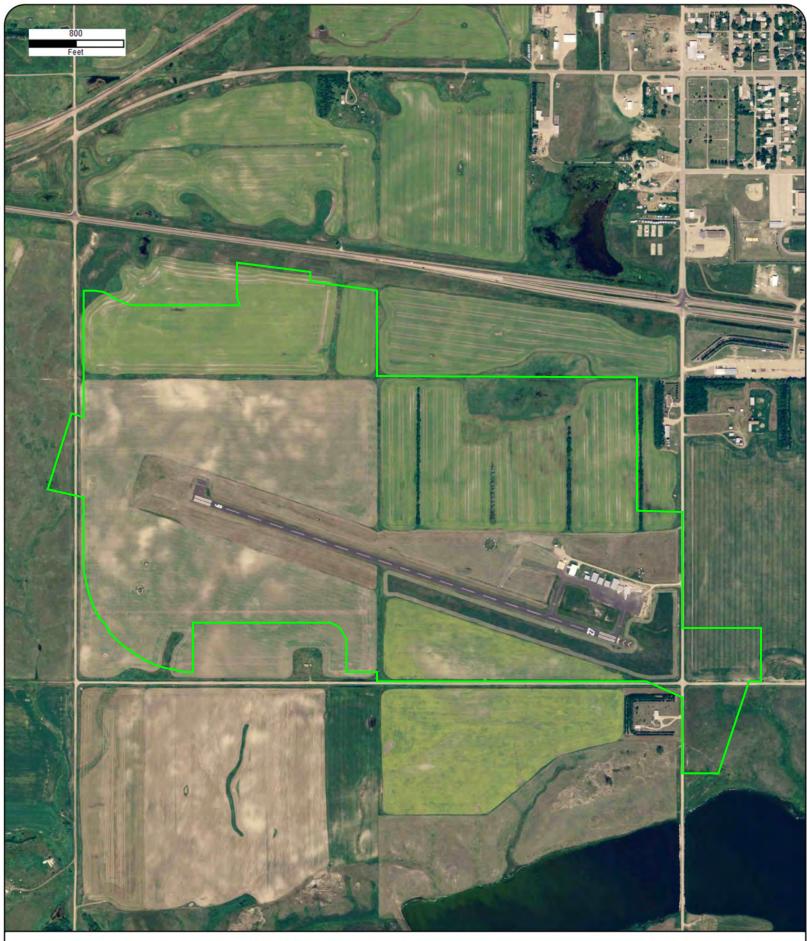
Comment:

Address: Stanley Municipal Airport, Stanley, ND









Year: 2005 Source: USDA Scale: 1" = 800'

Comment:

Address: Stanley Municipal Airport, Stanley, ND Approx Center: -102.40766666,48.3023571









Year: 2004 Source: **USDA** Scale: 1'' = 800'

Comment:

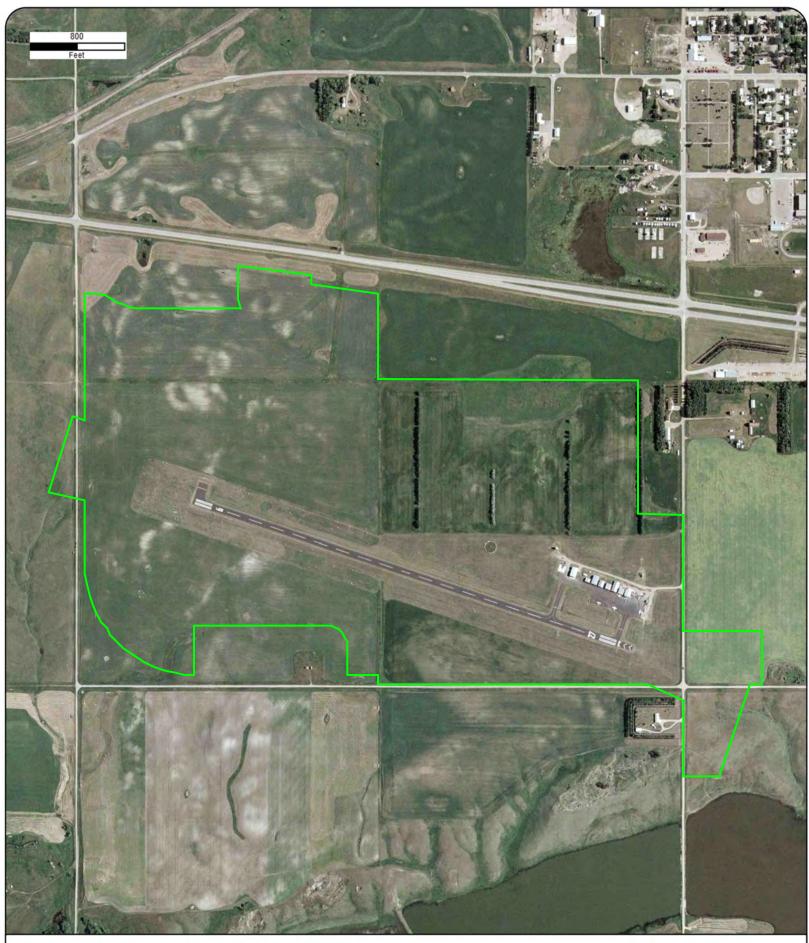
Address: Stanley Municipal Airport, Stanley, ND

Approx Center: -102.40766666,48.3023571









Year: 2003 Source: **USDA** Scale: 1" = 800'

Comment:

Address: Stanley Municipal Airport, Stanley, ND

Approx Center: -102.40766666,48.3023571









1997 Year: Source: **USGS** Scale: 1'' = 800'

Comment:

Address: Stanley Municipal Airport, Stanley, ND









Source: **USGS** Scale: 1'' = 800' Address: Stanley Municipal Airport, Stanley, ND

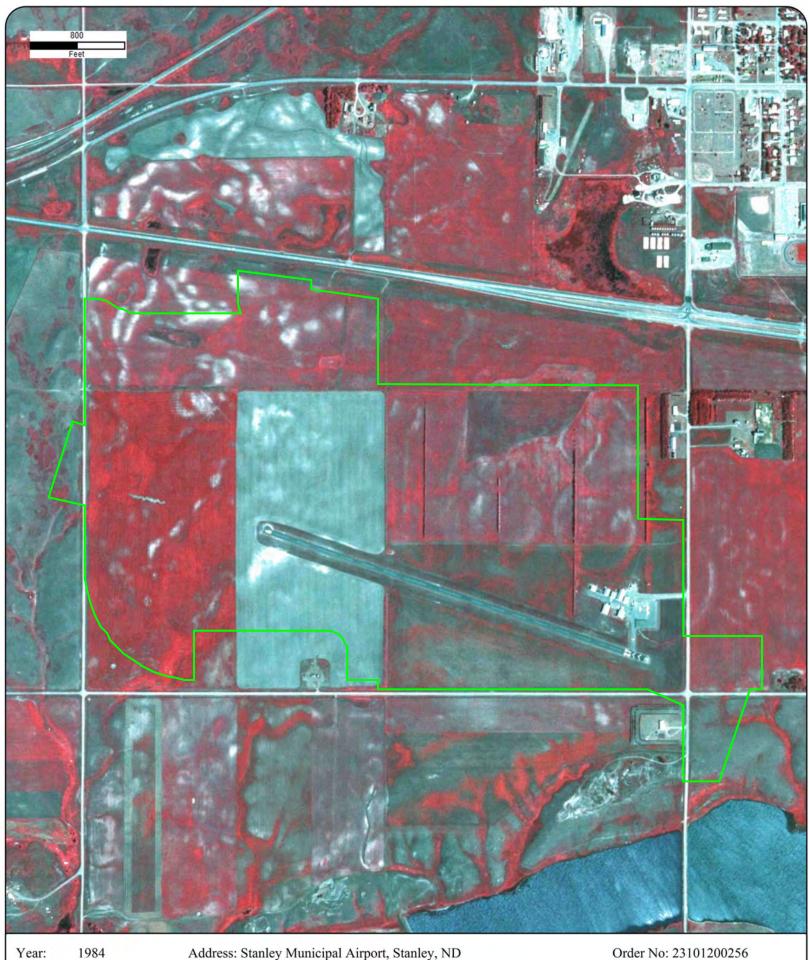
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Comment: Best Copy Available









Comment:

Address: Stanley Municipal Airport, Stanley, ND





1974 Year: Source: **USGS** Scale: 1'' = 800' Address: Stanley Municipal Airport, Stanley, ND

Approx Center: -102.40766666,48.3023571

Comment: Best Copy Available







Year: 1967 Source: USGS Scale: 1" = 800'

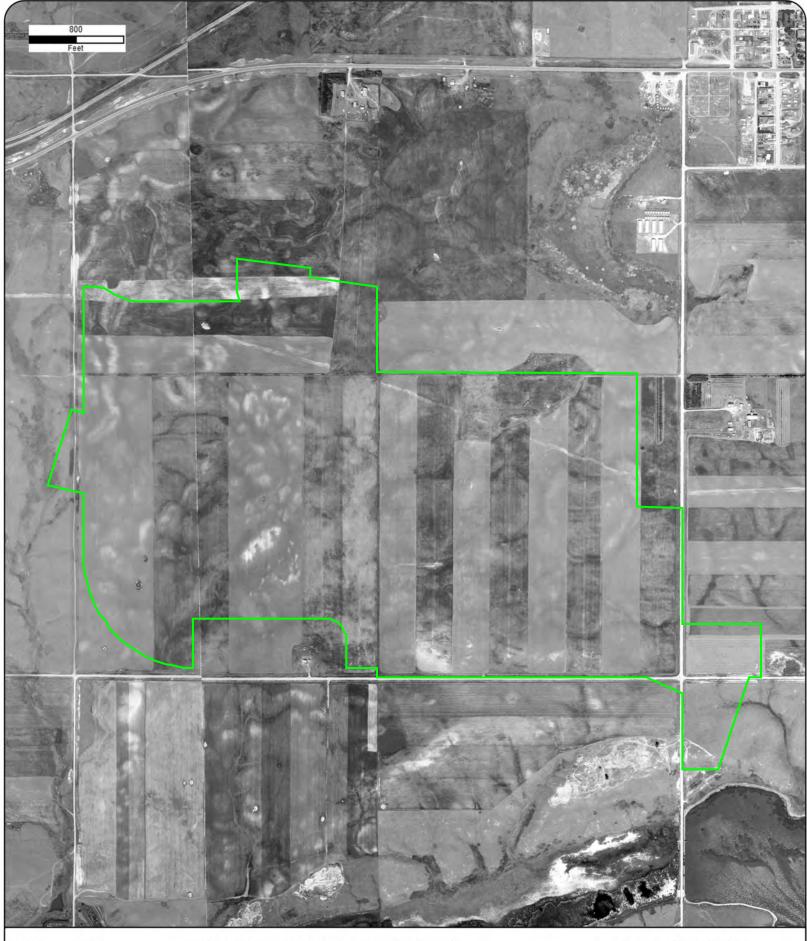
Comment:

Address: Stanley Municipal Airport, Stanley, ND Approx Center: -102.40766666,48.3023571









1958 Year: Source: ASCS Scale: 1'' = 800'

Comment:

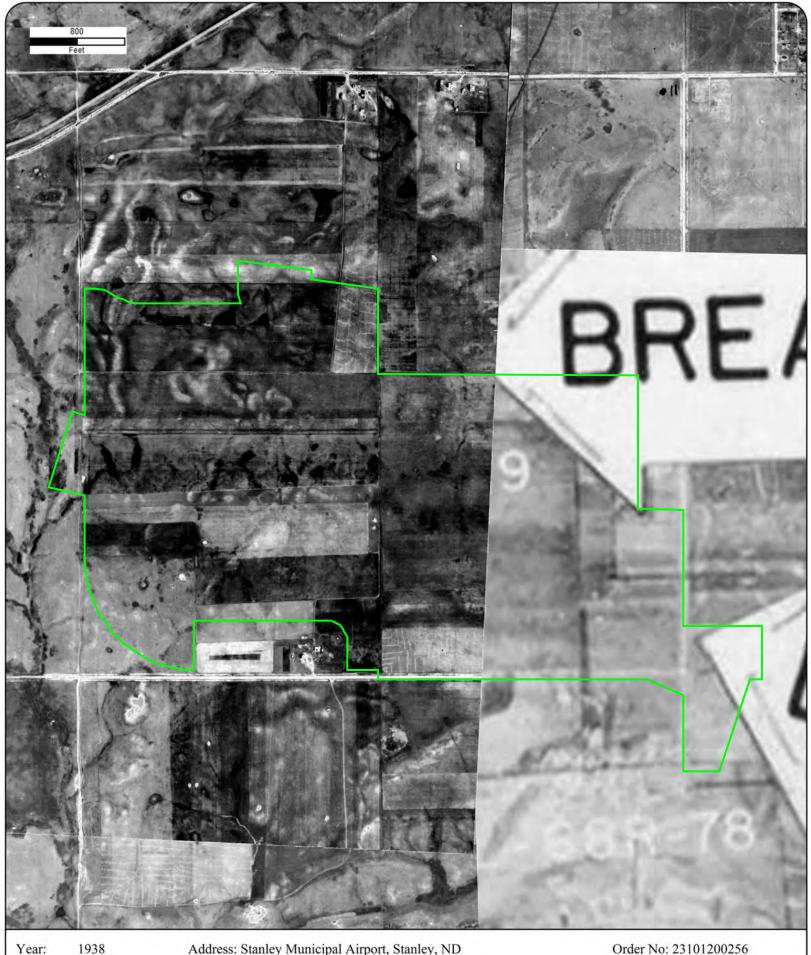
Address: Stanley Municipal Airport, Stanley, ND

Approx Center: -102.40766666,48.3023571









Year: 1938 **ASCS** Source: 1'' = 800'Scale:

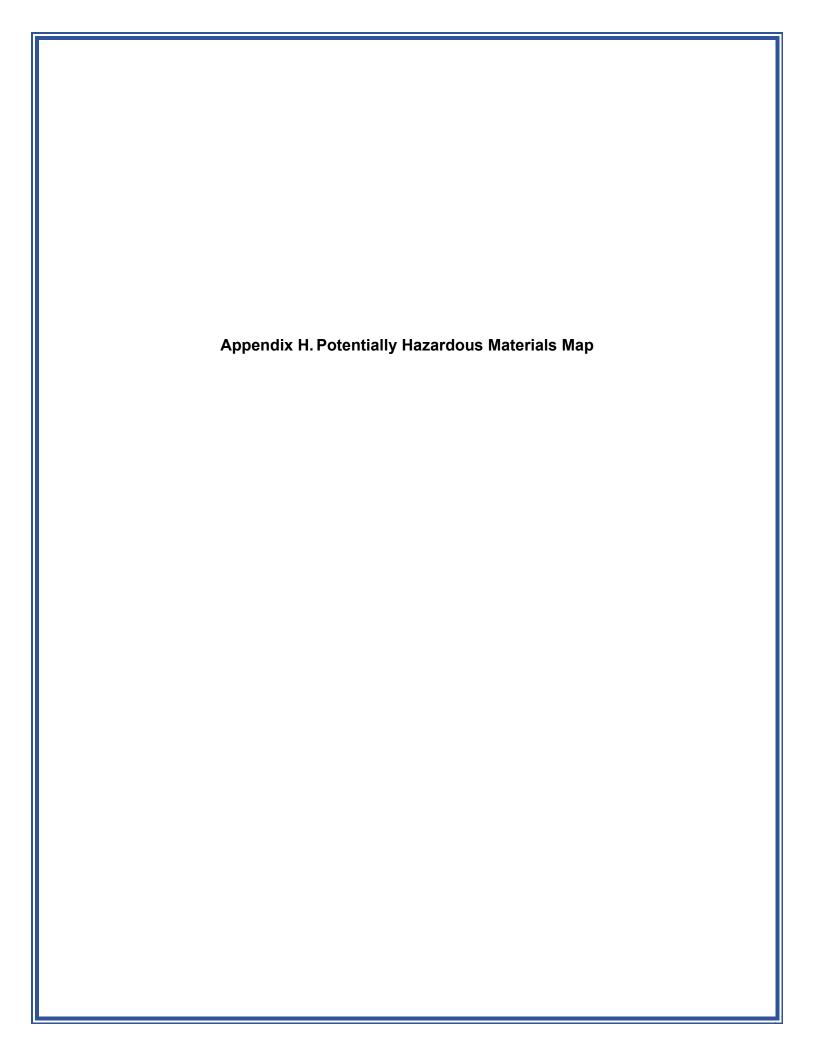
Address: Stanley Municipal Airport, Stanley, ND

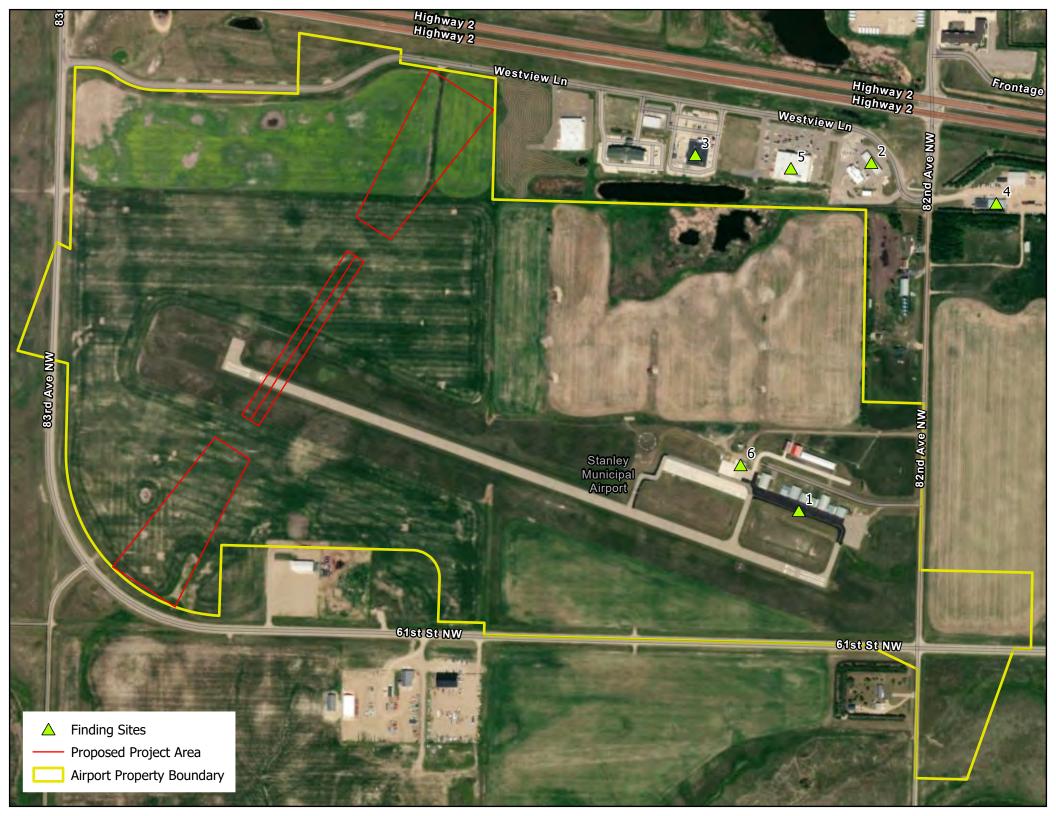
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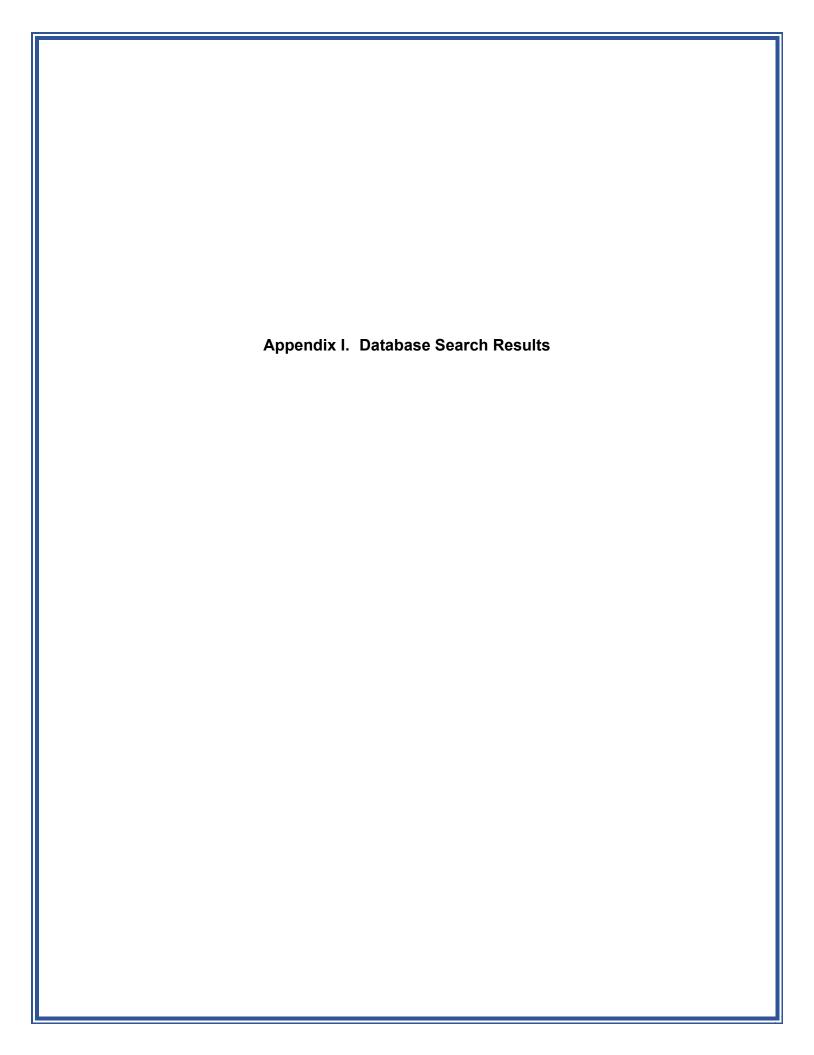
Comment: Photo Index-Best Available











North Dakota Department of Environmental Quality - Leaking Underground Storage Tank Registry

						Facility Addre	ss				
Fac	ility ID Owner Name	Owner Address	Owner City State Zip	Facility Name	Facility Address	2	Facility City State Zip	Facility County	Alternate ID	Lust Status	Lust Status Date
	381 United Quality Cooperative	po box 340	New Town ND 58763-	United Prairie Cooperative C Store	712 N 1st St	Box 340	New Town ND 58763-	Mountrail	381	Site Cleanup Completed	5/8/1996
	5384 Stanley Airport Authority	PO Box 328	Stanley ND 58784	Stanley Airport	PO Box 489		Stanley ND 58784	Mountrail	5384	Site Cleanup Completed	10/22/1991
	5259 Stanley Airport Authority	Box 328	Stanley ND 58784	Stanley Airport Authority	PO Box 328		Stanley ND 58784	Mountrail	5259	Site Cleanup Completed	10/22/1991
	6309 John J Boyd Jr	PO Box 627	Stanley ND 58784	Judds Standard	4th Str and 6th Ave SE	PO Box 627	Stanley ND 58784	Mountrail	6309	Site Cleanup Completed	5/13/1997
	1821 Charles Foote	16 East Central Avenue	Parshall ND 58770	Chucks Conoco	16 East Central Avenue	PO Box 535	Parshall ND 58770	Mountrail	1821	Site Cleanup Completed	7/21/2007
	2835 Kum and Go LLC	1459 Grand Avenue	Des Moines IA 50309-	Kum and Go Store 810	242 Main Street		New Town ND 58763	Mountrail	2835	Site Cleanup Completed	2/28/2003
	1307 Gordon S Patten	Box 775	Stanley ND 58784	Grandma Ruby's	Hwy 2		Stanley ND 58784	Mountrail	1307-1	Site Cleanup Completed	6/24/1999
	2912 Fort Berhold Development Corp	PO Box 867	New Town ND 58763	West Dakota Service	211 W Main St	PO Box 867	New Town ND 58763	Mountrail	2912f-1	Site Cleanup Completed	5/21/2012
	3621 Farmers Union Oil Company	PO Box 158	Plaza ND 58771-	Farmers Union Oil Company	102 Main Street	Box 158	Plaza ND 58771	Mountrail	3621-1	Site Cleanup Completed	8/1/2014
	1250 Colorodo Tubulars - Aztec Pipe (CTAP)	Box 145	Ross ND 58776-	CTAP	300 E Central Ave	PO Box 145	Ross ND 58776-	Mountrail	1250	Site Cleanup Completed	2/5/1999
	486 United Quality Cooperative	po box 340	New Town ND 58763-	United Prairie Cooperative	241 W Main St	Box 340	New Town ND 58763-	Mountrail	486	CleanUp Continuing	11/13/2017
	14 Mountrail Flectric Coop Inc	242 S Main Street	Stanley ND 58784	Mountrail Flectric Coop Inc	242 South Main Street		Stanley ND 58784	Mountrail	14-1	Site Investigation Completed	2/10/2022

Combined Environmental Reporting Information System (CERIS-ND)

SiteID	SITE_NUM	SITE_NAME
-1.27093E+	18 CCWS-7ZTH-0K6	NDPC, LLC - Stanley Terminal
-1.27093E+	18 CCWS-7ZTH-0K6	NDPC, LLC - Stanley Terminal
-1.27093E+	18 CCWS-7ZTH-0K6	NDPC, LLC - Stanley Terminal
-1.27093E+	18 CCWS-7ZTH-0K6	NDPC, LLC - Stanley Terminal
-1.27093E+	18 CCWS-7ZTH-0K6	NDPC, LLC - Stanley Terminal
-1.27093E+	18 CCWS-7ZTH-0K6	NDPC, LLC - Stanley Terminal
-1.27093E+	18 CCWS-7ZTH-0K6	NDPC, LLC - Stanley Terminal
-2.55553E+	18 3HFF-VXRB-6V3	HESS BAKKEN INVESTMENTS II, LLC - RS-NELSON FARMS 1-24H
-3.27705E+	18 9N4X-5YR6-8NJ	Plains Pipeline, L.P Stanley Station
-3.27705E+	18 9N4X-5YR6-8NJ	Plains Pipeline, L.P Stanley Station
-3.27705E+	18 9N4X-5YR6-8NJ	Plains Pipeline, L.P Stanley Station
-3.66489E+	17 3DF8-M3RY-8CS	Plains Marketing, L.P Stanley Metering Station
-3.66489E+	17 3DF8-M3RY-8CS	Plains Marketing, L.P Stanley Metering Station
-3.66489E+	17 3DF8-M3RY-8CS	Plains Marketing, L.P Stanley Metering Station
-3.69472E+	18 TGZ8-FNET-S8K	HESS BAKKEN INVESTMENTS II, LLC - RS-Bean PAD
-5.31235E+	18 Z21V-FB75-B2F	HESS BAKKEN INVESTMENTS II, LLC - RS-THOMPSON-155-92-0112H-1
-5.87162E+	18 2RQ9-TDZR-6MP	HESS BAKKEN INVESTMENTS II, LLC - RS-ENANDER A-155-91-0607H-1
-6.05082E+	18 N2ME-ONTG-V0X	HESS BAKKEN INVESTMENTS II, LLC - STANLEY 28-21-145-91H
-7.41343E+	18 VJNK-GMVZ-HGV	HESS BAKKEN INVESTMENTS II, LLC - RS-NELSON FARMS 11-19H
-8.86531E+	18 3PGQ-GHD3-KZJ	HESS BAKKEN INVESTMENTS II, LLC - RS-AGRIBANK-156-91-3427H-1
3.18692E+	17 TAGY-RP5F-YBR	Targa Badlands LLC - Stanley Crude Oil Terminal
3.18692E+	17 TAGY-RP5F-YBR	Targa Badlands LLC - Stanley Crude Oil Terminal
3.99943E+	18 EEFR-6FX7-QVT	HESS BAKKEN INVESTMENTS II, LLC - RS-BECKER-156-92-3526H-1
4.67734E+	18 XFT7-F8JE-2M3	CONTINENTAL RESOURCES, INC JEAN NELSON 1-35H
5.01608E+	17 37BN-3WB4-9S6	Dakota Access, LLC - Stanley Station
5.01608E+	17 37BN-3WB4-9S6	Dakota Access, LLC - Stanley Station
6.47821E+	18 Y12M-V452-AZT	HESS BAKKEN INVESTMENTS II, LLC - RS-STATE-156-92-3625H-1
6.8785E+	18 B3NY-Y6J6-0TZ	Plains Pipeline, L.P Nelson Junction
6.93012E+	18 KM9T-YFQP-NJ5	Bechtold Paving, Inc Portable Plant P-2
7.45198E+	18 9JG6-RB6W-TZT	Bridger Pipeline LLC - Stanley Station
7.45198E+	18 9JG6-RB6W-TZT	Bridger Pipeline LLC - Stanley Station
7.45198E+	18 9JG6-RB6W-TZT	Bridger Pipeline LLC - Stanley Station
7.74765E+	18 XVAE-RQDD-E7B	INACTIVE Dakota Quality Grain Cooperative - Dakota Quality Grain Cooperative - Stanley
7.96892E+	18 AV31-94XT-ZV0	HESS BAKKEN INVESTMENTS II, LLC - RS-LOIS ENANDER-156-91-3130H-1

ADDRESS_1	CITY	ZIP	PROGRAM_ID	START_DATE_DESC	START_DATE
6150 Highway 8	Stanley	58784	ACP-17261	Effective	5/5/2010 0:00
6150 Highway 8	Stanley	58784	ACP-17336	Effective	4/26/2011 0:00
6150 Highway 8	Stanley	58784	ACP-17603	Effective	2/25/2014 0:00
6150 Highway 8	Stanley	58784	ACP-17941	Effective	11/15/2019 0:00
6150 Highway 8	Stanley	58784	AOP-28127	Effective	1/17/2023 0:00
6150 Highway 8	Stanley	58784	HPB-K33T-920BH	Received	9/8/2021 15:42
6150 Highway 8	Stanley	58784	HPQ-V237-HMR0G	Received	1/20/2023 12:05
			OGR-12072	Effective	11/30/2020 0:00
NW1/4 NW1/4 T156N R91W Sec 27	Stanley	58784	ACP-17239	Effective	
NW1/4 NW1/4 T156N R91W Sec 27	Stanley	58784	ACP-17353	Effective	6/14/2011 0:00
NW1/4 NW1/4 T156N R91W Sec 27	Stanley	58784	AOP-28212	Effective	7/9/2020 0:00
6132 Highway 8	Stanley	58784	ACP-17218	Effective	6/25/2009 0:00
6132 Highway 8	Stanley	58784	ACP-17264	Effective	5/27/2010 0:00
6132 Highway 8	Stanley	58784	ACP-17314	Effective	2/9/2011 0:00
			OGR-13472	Effective	11/30/2020 0:00
			OGR-13166	Effective	11/30/2020 0:00
			OGR-13564	Effective	11/30/2020 0:00
			OGR-15954	Effective	11/30/2020 0:00
			OGR-12340	Effective	11/30/2020 0:00
			OGR-12878	Effective	11/30/2020 0:00
NE 1/4, SW 1/4, Sec. 27, T156N, R91W	Stanley	0	ACP-17567	Effective	9/25/2013 0:00
NE 1/4, SW 1/4, Sec. 27, T156N, R91W	Stanley	0	AOP-27978	Effective	11/12/2019 0:00
			OGR-12895	Effective	11/30/2020 0:00
			OGR-12514	Effective	11/30/2020 0:00
6140 85th Avenue NW	Stanley	58784	ACP-17740	Effective	8/12/2015 0:00
6140 85th Avenue NW	Stanley	58784	AOP-28023	Effective	9/1/2022 0:00
			OGR-12607	Effective	11/30/2020 0:00
	Stanley	58784	ACP-17792	Effective	6/14/2016 0:00
		0	AOP-27099	Effective	1/26/2022 0:00
SW ¼, NW ¼, Sec. 27, T156N, R91W	Stanley	58784	ACP-17141	Effective	9/28/2007 0:00
SW ¼, NW ¼, Sec. 27, T156N, R91W	Stanley	58784	ACP-17269	Effective	6/17/2010 0:00
SW ¼, NW ¼, Sec. 27, T156N, R91W	Stanley	58784	AOP-27882	Effective	6/20/2023 0:00
PO Box 339	Stanley	58784	AOP-27423	Effective	1/17/2008 0:00
			OGR-13410	Effective	11/30/2020 0:00

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Expiration / Termination		-1.27093E+18		AIRPTC	ACP-17261
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Expiration / Termination		-1.27093E+18		AIRPTC	ACP-17603
Expiration / Termination		-1.27093E+18		AIRPTC	ACP-17941
Expiration / Termination		-1.27093E+18	7/10/2024 0:00	AIRPTOMIN	AOP-28127
		-1.27093E+18		REQST	HPB-K33T-920BH
		-1.27093E+18		REQST	HPQ-V237-HMR0G
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Expiration / Termination		-3.27705E+18		AIRPTC	ACP-17239
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Expiration / Termination		-3.69472E+18		AIROG	OGR-13472
Expiration / Termination		-5.31235E+18		AIROG	OGR-13166
Expiration / Termination		-5.87162E+18		AIROG	OGR-13564
Expiration / Termination		-6.05082E+18		AIROG	OGR-15954
Expiration / Termination		-7.41343E+18		AIROG	OGR-12340
Expiration / Termination		-8.86531E+18		AIROG	OGR-12878
Expiration / Termination		3.18692E+17		AIRPTC	ACP-17567
Expiration / Termination		3.18692E+17	11/24/2024 0:00	AIRPTOMIN	AOP-27978
Expiration / Termination		3.99943E+18		AIROG	OGR-12895
Expiration / Termination		4.67734E+18		AIROG	OGR-12514
Expiration / Termination		5.01608E+17		AIRPTC	ACP-17740
Expiration / Termination		5.01608E+17	9/1/2027 0:00	AIRPTOMIN	AOP-28023
Expiration / Termination		6.47821E+18		AIROG	OGR-12607
Expiration / Termination		6.8785E+18		AIRPTC	ACP-17792
Expiration / Termination		6.93012E+18	1/15/2027 0:00	AIRPTOMIN	AOP-27099
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Expiration / Termination		7.45198E+18		AIRPTC	ACP-17269
Expiration / Termination		7.45198E+18	7/31/2028 0:00	AIRPTOMIN	AOP-27882
Expiration / Termination		7.74765E+18	1/17/2013 0:00	AIRPTOGEN	AOP-27423
Expiration / Termination		7.96892E+18		AIROG	OGR-13410

TYPE DESC LONG

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Permit Number: ACP-17261 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: In Effect
Permit Number: ACP-17336 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor, Status: In Effect
Permit Number: ACP-17603 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: Terminated
Permit Number: ACP-17941 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: In Effect
Permit Number: AOP-28127 v4. 1. Category: Air Permit to Operate - Minor. Type: Operating Permit - Minor. Status: In Effect
Air General Notification (for Non-Permitted/Non-Registered OG Sites); Status: Completed
AQ Permit [w/o app] (Internal); Status: Completed
Permit Number: OGR-12072 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: ACP-17239 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: In Effect
Permit Number: ACP-17353 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: In Effect
Permit Number: AOP-28212 v3. 0. Category: Air Permit to Operate - Minor. Type: Operating Permit - Minor. Status: In Effect
Permit Number: ACP-17218 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: Terminated
Permit Number: ACP-17264 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: Terminated
Permit Number: ACP-17314 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: Terminated
Permit Number: OGR-13472 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: OGR-13166 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: OGR-13564 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: OGR-15954 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: OGR-12340 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: OGR-12878 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: ACP-17567 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: In Effect
Permit Number: AOP-27978 v2. 0. Category: Air Permit to Operate - Minor. Type: Operating Permit - Minor. Status: In Effect
Permit Number: OGR-12895 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: OGR-12514 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: ACP-17740 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: In Effect
Permit Number: AOP-28023 v2. 0. Category: Air Permit to Operate - Minor. Type: Operating Permit - Minor. Status: In Effect
Permit Number: OGR-12607 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect
Permit Number: ACP-17792 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: Terminated
Permit Number: AOP-27099 v5. 0. Category: Air Permit to Operate - Minor. Type: Operating Permit - Minor. Status: In Effect
Permit Number: ACP-17141 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor, Status: In Effect
Permit Number: ACP-17269 v1. 0. Category: Air Permit to Construct. Type: Construction Permit - Minor. Status: In Effect
Permit Number: AOP-27882 v4. 0. Category: Air Permit to Operate - Minor. Type: Operating Permit - Minor. Status: In Effect
Permit Number: AOP-27423 v2. 0. Category: Air Permit to Operate - General, Type: Operating Permit - General, Status: Terminated
```

Permit Number: OGR-13410 v1. 0. Category: Air Oil and Gas Facility Registration. Type: Oil and Gas Production Facility (Minor). Status: In Effect

Envirofacts, U.S. Environmental Protection Agency

FACILITY INFORMATION	ADDRESS
ANDEAVOR FIELD SERVICES LLC - STANLEY COMPRESSOR STATION	NENE SEC 14, T155N, R91W, STANLEY, ND 58784
ARSENAL ANTHONY ROBERT & WADE MORRIS	48.25571,-102.35941, STANLEY, ND 58784
ATHENA 2 2011 8 F 20TELL	48.19740, -102.45554, STANLEY, ND 58784
ATHENA 2 2011 8 6 20TELL	48.19751, -102.44316, STANLEY, ND 58784
ATHENA 3-36H & 6-36TFH	48.19822, -102.44823, STANLEY, ND 58784
ATHENA 4-36TFH	48.19763, -102.45853, STANLEY, ND 58784
BISON MIDSTREAM, LLC-MIRAGE COMPRESSOR STATION BISON MIDSTREAM, LLC-WEST COMPRESSOR STATION	8591 COUNTY RD 11, STANLEY, ND 58784 SW ¼, SE ¼, SEC. 6, T157N, R90W, STANLEY, ND 58784
•	
BRIDGER PIPELINE LLC-EHLERT STATION BRIDGER PIPELINE LLC-STANLEY STATION	NW ¼, NW ¼, SEC. 35, T153N, R90W, STANLEY, ND 58784
CASH WISE FOODS - STANLEY 3047	T156N, R91W, SEC 27, STANLEY, ND 58784 406 WESTVIEW LN, STANLEY, ND 58784
COTTONWOOD 2-35H	
	48.37340, -102.51830, STANLEY, ND 58784
DAKOTA ACCESS, LLC-STANLEY STATION ENBRIDGE OPERATING SERVICES, L.L.C. (ENBRIDGE)-STANLEY STATION	SEC. 25, T156N, R92W, STANLEY, ND 58784
EOG RESOURCES - HAWKEYE 100-2501H AND 2-2501H	T156 R91 SCT27, STANLEY, ND 58784
EOG RESOURCES RAILYARD	6201 81ST AVE, STANLEY, ND 58784
EOG RESOURCES RAILYARD EOG RESOURCES RAILYARD	STANLEY, STANLEY, ND 58784
	7988 63RD AVENUE NW, STANLEY, ND 58784
EQUINOR PIPELINES LLC-ROSS OIL FACILITY FORMER STANLEY PIPELINE STATION	SEC. 31, T156N, R92W, STANLEY, ND 58784
	S OF STANLEY ON HWY 8, STANLEY, ND 58784
HILAND CRUDE, LLC-WHITE EARTH STATION HILAND PARTNERS HOLDINGS LLC-NORTH ANTELOPE COMPRESSOR STATION	NE ¼, NE ¼, SEC. 32, T156N, R93W, STANLEY, ND 58784
	NE ¼, NE ¼, SEC. 1, T154N, R94W, STANLEY, ND 58784
J & J OILFIELD SERVICES INC	120 MAIN, STE 203, STANLEY, ND 58784
JON R, SHIRLEY ANN, CORPRON	48.25368, -102.38158, STANLEY, ND 58784
MARATHON PETROLEUM - STANLEY TRANSPORTATION TRUCK TERMINAL	8116 61ST ST, STANLEY, ND 58784
M-I SWACO	7903 OLD HIGHWAY 2, STANLEY, ND 58784
MOUNTRAIL COUNTY WEED BOARD	8103 61ST ST. NW, STANLEY, ND 58784
MULTI-CHEM GROUP LLC - STANLEY FACILITY	701 4TH STREET SW, STANLEY, ND 58784
NALCO COMPANY-STANLEY	6305 HIGHWAY 8, STANLEY, ND 58784
NALCO COMPANY - STANLEY FACILITY	6305 HIGHWAY 8, STANLEY, ND 58784
NORTH AMERICAN TRAILER SALES, LTD	8116 NW 61ST ST, STANLEY, ND 58784
NORTHERN TIER OIL TRANSPORT	8116 SOUTH 61ST STREET, STANLEY, ND 58784
PAT'S OFFROAD DBA OIL WORX	8116 61ST ST NW, STANLEY, ND 58784
PECAN PIPELINE (NORTH DAKOTA) INCAUSTIN COMPRESSOR STATION	SEC. 3, T154N, R90W, STANLEY, ND 58784
PECAN PIPELINE (NORTH DAKOTA) INCBOTTLESON COMPRESSOR STATION PECAN PIPELINE (NORTH DAKOTA) INCCORMYLO COMPRESSOR STATION	T154 R90 SCT22, STANLEY, ND 58784
,	SEC. 34, T154N, R90W, STANLEY, ND 58784
PECAN PIPELINE (NORTH DAKOTA) INCGEVING COMPRESSOR STATION PLAINS PIPELINE - STANLEY STATION	T152 R90 SCT9, STANLEY, ND 58784
PROJECT SAFE SEND	6124 HWY 8, STANLEY, ND 58784 8250 62ND ST NW, STANLEY, ND 58784
ROSS 03-04H	·
	48.37176, -102.52025, STANLEY, ND 58784
ROSS 13-15H	48.32784, -102.48380, STANLEY, ND 58784
ROSS 18-10H	48.34294, -102.48358, STANLEY, ND 58784
ROSS 2-03H	48.35705, -102.48395, STANLEY, ND 58784
ROSS 21-04H	48.37209, -102.50888, STANLEY, ND 58784
ROSS 35-0331H	48.35828, -102.48436, STANLEY, ND 58784
STANLEY BOOSTER STATION	7997 58TH STREET NW, STANLEY, ND 58784
STANLEY CITY OF	221 S MAIN ST, STANLEY, ND 58784
STANLEY CITY OF	221 S MAIN, STANLEY, ND 58784
STANLEY LACT STATION	6150 HWY 8, STANLEY, ND 58784
STANLEY MUD PLANT - INNOVATIVE SOLUTIONS LTD	7903 OLD HWY. 2, STANLEY, ND 58784
STANLEY MUNICIPAL AIRPORT STATOLLOUI & CAS LD ADVID ANDERSON COMPRESSOR STATION	6107 82ND AVENUE NORTHWEST, STANLEY, ND 58784
STATOIL OIL & GAS LP-ARVID ANDERSON COMPRESSOR STATION	T155 R92 SCT14, STANLEY, ND 58784
STATOIL OIL & GAS LP-FOUR WAY COMPRESSOR STATION	T156 R92 SCT31, STANLEY, ND 58784
STRATA CORPORATION-STANLEY	8116 61ST ST, NW #4, STANLEY, ND 58784
THERMO FLUIDS INC	7737 HIGHWAY 2, BUILDING 2, STANLEY, ND 58784

SUMMARY REPORT

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FACILITY REPORT

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COMPLIANCE REPORT

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region_code=&sic_code_&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=Beginning+Beginnin

region_code=&sic_code_desc=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databa

region_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=Beginning+With&cas_num=&chem_search=Beginning+With&cas_num=&chem_searc

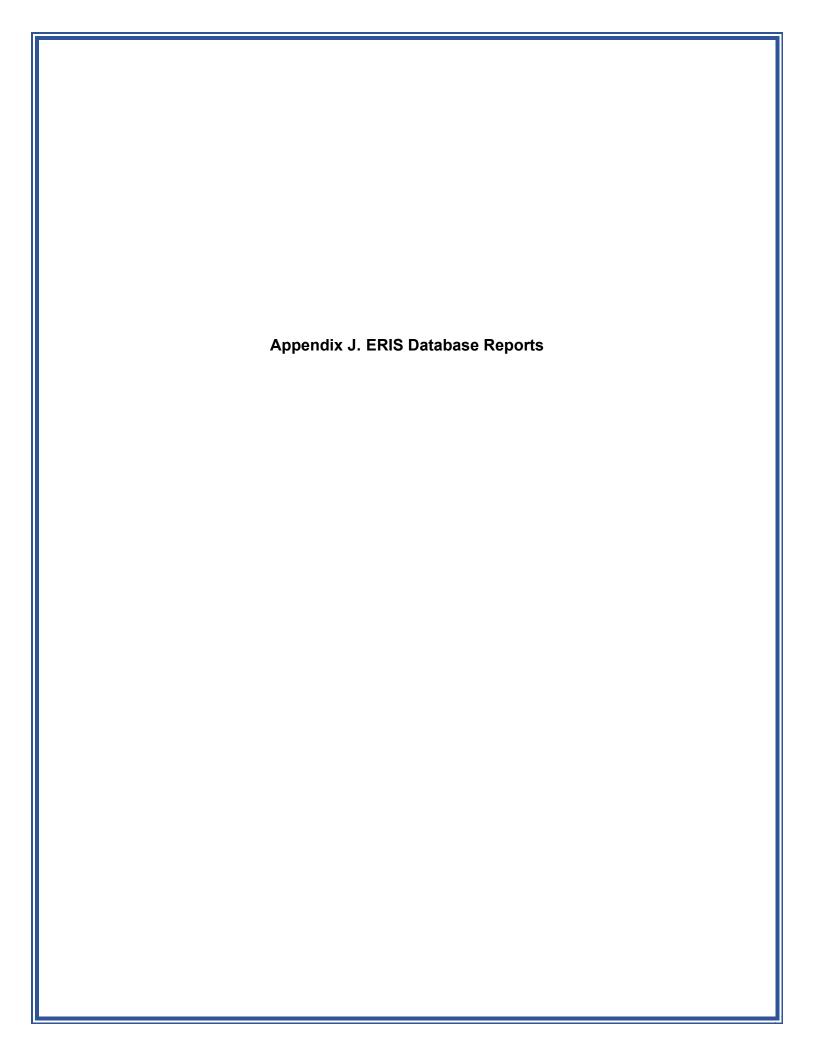
region_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code_desc=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code_desc=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_cod

region_code=&sic_code_desc=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&databaregion_code=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=Beginning+With&cas_num=&program_search=Beginning+Begi

ase_type=AIRS/AFS ase_type=AIRS/AFS ase_type=AIRS/AFS ase_type=AIRS/AFS ase_type=AIRS/AFS ase_type=AIRS/AFS ase_type=AIRS/AFS ase_type=AIRS/AFS se_type=AIRS/AFS ase_type=AIRS/AFS ase_type=AIRS/AFS

ase_type=AIRS/AFS
ase_type=AIRS/AFS

ase_type=AIRS/AFS
ase_type=AIRS/AFS





Project Property: Stanley Municipal Airport

Stanley Municipal Airport

Stanley ND

4545300-230576.01 **Project No:**

Report Type: Database Report

Order No: 23101200256

Mead & Hunt, Inc. Requested by: **Date Completed:**

October 13, 2023

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Executive Summary

|--|

Project Property: Stanley Municipal Airport

Stanley Municipal Airport Stanley ND

Project No: 4545300-230576.01

Coordinates:

 Latitude:
 48.3023571

 Longitude:
 -102.40766666

 UTM Northing:
 5,353,155.03

 UTM Easting:
 692,236.29

 UTM Zone:
 UTM Zone 13U

Elevation: 2,239 FT

Order Information:

Order No: 23101200256

Date Requested: October 12, 2023
Requested by: Mead & Hunt, Inc.
Report Type: Database Report

Historicals/Products:

Aerial Photographs Historical Aerials (with Project Boundaries)

City Directory Search CD - 2 Street Search

ERIS Xplorer
Excel Add-On

Excel Add-On

Fire Insurance Maps

US Fire Insurance Maps

Physical Setting Report (PSR)

Physical Setting Report (PSR)

Topographic MapsTopographic Maps

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
Standard Environmental Records			opensy	V				
Federal								
NPL	Υ	1	0	0	0	0	0	0
PROPOSED NPL	Υ	1	0	0	0	0	0	0
DELETED NPL	Υ	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Υ	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Υ	0.5	0	0	0	0	-	0
CERCLIS	Υ	0.5	0	0	0	0	-	0
IODI	Υ	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Υ	0.5	0	0	0	0	-	0
CERCLIS LIENS	Υ	PO	0	-	-	-	-	0
RCRA CORRACTS	Υ	1	0	0	0	0	0	0
RCRA TSD	Υ	0.5	0	0	0	0	-	0
RCRA LQG	Υ	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Υ	0.25	0	2	0	-	-	2
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Υ	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Υ	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Υ	PO	0	-	-	-	-	0
ERNS	Υ	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0
FRP	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DELISTED FRP	Υ	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Υ	0.25	0	0	0	-	-	0
BULK TERMINAL	Υ	0.25	0	0	0	-	-	0
SEMS LIEN	Υ	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
DOE FUSRAP	Υ	1	0	0	0	0	0	0
State	V		0	0	0	0	0	
SHWS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	2	0	0	0	-	2
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	2	1	0	-	-	3
AST	Υ	0.25	1	1	0	-	-	2
DTNK	Y	0.25	0	0	0	-	-	0
INST	Υ	0.5	0	0	0	0	-	0
BROWNFIELDS	Y	0.5	0	0	0	0	-	0
Tribal								
INDIAN LUST	Υ	0.5	0	0	0	0	-	0
INDIAN UST	Υ	0.25	0	0	0	-	-	0
DELISTED INDIAN LST	Y	0.5	0	0	0	0	-	0
DELISTED INDIAN UST	Y	0.25	0	0	0	-	-	0
County	No Co	ounty stand	dard enviror	nmental re	cord source	s available	for this Sta	ıte.
Additional Environmental Records								
Federal								
FINDS/FRS	Υ	PO	6	2	-	-	-	8
	Y	PO	0	-	-	-	-	0
TRIS	Y	0.5	0	0	0	0	-	0
PFAS NPL	Υ	0.5	0	0	0	0	-	0
PFAS FED SITES	Υ	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	,	0.0	J	J	U	J	-	U

0.5

0.5

0

0

0

0

0

0

Order No: 23101200256

PFAS NPDES

PFAS TRI

Dat	tabase	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
	PFAS WATER	Y	0.5	0	0	0	0	-	0
	PFAS TSCA	Y	0.5	0	0	0	0	-	0
	PFAS E-MANIFEST	Y	0.5	0	0	0	0	-	0
	PFAS IND	Y	0.5	0	0	0	0	-	0
	HMIRS	Y	0.125	0	0	-	-	-	0
	NCDL	Y	0.125	0	0	-	-	-	0
	TSCA	Υ	0.125	0	0	-	-	-	0
	HIST TSCA	Υ	0.125	0	0	-	-	-	0
	FTTS ADMIN	Y	PO	0	-	-	-	-	0
	FTTS INSP	Y	PO	0	-	-	-	-	0
	PRP	Y	PO	0	-	-	-	-	0
	SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
	ICIS	Y	PO	0	-	-	-	-	0
	FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
	DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
	FUDS	Y	1	0	0	0	0	0	0
	FUDS MRS	Y	1	0	0	0	0	0	0
	FORMER NIKE	Y	1	0	0	0	0	0	0
	PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
	MLTS	Y	PO	0	-	-	-	-	0
	HIST MLTS	Y	PO	0	-	-	-	-	0
	MINES	Υ	0.25	0	0	0	-	-	0
	SMCRA	Υ	1	0	0	0	0	0	0
	MRDS	Y	1	0	0	0	0	0	0
	LM SITES	Y	1	0	0	0	0	0	0
	ALT FUELS	Y	0.25	0	0	0	-	-	0
	CONSENT DECREES	Y	0.25	0	0	0	-	-	0
	AFS	Υ	PO	0	-	-	-	-	0
	SSTS	Y	0.25	0	0	0	-	-	0
	PCBT	Υ	0.5	0	0	0	0	-	0
	PCB	Y	0.5	0	0	0	0	-	0
Sta	ata.								
Sta		Y	0.5	0	0	0	0	_	0
	PFAS	Y	0.125	0	0	-	-	-	0
	SPILLS	Y	0.125	1	0	_	_	_	
	HIST SPILLS	,	0.120	•	J	-	-	-	1

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
HIST OGW SPILLS	Y	0.125	0	0	-	-	-	0
CDL	Y	0.25	0	0	0	-	-	0
UIC	Y	PO	0	-	-	-	-	0
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
AIR PERMITS	Y	0.25	0	0	0	-	-	0
FEEDLOTS	Υ	0.5	0	0	0	0	-	0
Tribal	No Tri	bal additio	nal environ	mental red	ord source	s available	for this Stat	te.
County	No Co	unty addit	ional enviro	nmental re	ecord sourc	es availabl	e for this St	ate.
_								
	Total:		12	6	0	0	0	18

^{*} PO – Property Only

^{* &#}x27;Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>1</u>	FINDS/FRS	STANLEY / STANLEY AIRPORT / U	PO BOX 328 STANLEY ND 58784	SE	0.00 / 0.00	-2	<u>18</u>
			Registry ID: 110056229656				
1	FINDS/FRS	STANLEY AIRPORT	PO BOX 489 STANLEY ND 58784	SE	0.00 / 0.00	-2	<u>18</u>
			Registry ID: 110056229647				
1	FINDS/FRS	STANLEY MUNI	UNK STANLEY ND 58784	SE	0.00 / 0.00	-2	<u>19</u>
			Registry ID: 110038074776				
1	FINDS/FRS	STANLEY MUNICIPAL AIRPORT	6107 82ND AVENUE NORTHWEST STANLEY ND 58784 Registry ID: 110056174606	SE	0.00 / 0.00	-2	<u>20</u>
<u>1</u>	LUST	Stanley Airport Authority	PO Box 328 Stanley ND 58784 ND	SE	0.00 / 0.00	-2	<u>20</u>
			Facility ID: 5259 LUST Status LUST Status Date:	Site Cleanup Co	ompleted 10/22/	1991	
1	LUST	Stanley Airport	PO Box 489 Stanley ND 58784 ND	SE	0.00 / 0.00	-2	<u>20</u>
			Facility ID: 5384 LUST Status LUST Status Date:	Site Cleanup Co	ompleted 10/22/	1991	
1	HIST SPILLS	Stanley / Airport / UST	Stanley ND	SE	0.00 / 0.00	-2	<u>21</u>
<u>1</u>	UST	Stanley Airport Authority	PO Box 328 Stanley ND 58784 ND	SE	0.00 / 0.00	-2	<u>21</u>
			Facility ID Facility Status: 5259	Inactive			
<u>1</u>	UST	Stanley Airport	PO Box 489 Stanley ND 58784 ND	SE	0.00 / 0.00	-2	<u>23</u>
			Facility ID Facility Status: 5384	Inactive			
1	AST	Stanley Municipal Airport	6135 82 Ave NW Stanley ND 58784	SE	0.00 / 0.00	-2	<u>26</u>
			Registration No Facility Status:	1203 Active			
<u>1</u>	FINDS/FRS	STANLEY AIRPORT AUTHORITY	PO BOX 328 STANLEY ND 58784	SE	0.00 / 0.00	-2	<u>27</u>
			Registry ID: 110063061715				
<u>1</u>	FINDS/FRS	STANLEY MUNICIPAL AIRPORT AUTHORITY	6107 82ND AVENUE NORTHWEST UNKNOWN ND 58000 Registry ID: 110070617400	SE	0.00 / 0.00	-2	<u>28</u>

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>2</u>	UST	Holiday Stationstore #432	402 Westview Ln Stanley ND 58784- ND	ENE	0.02 / 91.18	-3	<u>28</u>
			Facility ID Facility Status: 10878	Active			
<u>2</u>	FINDS/FRS	HOLIDAY STATIONSTORE #432	402 WESTVIEW LN STANLEY ND 58784	ENE	0.02 / 91.18	-3	<u>31</u>
			Registry ID: 110058241898				
<u>2</u>	RCRA VSQG	CASH WISE FOODS - STANLEY 3047	406 WESTVIEW LN STANLEY ND 58784	ENE	0.02 / 91.18	-3	<u>32</u>
			EPA Handler ID: NDR000014696				
<u>2</u>	FINDS/FRS	CASH WISE FOODS - STANLEY 3047	406 WESTVIEW LN STANLEY ND 58784	ENE	0.02 / 91.18	-3	<u>33</u>
			Registry ID: 110070664995				
<u>3</u>	RCRA VSQG	TRACTOR SUPPLY #1813	506 WESTVIEW LANE STANLEY ND 58784	NE	0.11 / 601.85	-5	<u>34</u>
			EPA Handler ID: NDR000011460				
<u>4</u> *	AST	Mountrail Williams Electric Cooperative	6150 82nd Ave NW Stanley ND 58784	ENE	0.12 / 627.27	3	<u>36</u>
			Builded No. 15 - 114 Oct.				

Executive Summary: Summary by Data Source

Standard

Federal

RCRA VSQG - RCRA Very Small Quantity Generators List

A search of the RCRA VSQG database, dated Jul 10, 2023 has found that there are 2 RCRA VSQG site(s) within approximately 0.25 miles of the project property.

Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (mi/ft)	Map Key
CASH WISE FOODS - STANLEY 3047	406 WESTVIEW LN STANLEY ND 58784	ENE	0.02 / 91.18	<u>2</u>
	EPA Handler ID: NDR000014696			
TRACTOR SUPPLY #1813	506 WESTVIEW LANE STANLEY ND 58784	NE	0.11 / 601.85	<u>3</u>
	EPA Handler ID: NDR000011460			

State

LUST - Leaking Underground Storage Tank List

A search of the LUST database, dated Aug 25, 2023 has found that there are 2 LUST site(s) within approximately 0.50 miles of the project property.

Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (mi/ft)	Map Key
Stanley Airport	PO Box 489 Stanley ND 58784 ND	SE	0.00 / 0.00	1
	Facility ID: 5384 LUST Status LUST Status Date: Site 0	Cleanup Completed 10/	22/1991	
Stanley Airport Authority	PO Box 328 Stanley ND 58784 ND	SE	0.00 / 0.00	<u>1</u>
	Facility ID: 5259 LUST Status LUST Status Date: Site (Cleanup Completed 10/	22/1991	

UST - Underground Storage Tank List

A search of the UST database, dated Aug 25, 2023 has found that there are 3 UST site(s) within approximately 0.25 miles of the project property.

Lower Elevation	Address	<u>Direction</u>	Distance (mi/ft)	Map Key
Stanley Airport	PO Box 489 Stanley ND 58784 ND	SE	0.00 / 0.00	1
	Facility ID Facility Status: 5384 Inact	ive		
Stanley Airport Authority	PO Box 328 Stanley ND 58784 ND	SE	0.00 / 0.00	1
	Facility ID Facility Status: 5259 Inact	ive		

Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (mi/ft)	<u> Map Key</u>
Holiday Stationstore #432	402 Westview Ln Stanley ND 58784- ND	ENE	0.02 / 91.18	<u>2</u>

Facility ID | Facility Status: 10878 | Active

AST - Registered Aboveground Storage Tanks

A search of the AST database, dated Aug 15, 2023 has found that there are 2 AST site(s) within approximately 0.25 miles of the project property.

Equal/Higher Elevation	<u>Address</u>	<u>Direction</u>	Distance (mi/ft)	<u>Map Key</u>		
Mountrail Williams Electric Cooperative	6150 82nd Ave NW Stanley ND 58784	ENE	0.12 / 627.27	<u>4</u>		
Registration No Facility Status: 4708 Active						
Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (mi/ft)	Map Key		
Stanley Municipal Airport	6135 82 Ave NW Stanley ND 58784	SE	0.00 / 0.00	1		
Registration No Facility Status: 1203 Active						

Non Standard

Federal

FINDS/FRS - Facility Registry Service/Facility Index

A search of the FINDS/FRS database, dated Mar 2, 2023 has found that there are 8 FINDS/FRS site(s) within approximately 0.02 miles of the project property.

Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (mi/ft)	Map Key
STANLEY MUNI	UNK STANLEY ND 58784	SE	0.00 / 0.00	1
	Registry ID: 110038074776			
STANLEY AIRPORT	PO BOX 489 STANLEY ND 58784	SE	0.00 / 0.00	1
	Registry ID: 110056229647			
STANLEY AIRPORT AUTHORITY	PO BOX 328 STANLEY ND 58784	SE	0.00 / 0.00	1
	Registry ID: 110063061715			
STANLEY MUNICIPAL AIRPORT	6107 82ND AVENUE NORTHWEST STANLEY ND 58784	SE	0.00 / 0.00	1
	Registry ID: 110056174606			
STANLEY / STANLEY AIRPORT / U	PO BOX 328 STANLEY ND 58784	SE	0.00 / 0.00	1
	Registry ID: 110056229656			

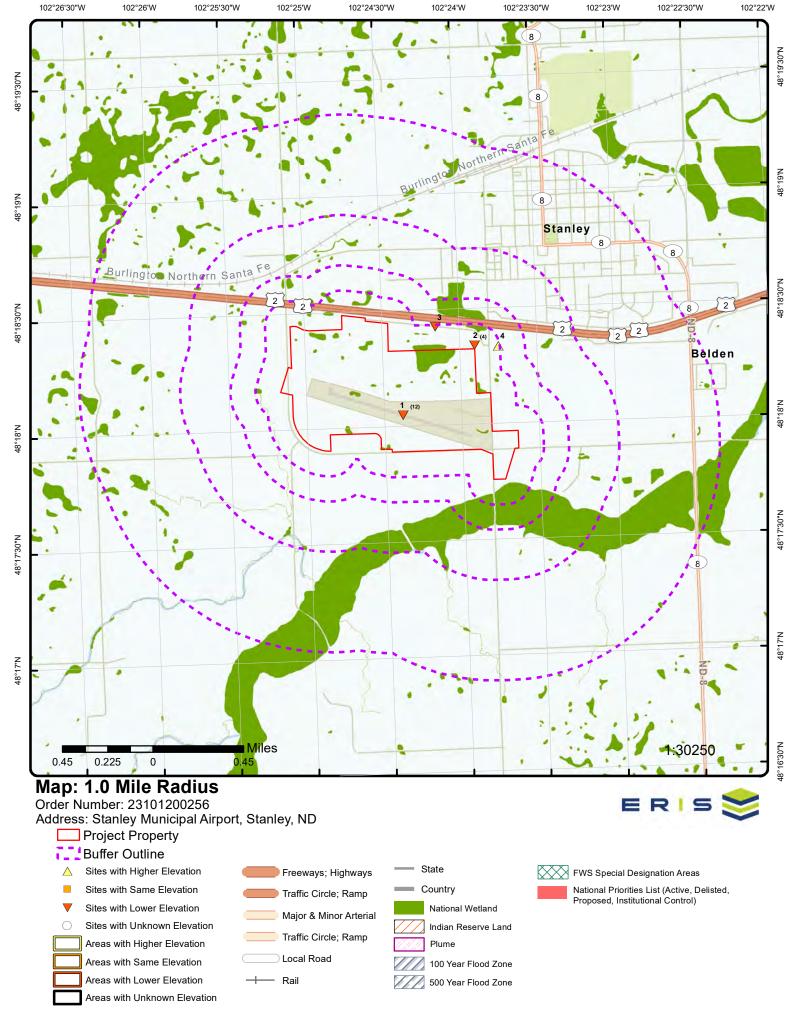
Lower Elevation	<u>Address</u>	<u>Direction</u>	Distance (mi/ft)	Map Key
STANLEY MUNICIPAL AIRPORT AUTHORITY	6107 82ND AVENUE NORTHWEST UNKNOWN ND 58000	SE	0.00 / 0.00	1
	Registry ID: 110070617400			
CASH WISE FOODS - STANLEY 3047	406 WESTVIEW LN STANLEY ND 58784	ENE	0.02 / 91.18	<u>2</u>
	Registry ID: 110070664995			
HOLIDAY STATIONSTORE #432	402 WESTVIEW LN STANLEY ND 58784	ENE	0.02 / 91.18	<u>2</u>
	Registry ID: 110058241898			

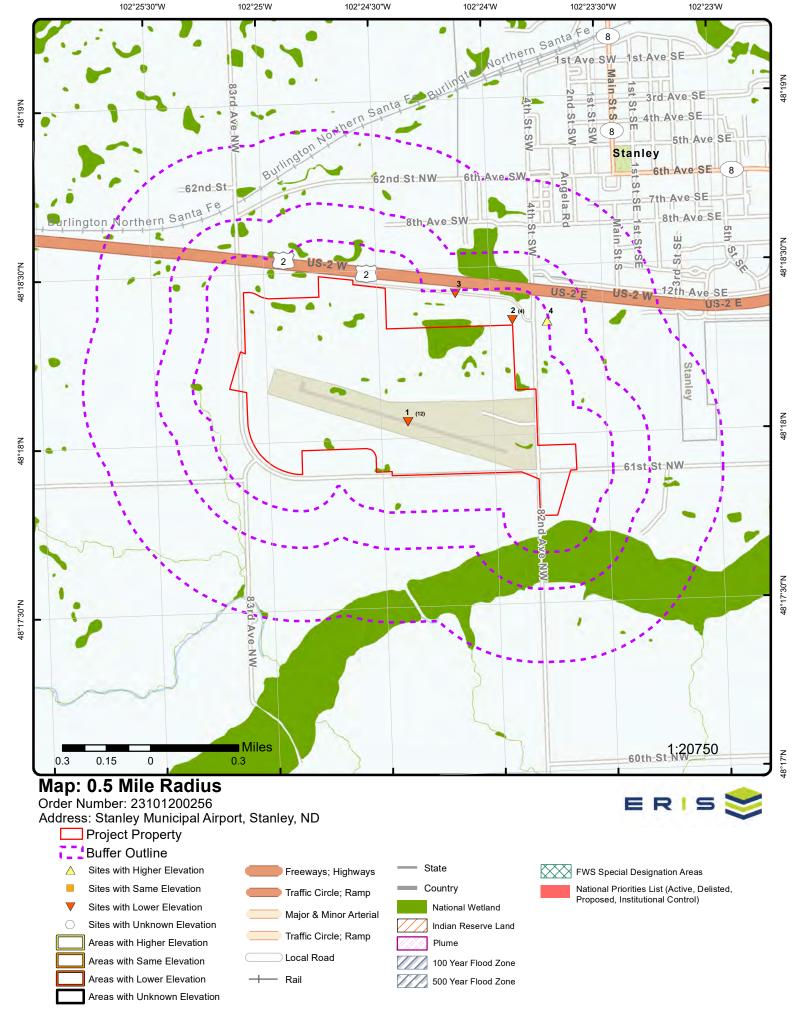
State

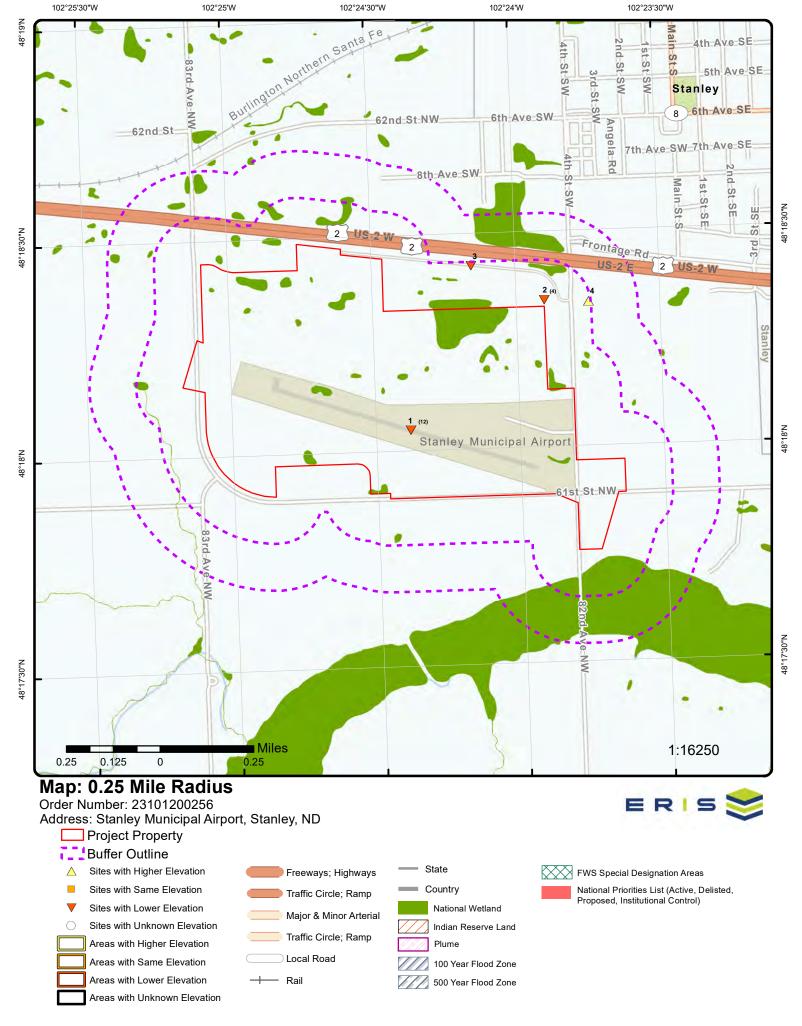
HIST SPILLS - Historical Spills Databse

A search of the HIST SPILLS database, dated Jul 1, 2014 has found that there are 1 HIST SPILLS site(s) within approximately 0.12 miles of the project property.

Lower Elevation	<u>Address</u>	Direction	Distance (mi/ft)	Map Key
Stanley / Airport / UST	Stanley ND	SE	0.00 / 0.00	<u>1</u>









Aerial Year: 2021

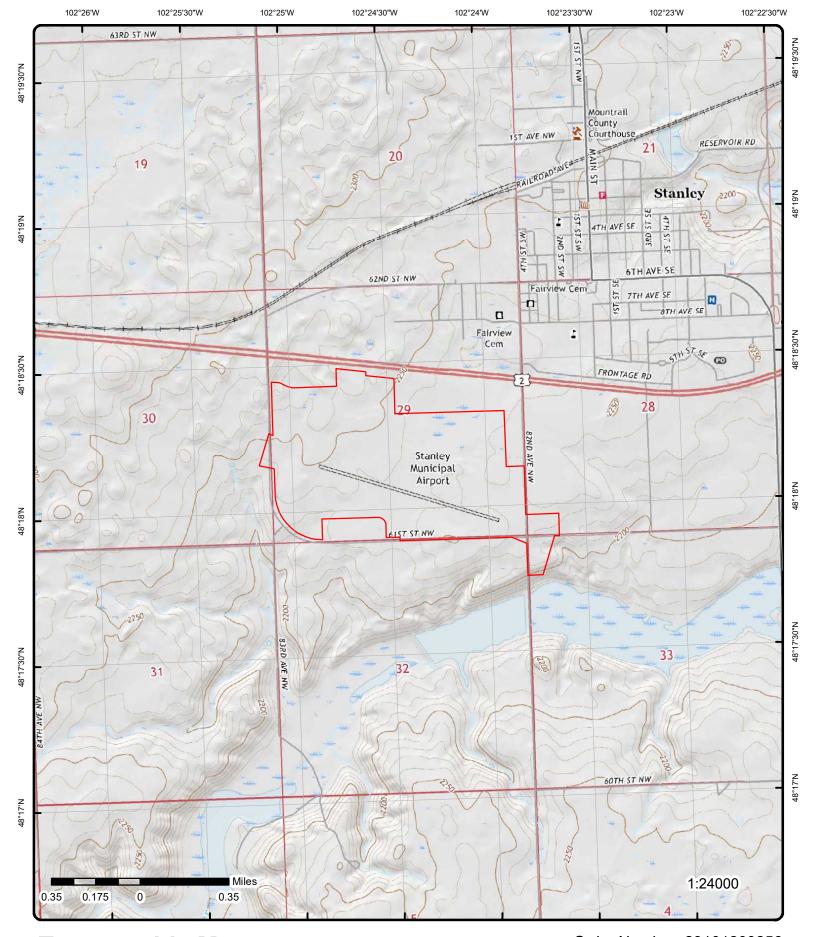
Address: Stanley Municipal Airport, Stanley, ND

Source: ESRI World Imagery

Order Number: 23101200256



© ERIS Information Inc.



Topographic Map Year: 2020

Address: Stanley Municipal Airport, ND

Quadrangle(s): Stanley ND, Stanley SE ND

Source: USGS Topographic Map

Order Number: 23101200256



© ERIS Information Inc.

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 12	SE	0.00 / 0.00	2,236.96 / -2	STANLEY/STANLEY AIRPORT/U PO BOX 328 STANLEY ND 58784	FINDS/FRS
Registry ID: FIPS Code:		110056229656				
HUC Code:		10110101				
	mai	STATIONARY				
Site Type Na		STATIONARY				
Location Des	•					
Supplementa Create Date:		04-NOV-13				
Update Date:		04-NOV-13				
Interest Type		STATE MASTER	•			
SIC Codes:	·s.	4512	`			
SIC Codes. SIC Code De	scrintions:	AIR TRANSPOR	TATION SCHE	DUI ED		
NAICS Code:		71111 110 11101 011		LDOLLD		
	Descriptions:					
Conveyor:	Descriptions.	ND-FP				
Federal Facil	lity Code:					
Federal Ager						
Tribal Land C						
Tribal Land N	lame:					
Congression	al Dist No:	00				
Census Bloc	k Code:	3806195520011	72			
EPA Region	Code:	08				
County Name	e:	MOUNTRAIL				
US/Mexico B	order Ind:					
Latitude:		48.30537				
Longitude:		-102.40754				
Reference Po	oint:	OTHER				
Coord Collec	tion Method:					
Accuracy Va	lue:					
Datum:		NAD83				
Source:						
Facility Detail					il.disp_program_facility?p_registry_id=110056229656	
Data Source:		Facility Registry	Service - Single	File		
Program Acr	onyms:					
ND-FP:4753						
1	2 of 12	SE	0.00 / 0.00	2,236.96 /	STANLEY AIRPORT PO BOX 489	FINDS/FRS

FINDS/FRS	STANLEY AIRPORT PO BOX 489	2,236.96 / -2	0.00 / 0.00	SE	2 of 12	1	
	STANLEY ND 58784	_	0.00				

Order No: 23101200256

Registry ID: 110056229647

FIPS Code: HUC Code: 10110101 Site Type Name: STATIONARY Location Description:

Supplemental Location:

Create Date: 04-NOV-13

Update Date: Interest Types: STATE MASTER

SIC Codes:

SIC Code Descriptions:

NAICS Codes:

Map Key Number of Direction Distance Elev/Diff Site DB
Records (mi/ft) (ft)

NAICS Code Descriptions:

Conveyor:

ND-FP

Federal Facility Code: Federal Agency Name: Tribal Land Code: Tribal Land Name:

Congressional Dist No: 00

Census Block Code: 380619552001172

EPA Region Code: 08

County Name: MOUNTRAIL

US/Mexico Border Ind:

 Latitude:
 48.300216

 Longitude:
 -102.398565

Reference Point:

Coord Collection Method:

Accuracy Value:

Program Acronyms:

Datum: NAD83

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110056229647

Data Source: Facility Registry Service - Single File

ND-FP:4752

1 3 of 12 SE 0.00 / 2,236.96 / STANLEY MUNI FINDS/FRS 0.00 -2 UNK STANLEY ND 58784

 Registry ID:
 110038074776

 FIPS Code:
 38061

 HUC Code:
 10110101

 Site Type Name:
 STATIONARY

Location Description: Supplemental Location:

Create Date: 18-FEB-09
Update Date: 01-JUN-17

Interest Types: AIR EMISSIONS CLASSIFICATION UNKNOWN

SIC Codes:

SIC Code Descriptions:

NAICS Codes:

NAICS Code Descriptions:

Conveyor: EIS

Federal Facility Code: Federal Agency Name: Tribal Land Code: Tribal Land Name:

Congressional Dist No: 00

Census Block Code: 380619552001172

EPA Region Code: 08

County Name: MOUNTRAIL

US/Mexico Border Ind:

Latitude: 48.3008 Longitude: -102.40635

Reference Point:

Coord Collection Method: Accuracy Value:

Datum: NAD83

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110038074776

Order No: 23101200256

Data Source: Facility Registry Service - Single File

Program Acronyms:

EIS:9264411

Elev/Diff DB Map Key Number of Direction Distance Site Records (mi/ft) (ft) 2,236.96/ 4 of 12 SE 0.00/ STANLEY MUNICIPAL AIRPORT 1 **FINDS/FRS** 6107 82ND AVENUE NORTHWEST 0.00 -2 STANLEY ND 58784

Registry ID: 110056174606 FIPS Code: 38061 **HUC Code:** 10110101 Site Type Name: STATIONARY

Location Description: Supplemental Location:

Create Date: 04-NOV-13 Update Date: 30-SEP-16

ICIS-NPDES NON-MAJOR, STATE MASTER Interest Types:

SIC Codes: 4581

SIC Code Descriptions: AIRPORTS, FLYING FIELDS, AND AIRPORT TERMINAL SERVICES

NAICS Codes:

NAICS Code Descriptions:

ICIS Conveyor:

Federal Facility Code: Federal Agency Name: Tribal Land Code: Tribal Land Name:

Congressional Dist No: 00

Census Block Code: 380619552001172

EPA Region Code:

County Name: **MOUNTRAIL**

US/Mexico Border Ind:

Latitude: 48.298339 Longitude: -102.397144

Reference Point:

Coord Collection Method: INTERPOLATION-PHOTO

Accuracy Value:

NAD83 Datum:

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110056174606

Facility Registry Service - Single File Data Source:

Program Acronyms:

ND-FP:12701, ND-FP:140632, NPDES:NDR050171

5 of 12 SE 0.00/ 2,236.96/ Stanley Airport Authority 1 **LUST** PO Box 328 0.00 -2 Stanley ND 58784 ND

Facility ID: 5259 Owner Name: Stanley Airport Authority

Box 328 Facility County: Mountrail Owner Address:

48.300508 Stanley ND 58784 Latitude: Owner City:

Longitude: -102.398194

Detail(s)

Alternate ID: 5259

LUST Status: Site Cleanup Completed

LUST Status Date: 10/22/1991

SE 1 6 of 12 0.00/ 2,236.96/ Stanley Airport **LUST** PO Box 489 0.00 Stanley ND 58784 ND

Order No: 23101200256

5384 Facility ID: Owner Name: Stanley Airport Authority Facility County: PO Box 328 Mountrail Owner Address:

Latitude: 48.300216 Owner City: Stanley ND 58784 Longitude: -102.398565

Map Key Number of Direction Distance Elev/Diff Site DΒ Records (mi/ft) (ft)

Detail(s)

Alternate ID: 5384

LUST Status: Site Cleanup Completed

LUST Status Date: 10/22/1991

SE 1 7 of 12 0.00/ 2,236.96/ Stanley / Airport / UST -2

0.00

HIST SPILLS

Order No: 23101200256

Stanley ND

Spill ID: SPL404 Range: 091 . Latitude: 48.300508 Township: 156 Longitude: -102.39819 Section: 29

County: Mountrail Quarter:

--Details--

10/21/1991 Spill Size: Unknown Date Reported:

Contaminant: Gasoline Spill Units:

1 8 of 12 SE 0.00/ 2,236.96/ Stanley Airport Authority UST PO Box 328 0.00 -2

Stanley ND 58784 ND

TCO Spill Sec Mat:

Facility ID: 5259 Owner Name: Stanley Airport Authority Box 328 Facility Status: Inactive Owner Address:

Facility County: Mountrail Owner City: Stanley ND 58784 Facility Phone:

Latitude: 48.300508 -102.398194 Longitude:

1000

Tank Details

2",="R-2 TCO Tightness Test: False Tank No: Tank Alternate ID: Permanently Out of Use TCO Pipe Tight Test: False

Tank Status: True TCO Pipe LD Mech: False Tank Fed Regulated: False TCO Pipe LD Elec: 1/1/1900 TCO Pipe Install Dt: Tank AST: False False Tank Stand By: 1000 TCO LD Other: False Tank Total Capacity: 1/1/1900 TCO LD Deferred: False Tank Date Installed: 10/21/1991 TCO LD Not Listed: False Tank removed from ground TCO Pipe LD Other: False

Tank Date Closed: TCO Pipe LD Defer: True Tank Closure Status: Unknown Pipe LD Not Listed: Tank Material: None

Tank Secondary Mat: False TCO Overfill Type: False Tank Vapor Monitor: False False Pipe Visual Mntr: Tank GW Monitor: False Pipe Sump Alarm: Tank Int Dbl Walled: False TCO Spill Capacity: Tank Int Sec Cont: False TCO Spill Install Dt: Tank Pipe Vap Mntr: False TCO Spill Material:

TCO Capacity: Gasoline TCO Spill Comment: False **Tcospillinterstitialdbl** TCO Substance: False Unknown

walled: TCO Pipe Material: None TCO Spill Tight Test: False TCO Spill LD Other: TCO Pipe Sec Mat: Safe Suction False False 1/1/1900

TCO Pipe Type: Spill LD Not Listed: Sump Install Dt: TCO Overfill Protect: False TCO Spill Protect: False Sump Bucket Mat: TCO ATG: False Tcosumpbucketsecon darymaterial:

TCO MTG: False **TCO Sump Comment:** False Pipe Int Dbl Walled: Sump Int Dbl Walled: False False Tcopipeinterstitialsec False Sump Tight Test: False

Tank Pipe GW Mntr:

Map Key Numbe Record		Elev/Diff Site (ft)	
contain:			
TCO SIR:	False	TCO Sump LD Other:	False
TCO Pipe SIR:	True	Sump LD Not Listed:	False
TCO Inventory Ctrl:	True	TCO Contained:	
Tank Details			
Tank No:	1",="R-1	TCO Tightness Test:	False
rank No. Tank Alternate ID:	Permanently Out of Use	TCO Tightness Test. TCO Pipe Tight Test:	False
Tank Status:	True	TCO Pipe LD Mech:	False
	False	•	1/1/1900
Tank Fed Regulated:		TCO Pipe LD Elec:	False
Tank AST:	False	TCO Pipe Install Dt:	
ank Stand By:	1000	TCO LD Other:	False
ank Total Capacity:	1/1/1900	TCO LD Deferred:	False
ank Date Installed:	10/21/1991	TCO LD Not Listed:	False
ank Date Closed:	Tank removed from ground	TCO Pipe LD Other:	False
ank Closure Status:	Unknown	TCO Pipe LD Defer:	True
ank Material:	None	Pipe LD Not Listed:	
ank Secondary Mat:	False	TCO Overfill Type:	False
ank Vapor Monitor:	False	Pipe Visual Mntr:	False
ank GW Monitor:	False	Pipe Sump Alarm:	0
ank Int Dbl Walled:	False	TCO Spill Capacity:	
ank Int Sec Cont:	False	TCO Spill Install Dt:	
ank Pipe Vap Mntr:	False	TCO Spill Material:	
ank Pipe GW Mntr:	1000	TCO Spill Sec Mat:	
CO Capacity:	Gasoline	TCO Spill Comment:	False
CO Substance:	Unknown	Tcospillinterstitialdbl	False
		walled:	
CO Pipe Material:	None	TCO Spill Tight Test:	False
CO Pipe Sec Mat:	Safe Suction	TCO Spill LD Other:	False
CO Pipe Type:	False	Spill LD Not Listed:	1/1/1900
CO Overfill Protect:	False	Sump Install Dt:	17 17 10 00
CO Spill Protect:	False	Sump Bucket Mat:	
CO Spill 1 Totect.	False	Tcosumpbucketsecon	
CO ATG.	i dise	darymaterial:	
CO MTC.	Foloo		Foloo
CO MTG:	False	TCO Sump Comment:	False
Pipe Int Dbl Walled:	False	Sump Int Dbl Walled:	False
copipeinterstitialsec	False	Sump Tight Test:	False
contain:	Edua	T00 0 1 D 01	False
CO SIR:	False	TCO Sump LD Other:	False
CO Pipe SIR:	True	Sump LD Not Listed:	False
CO Inventory Ctrl:	True	TCO Contained:	
<u> Fank Details</u>			
Гапk No:	3",="R-3	TCO Tightness Test:	False
ank No. ank Alternate ID:	Permanently Out of Use	TCO Pipe Tight Test:	False
ank Status:	True	TCO Pipe LD Mech:	False
ank Status. ank Fed Regulated:	False	TCO Pipe LD Mech. TCO Pipe LD Elec:	1/1/1900
•		•	
ank AST:	False	TCO I D Othor:	False False
ank Stand By:	1000	TCO LD Other:	
ank Total Capacity:	1/1/1900	TCO LD Deferred:	False
ank Date Installed:	10/21/1991	TCO LD Not Listed:	False
ank Date Closed:	Tank removed from ground	TCO Pipe LD Other:	False
ank Closure Status:	Unknown	TCO Pipe LD Defer:	True
ank Material:	None	Pipe LD Not Listed:	
ank Secondary Mat:	False	TCO Overfill Type:	False
ank Vapor Monitor:	False	Pipe Visual Mntr:	False
ank GW Monitor:	False	Pipe Sump Alarm:	0
ank Int Dbl Walled:	False	TCO Spill Capacity:	
ank Int Sec Cont:	False	TCO Spill Install Dt:	
ank Pipe Vap Mntr:	False	TCO Spill Material:	
ank Pipe GW Mntr:	1000	TCO Spill Sec Mat:	
CO Capacity:	Gasoline	TCO Spill Comment:	False
CO Substance:	Unknown	Tcospillinterstitialdbl	False
	·	. Jospinina sudalubi	. 4.50
		walled:	

Map Key	Number Record		Distance (mi/ft)	Elev/Diff Site (ft)		DB
TCO Pipe Sec TCO Pipe Typ TCO Overfill I	oe:	Safe Suction False False		TCO Spill LD Other: Spill LD Not Listed: Sump Install Dt:	False 1/1/1900	
TCO Spill Pro		False False		Sump Bucket Mat: Tcosumpbucketsecon darymaterial:		
TCO MTG:		False		TCO Sump Comment:	False	
Pipe Int Dbl V Tcopipeinters		False False		Sump Int Dbl Walled: Sump Tight Test:	False False	
contain: TCO SIR:		False		TCO Sump LD Other:	False	
TCO SIR. TCO Pipe SIR).	True		Sump LD Not Listed:	False	
TCO Inventor		True		TCO Contained:		
Tank Details						
Tank No:		4",="A-4		TCO Tightness Test:	False	
Tank Alternat	te ID:	Currently In Use		TCO Pipe Tight Test:	False	
Tank Status:		False		TCO Pipe LD Mech:	False	
Tank Fed Reg	gulated:	True		TCO Pipe LD Elec:	4/1/1990	
Tank AST:	,	False		TCO Pipe Install Dt:	False	
Tank Stand B	iv:	1000		TCO LD Other:	False	
Tank Total Ca	•	4/1/1990		TCO LD Deferred:	True	
Tank Date Ins				TCO LD Not Listed:	False	
Tank Date Clo	osed:			TCO Pipe LD Other:	False	
Tank Closure	Status:	Not Listed		TCO Pipe LD Defer:	True	
Tank Material	l:	None		Pipe LD Not Listed:		
Tank Seconda	ary Mat:	False		TCO Overfill Type:	False	
Tank Vapor N	onitor:	False		Pipe Visual Mntr:	False	
Tank GW Mor	nitor:	False		Pipe Sump Alarm:	0	
Tank Int Dbl V	Nalled:	False		TCO Spill Capacity:		
Tank Int Sec	Cont:	False		TCO Spill Install Dt:		
Tank Pipe Va	p Mntr:	False		TCO Spill Material:		
Tank Pipe GV	V Mntr:	1000		TCO Spill Sec Mat:		
TCO Capacity		Gasoline		TCO Spill Comment:	False	
TCO Substan	ce:	Not Listed		Tcospillinterstitialdbl walled:	False	
TCO Pipe Mai		None		TCO Spill Tight Test:	False	
TCO Pipe Sec		Not Listed		TCO Spill LD Other:	False	
TCO Pipe Typ		False		Spill LD Not Listed:	1/1/1900	
TCO Overfill I		False		Sump Install Dt:		
TCO Spill Pro TCO ATG:	tect:	False False		Sump Bucket Mat: Tcosumpbucketsecon darymaterial:		
TCO MTG:		False		TCO Sump Comment:	False	
Pipe Int Dbl V	Valled:	False		Sump Int Dbl Walled:	False	
Tcopipeinters		False		Sump Tight Test:	False	
TCO SIR:		False		TCO Sump LD Other:	False	
TCO Pipe SIR TCO Inventor		False False		Sump LD Not Listed: TCO Contained:	False	
1	9 of 12	SE	0.00 /	2,236.96 / Stanley Airp		UST
			0.00	-2 PO Box 489 Stanley ND		007
Facility ID:		5384		Owner Name:	Stanley Airport Authority	
Facility Status	s:	Inactive		Owner Address:	PO Box 328	
Facility Coun		Mountrail		Owner City:	Stanley ND 58784	
Latitude:	•	48.300216		Facility Phone:	•	
Longitude:		-102.398565		•		
Tank Details						
Tank No:		5",="A-5		TCO Tightness Test:	False	

	Number Records		Direction	Distance (mi/ft)	Elev/Diff (ft)	Site		Ĺ
Tank Status:		False			TCO Pipe	e LD Mech:	False	
Tank Fed Reg	julated:	True			TCO Pipe	e LD Elec:	4/1/1990	
Tank AST:		False			TCO Pipe	e Install Dt:	False	
Tank Stand By	y:	1000			TCO LD	Other:	False	
Tank Total Ca	apacity:	4/1/1990			TCO LD	Deferred:	True	
Tank Date Ins	talled:				TCO LD	Not Listed:	False	
Tank Date Clo	osed:				TCO Pipe	e LD Other:	False	
Tank Closure	Status:	Not Listed			TCO Pipe	e LD Defer:	True	
Tank Material:	! :	None			Pipe LD I	Not Listed:		
Tank Seconda	ary Mat:	False			•	erfill Type:	False	
ank Vapor M	•	False			Pipe Visu	• •	False	
ank GW Mon		False			•	np Alarm:	0	
ank Int Dbl V		False			•	l Capacity:		
Tank Int Sec (False				I Install Dt:		
ank Pipe Vap		False			•	Il Material:		
ank Pipe GW		1000			•	I Sec Mat:		
CO Capacity		Gasoline				l Comment:	False	
CO Substant		Not Listed			•		False	
CO Substant	ce.	NOI LISIEU			walled:	nterstitialdbl	raise	
500 Dina Mad	(! . l .	Mana				II Timbet To at	Talaa	
CO Pipe Mat		None			•	Il Tight Test:	False	
CO Pipe Sec		Not Listed			•	I LD Other:	False	
CO Pipe Typ		False				Not Listed:	1/1/1900	
CO Overfill F		False			Sump Ins	stall Dt:		
CO Spill Pro	tect:	False			•	ıcket Mat:		
CO ATG:		False			Tcosump	obucketsecon		
					darymate	erial:		
CO MTG:		False			TCO Sun	np Comment:	False	
Pipe Int Dbl W	Valled:	False			Sump Int	Dbl Walled:	False	
copipeinters ontain:	stitialsec	False			Sump Tig	ght Test:	False	
CO SIR:		False			TCO C	nn I D Othor	False	
		False				np LD Other:	False	
TCO Pipe SIR. TCO Inventory		False			TCO Con	Not Listed:	raise	
Tank Details								
「ank No:		3",="R-3			TCO Tigl	htness Test:	False	
	e ID:		tly Out of Use			htness Test: e Tight Test:	False False	
ank Alternate	e ID:		tly Out of Use		TCO Pipe			
Tank Alternate Tank Status:		Permanen	tly Out of Use		TCO Pipe TCO Pipe	e Tight Test: e LD Mech:	False	
Гапк Alternate Гапк Status: Гапк Fed Reg		Permanen True False	tly Out of Use		TCO Pipe TCO Pipe TCO Pipe	e Tight Test: e LD Mech: e LD Elec:	False False 1/1/1900	
Fank Alternate Fank Status: Fank Fed Reg Fank AST:	gulated:	Permanen True False False	tly Out of Use		TCO Pipe TCO Pipe TCO Pipe TCO Pipe	e Tight Test: e LD Mech: e LD Elec: e Install Dt:	False False 1/1/1900 False	
Fank Alternate Fank Status: Fank Fed Reg Fank AST: Fank Stand B	gulated:	Permanen True False False 1000	tly Out of Use		TCO Pipe TCO Pipe TCO Pipe TCO Pipe TCO LD	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other:	False False 1/1/1900 False False	
ank Alternate ank Status: ank Fed Reg ank AST: ank Stand B ank Total Ca	gulated: sy: apacity:	Permanen True False False 1000 1/1/1900			TCO Pipe TCO Pipe TCO Pipe TCO Pipe TCO LD O	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred:	False False 1/1/1900 False False True	
Fank Alternate Fank Status: Fank Fed Reg Fank AST: Fank Stand By Fank Total Ca Fank Date Ins	gulated: ly: apacity: stalled:	Permanen True False False 1000 1/1/1900 10/21/199	1	nd	TCO Pipe TCO Pipe TCO Pipe TCO Pipe TCO LD P TCO LD P	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed:	False False 1/1/1900 False False True False	
Tank Alternate Tank Status: Tank Fed Reg Tank AST: Tank Stand B Tank Total Ca Tank Date Ins Tank Date Clo	gulated: ly: apacity: stalled: osed:	Permanen True False False 1000 1/1/1900 10/21/1990 Tank remo	1 oved from grour		TCO Pipe TCO Pipe TCO Pipe TCO Pipe TCO LD P TCO LD P TCO Pipe	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other:	False False 1/1/1900 False False True False False False	
Fank Alternate Fank Status: Fank Fed Reg Fank AST: Fank Stand B Fank Total Ca Fank Date Ins Fank Date Clo Fank Closure	gulated: ly: apacity: stalled: osed: Status:	Permanen True False False 1000 1/1/1900 10/21/1990 Tank remo	1		TCO Pipe TCO Pipe TCO Pipe TCO LD O TCO LD O TCO LD O TCO Pipe TCO Pipe	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other:	False False 1/1/1900 False False True False	
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Fank Alternate Fank Status: Fank Fed Reg Fank Stand B Fank Total Ca Fank Date Ins Fank Closure Fank Material Fank Vapor M Fank GW Mon	gulated: ly: apacity: stalled: osed: Status: !: ary Mat: donitor: nitor:	Permanen True False False 1000 1/1/1900 10/21/1990 Tank remo Asphalt Co None False False False	1 oved from grour		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO Pipe TCO Pipe Pipe LD I TCO Ove Pipe Vist Pipe Sun	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: ual Mntr:	False False 1/1/1900 False False True False False True False False True	
ank Alternate ank Status: ank Fed Reg ank AST: ank Stand B ank Total Ca ank Date Ins ank Closure ank Material ank Seconda ank GW Mon ank Int Dbl V	qulated: ly: apacity: stalled: osed: Status: i: ary Mat: donitor: nitor: Walled:	Permanen True False False 1000 1/1/1900 10/21/199 Tank remo Asphalt Co None False False False False	1 oved from grour		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO Pipe TCO Pipe Pipe LD I TCO Ove Pipe Vist Pipe Sun TCO Spil	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: ual Mntr: np Alarm: Il Capacity:	False False 1/1/1900 False False True False False True False False False False False	
ank Alternate ank Status: ank Fed Reg ank AST: ank Stand B ank Total Ca ank Date Ins ank Closure ank Material ank Seconda ank GW Mon ank Int Dbl V ank Int Sec C	gulated: ay: apacity: stalled: osed: Status: i: ary Mat: flonitor: nitor: Walled: Cont:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False False False False False	1 oved from grour		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO Pipe TCO Pipe Pipe LD I TCO Sur Pipe Sun TCO Spil	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: ual Mntr: np Alarm: Il Capacity: Il Install Dt:	False False 1/1/1900 False False True False False True False False False False False	
Tank Alternate Tank Status: Tank Fed Reg Tank Stand B Tank Total Ca Tank Date Ins Tank Closure Tank Geconda Tank GW Mon Tank GW Mon Tank Int Dbl V Tank Int Sec O	yulated: sy: spacity: stalled: ssed: Status: lary Mat: lonitor: nitor: Walled: Cont: p Mntr:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False False False False False False False	1 oved from grour		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO Pipe TCO Pipe Pipe LD I TCO Ove Pipe Vist Pipe Sun TCO Spil	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: ual Mntr: np Alarm: Il Capacity: Il Install Dt:	False False 1/1/1900 False False True False False True False False False False False	
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Tank Alternate Tank Status: Tank Fed Reg Tank AST: Tank Stand Be Tank Date Ins Tank Date Clo Tank Closure Tank Material Tank Second Tank GW Mon Tank Int Dbl V Tank Int Sec Tank Pipe Vap Tank Pipe GW TO Capacity	yulated: y: apacity: stalled: osed: Status: !: ary Mat: Honitor: Nalled: Cont: p Mntr: V Mntr:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False False False False False False False False	1 oved from grour oated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO Pipe TCO Pipe Pipe LD I TCO Spil TCO Spil TCO Spil TCO Spil TCO Spil TCO Spil	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: ual Mntr: np Alarm: Il Capacity: Il Install Dt: Il Material: Il Sec Mat:	False False 1/1/1900 False False True False False True False O	
Tank Alternate Tank Status: Tank Fed Reg Tank Stand Be Tank Total Cae Tank Date Ins Tank Closure Tank Material Tank Second Tank Wapor M Tank Int Dbl V Tank Int Sec O Tank Pipe Vap Tank Pipe GW TOO Substand	yulated: y: apacity: stalled: osed: Status: !: ary Mat: donitor: nitor: Valled: Cont: p Mntr: V Mntr: V: ce:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False False False False False False False False False False	1 oved from grour oated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO Pipe TCO Pipe TCO Pipe Pipe LD I TCO Spill	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: e LJ Defer: lual Mntr: np Alarm: Il Capacity: Il Install Dt: Il Material: Il Sec Mat: Il Comment:	False False 1/1/1900 False False True False True False True False O	
Tank Alternate Tank Status: Tank Fed Reg Tank Stand Be Tank Total Ca Tank Date Ins Tank Date Clo Tank Gusure Tank Seconda Tank Wapor Me Tank Int Dol V Tank Pipe Vap Tank Pipe GW TOO Substand TOO Pipe Material	yulated: y: apacity: stalled: osed: Status: : ary Mat: Ionitor: nitor: Valled: Cont: p Mntr: V Mntr: ce:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False False False False False False False False False False False False False False False False False False False	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO Pipe TCO Pipe Pipe LD I TCO Spill	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: ual Mntr: np Alarm: Il Capacity: Il Install Dt: Il Sec Mat: Il Comment: nterstitialdbl	False False 1/1/1900 False False True False True False O False False False False	
Tank Alternate Tank Status: Tank Fed Reg Tank Stand Be Tank Total Ca Tank Date Ins Tank Date Clo Tank Material Tank Seconda Tank Wapor Me Tank GW Mon Tank Int Sec Co Tank Pipe Vap Tank Pipe GW TOO Substand TOO Pipe Mate TOO Pipe Sec	yulated: y: apacity: stalled: osed: Status: : ary Mat: Ionitor: nitor: Valled: Cont: p Mntr: V Mntr: ce: terial:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False False False False False False False False False False False False False False False False False False False	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO Pipe TCO Pipe Pipe LD I TCO Spill	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: ual Mntr: np Alarm: Il Capacity: Il Material: Il Sec Mat: Il Comment: nterstitialdbl Il Tight Test: Il LD Other:	False False 1/1/1900 False False True False True False O False False False False False False False False	
Fank Alternate Fank Status: Fank Fed Reg Fank Stand Be Fank Total Ca Fank Date Ins Fank Closure Fank Material: Fank Seconda Fank Wapor M Fank GW Mont Fank Int Sec O Fank Pipe Vap FANK Fipe GW FOO Substanc FOO Pipe Mate FOO Pipe Sec FOO Pipe Typ	yulated: y: apacity: stalled: osed: Status: : ary Mat: donitor: nitor: Valled: Cont: p Mntr: y Cce: terial: canta: pe:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False False False False False False False False False False False False Salse F	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO Pipe TCO Pipe Pipe LD I TCO Spil	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: and Mntr: Il Capacity: Il Material: Il Sec Mat: Il Comment: Interstitialdbl Il Tight Test: Il LD Other: Not Listed:	False False 1/1/1900 False False True False False True False False False False False False False False False	
Tank Alternate Tank Status: Tank Fed Reg Tank AST: Tank Stand By Tank Date Ins Tank Date Ins Tank Glosure Tank Seconda Tank Seconda Tank GW Mon Tank Int Dbl V Tank Int Sec C Tank Pipe GW TO Capacity TO CO Substand TO Pipe Mate TO Pipe Sec TO Pipe Typ TO Overfill F	y: apacity: stalled: osed: Status: : ary Mat: donitor: nitor: V Mntr: V Mntr: ce: terial: c Mat: oe: Protect:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False F	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO CO Pipe Pipe LD I TCO Spill	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: ll Type: ll Material: ll Comment: nterstitialdbl ll Tight Test: ll LD Other: Not Listed:	False False 1/1/1900 False False True False False True False False False False False False False False False	
Fank Alternate Fank Status: Fank Fed Reg Fank AST: Fank Stand B Fank Total Ca Fank Date Ins Fank Closure Fank Material: Fank Seconda Fank Wapor M Fank GW Mon Fank Int Dbl V Fank Int Sec C Fank Pipe Vap FANK Pipe GW FOO Substance FOO Pipe Mate FOO Pipe Sec FOO Pipe Typ FOO Overfill F	y: apacity: stalled: osed: Status: : ary Mat: donitor: nitor: V Mntr: V Mntr: ce: terial: c Mat: oe: Protect:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False F	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO CO Pipe Pipe LD I TCO Spil	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Other: e LD Other: lusted: e LD Other: lusted:	False False 1/1/1900 False False True False False True False False False False False False False False False	
Tank Alternate Tank Status: Tank Fed Reg Tank AST: Tank Stand B Tank Total Ca Tank Date Ins Tank Date Ins Tank Glosure Tank Waterial Tank Seconda Tank Offer Tank Int Dbl V Tank Int Sec O Tank Pipe Vap TCO Capacity TCO Substanc TCO Pipe Mat TCO Pipe Sec TCO Pipe Typ TCO Overfill F TCO Spill Pro	y: apacity: stalled: osed: Status: : ary Mat: donitor: nitor: V Mntr: V Mntr: ce: terial: c Mat: oe: Protect:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False F	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO CO Pipe Pipe LD I TCO Spil	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Other: e LD Other: lusted: lus	False False 1/1/1900 False False True False False True False False False False False False False False False	
Tank Alternate Tank Status: Tank Fed Reg Tank AST: Tank Stand B Tank Total Ca Tank Date Ins Tank Closure Tank Material Tank Seconda Tank Wapor M Tank Int Dbl V Tank Int Sec O Tank Pipe GW TCO Capacity TCO Pipe Mat TCO Pipe Mat TCO Pipe Sec TCO Pipe Typ TCO Spill Pro TCO Spill Pro TCO ATG:	y: apacity: stalled: osed: Status: : ary Mat: donitor: nitor: V Mntr: V Mntr: ce: terial: c Mat: oe: Protect:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False F	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO Pipe Pipe LD I TCO Spil TC	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Other: e LD Other: lusted: lus	False False 1/1/1900 False False True False False True False False False False False False False False False	
Tank No: Tank Alternative Tank Status: Tank Fed Reg Tank Total Cale Tank Date Insert Tank Date Insert Tank Material Tank Seconds Tank Tank Seconds Tank Wapor More Tank Int Seconds Tank Int Seconds Tank Int Seconds Tank Int Seconds Tank Pipe GW TOO Capacity TOO Substand TOO Pipe Materico Overfill For Too ATG: TOO MTG:	y: apacity: stalled: ssed: status: l: ary Mat: lonitor: Nalled: Cont: p Mntr: V Mntr: ce: terial: c Mat: pe: Protect:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False F	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO Pipe Pipe LD I TCO Spil TCO Sump Da	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Defer: Not Listed: erfill Type: ual Mntr: Il Capacity: Il Material: Il Sec Mat: Il Comment: Interstitialdbl Il Tight Test: Il LD Other: Not Listed: stall Dt: ucket Mat: Dbucketseconerial:	False False 1/1/1900 False False True False False True False False False 7 False False 1/1/1900	
Tank Alternate Tank Status: Tank Fed Reg Tank AST: Tank Stand B Tank Total Ca Tank Date Ins Tank Date Clo Tank Closure Tank Seconda Tank Seconda Tank Wapor M Tank Seconda Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Pipe Mat TCO Pipe Mat TCO Pipe Sec TCO Pipe Typ TCO Spill Pro TCO ATG: TCO MTG:	y: apacity: stalled: ssed: Status: l: any Mat: lonitor: walled: cont: p Mntr: v Mntr: ce: terial: c Mat: pe: Protect: stect:	Permanen True False False 1000 1/1/1900 10/21/1997 Tank remo Asphalt Co None False F	1 oved from grour pated or Bare S		TCO Pipe TCO Pipe TCO Pipe TCO LD I TCO LD I TCO LD I TCO Pipe Pipe LD I TCO Spil TCO Sump Da	e Tight Test: e LD Mech: e LD Elec: e Install Dt: Other: Deferred: Not Listed: e LD Other: e LD Defer: Not Listed: erfill Type: ual Mntr: np Alarm: Il Capacity: Il Material: Il Sec Mat: Il Comment: nterstitialdbl Il Tight Test: Il LD Other: Not Listed: stall Dt: ucket Mat: blucketseconerial: np Comment:	False False 1/1/1900 False False True False False True False False False 0 False False False False False False False False False 1/1/1900	

	Number Records	of Dir	ection	Distance (mi/ft)	Elev/Diff (ft)	Site		
TCO SIR:		False			TCO Sun	p LD Other:	False	
CO Pipe SIR:		False				Not Listed:	False	
CO Inventory	Ctrl:	False			TCO Con			
ank Details								
ank No:		2",="R-2				tness Test:	False	
ank Alternate	ID:	Permanently C	Out of Use		•	Tight Test:	False	
ank Status:	1-1-1	True				LD Mech:	False	
ank Fed Regul	iatea:	False False			•	LD Elec:	1/1/1900 False	
ank AST: ank Stand By:		1000			TCO FIRE	Install Dt:	False	
ank Stand By. Tank Total Capa		1/1/1900			TCO LD I		True	
ank Potal Capt Tank Date Insta	•	10/21/1991				Not Listed:	False	
ank Date Mote		Tank removed	from arou	nd		LD Other:	False	
ank Closure S		Asphalt Coate	•		•	LD Defer:	True	
ank Material:		None				Not Listed:		
ank Secondar	y Mat:	False				rfill Type:	False	
ank Vapor Moi		False			Pipe Visu	• •	False	
Tank GW Monit		False			•	p Alarm:	0	
ank Int Dbl Wa	alled:	False			•	Capacity:		
Tank Int Sec Co	ont:	False			TCO Spil	I Install Dt:		
Tank Pipe Vap l	Mntr:	False			TCO Spil	l Material:		
Tank Pipe GW I	VIntr:	1000			TCO Spil	Sec Mat:		
TCO Capacity:		Gasoline			TCO Spil	Comment:	False	
TCO Substance):	Bare Steel			•	nterstitialdbl	False	
TCO Bino Motor	rial:	None			walled:	l Tight Toots	Foloo	
「CO Pipe Mater 「CO Pipe Sec N		Safe Suction			•	l Tight Test: l LD Other:	False False	
TCO Pipe Sec II TCO Pipe Type:		False				Not Listed:	1/1/1900	
TCO Overfill Pro		False			Sump Ins		17 17 1000	
CO Spill Prote		False			•	cket Mat:		
TCO ATG:	•••	False			•	bucketsecon		
					darymate			
TCO MTG:		False				p Comment:	False	
Pipe Int DbI Wa	lled:	False				Dbl Walled:	False	
Copipeinterstit Contain:	tialsec	False			Sump Tig	ıht Test:	False	
TCO SIR:		False			TCO Sun	p LD Other:	False	
TCO Pipe SIR:		False			Sump LD	Not Listed:	False	
TCO Inventory (Ctrl:	False			TCO Con	tained:		
Tank Details								
Tank No:		4",="A-4				tness Test:	False	
ank Alternate	ID:	Currently In Us	se		•	Tight Test:	False	
Tank Status:		False			•	LD Mech:	False	
ank Fed Regul	lated:	True				LD Elec:	4/1/1990	
Tank AST:		False			•	Install Dt:	False	
Tank Stand By:		1000			TCO LD (False	
ank Total Capa	•	4/1/1990			TCO LD I		True	
ank Date Insta						Not Listed:	False	
ank Date Close		Not Listad			•	LD Other:	False	
ank Closure S	เสเนร:	Not Listed			•	LD Defer:	True	
ank Material: ank Secondary	v Mat	None False			•	Not Listed: rfill Type:	False	
ank Secondary ank Vapor Moi	•	False			Pipe Visu	• • •	False False	
ank vapor woi ank GW Monit		False				ıaı ıvınır: ıp Alarm:	raise 0	
ank GW Wont ank Int Dbl Wa		False				ip Alarili: I Capacity:	5	
ank int bbi wa ank int Sec Co		False				l Capacity: Install Dt:		
ank int Sec Co Tank Pipe Vap I		False			•	l Material:		
ank Pipe Vap I ank Pipe GW I		1000			•	Naterial. Sec Mat:		
CO Capacity:		Gasoline			•	Comment:	False	
CO Capacity. CO Substance) <i>:</i>	Not Listed			•	nterstitialdbl	False	
					walled:			
CO Pipe Mater	rial:	None				Tight Test:	False	
	lat:	Not Listed						

, ,	lumber Records		ection	Distance (mi/ft)	Elev/Diff (ft)	Site		Di
TCO Pipe Type:		False			Spill LD	Not Listed:	1/1/1900	
TCO Overfill Pro	tect:	False			Sump In			
TCO Spill Protec		False				ıcket Mat:		
TCO ATG:	,	False			Tcosum	obucketsecon		
TCO MTG:		False				np Comment:	False	
Pipe Int Dbl Wall		False			•	t Dbl Walled:	False	
Tcopipeinterstiti contain:	ialsec	False			Sump Ti	ght Test:	False	
TCO SIR:		False			TCO Sur	np LD Other:	False	
TCO Pipe SIR:		False			Sump LI	Not Listed:	False	
TCO Inventory C	etrl:	False			TCO Cor	ntained:		
Tank Details								
Tank No:		1",="R-1				htness Test:	False	
Tank Alternate II	D:	Permanently O	ut of Use			e Tight Test:	False	
Tank Status:		True			TCO Pip	e LD Mech:	False	
Tank Fed Regula	ated:	False			TCO Pip	e LD Elec:	1/1/1900	
Tank AST:		False				e Install Dt:	False	
Tank Stand By:		1000			TCO LD		False	
Tank Cland By. Tank Total Capa	city.	1/1/1900				Deferred:	True	
Tank Date Install	•	10/21/1991				Not Listed:	False	
Tank Date Mstan Tank Date Close		Tank removed	from group	d		e LD Other:	False	
		Asphalt Coated						
Tank Closure St	atus:	•	i oi baie Si	leei	•	e LD Defer:	True	
Tank Material:		None			•	Not Listed:		
Tank Secondary		False				erfill Type:	False	
Tank Vapor Mon		False			Pipe Vis		False	
Tank GW Monito	or:	False				np Alarm:	0	
Tank Int Dbl Wal	lled:	False			TCO Spi	ll Capacity:		
Tank Int Sec Cor	nt:	False			TCO Spi	ll Install Dt:		
Tank Pipe Vap M	Intr:	False			TCO Spi	ll Material:		
Tank Pipe GW M		1000			TCO Spi	Il Sec Mat:		
TCO Capacity:		Gasoline			•	Il Comment:	False	
TCO Substance:	•	Bare Steel				nterstitialdbl	False	
TCO Pipe Materi	ial·	None				ll Tight Test:	False	
TCO Pipe Sec M		Safe Suction			•	I LD Other:	False	
TCO Pipe Type:	aı.	False			•	Not Listed:	1/1/1900	
TCO Pipe Type. TCO Overfill Pro	40.04.				Sump In		17171900	
		False			•			
TCO Spill Protec	et:	False			•	ıcket Mat:		
TCO ATG:		False				obucketsecon		
тсо мта:		False			darymat	np Comment:	False	
						•		
Pipe Int Dbl Wall		False				Dbl Walled:	False	
Tcopipeinterstiti contain:	ialsec	False			Sump Ti	ght Test:	False	
TCO SIR:		False				np LD Other:	False	
TCO Pipe SIR: TCO Inventory C	ctrl:	False False			Sump LL TCO Cor	Not Listed: ntained:	False	
1 10	0 of 12	SE		0.00 /	2,236.96 /	Stanley Mu	nicipal Airport	
<u> -</u>	0 01 12	02		0.00	-2	6135 82 Ave Stanley ND	e NW	AST
Registration No: Facility Status: Zip4:	•	1203 Activ						
Tank Details								
Tank Tuna:		AST			Tonk Des	duct:	Other	
Tank Type:					Tank Pro		Other	
Tank Status:	_	Active			Tank Siz		12000	Landard aller 1
Tank Install Date	ə:	7/1/2021			Tank No	tes:	New Tank and retail sa	
Tank Inactive De							equipment for Jet A fue	ll .

Tank Inactive Date:

DΒ Map Key Number of Direction Distance Elev/Diff Site Records (mi/ft) (ft)

Tank Product:

Tank Size:

Tank Notes:

Tank Product:

Tank Size:

Tank Notes:

Tank Product:

Tank Sequence No: 4

Tank Compartmentalized: **FALSE**

Tank Details

AST Tank Type: Tank Status: Active Tank Install Date: 1/1/2008

Tank Inactive Date:

Tank Sequence No:

Tank Compartmentalized: **FALSE**

Tank Details

AST Tank Type: Tank Status: Active

5/20/2019 Tank Install Date:

Tank Inactive Date:

Tank Sequence No: Tank Compartmentalized: **FALSE**

Tank Details

Tank Type: AST Tank Status: Active Tank Install Date: 5/20/2019

Tank Inactive Date:

Tank Sequence No: Tank Compartmentalized: **FALSE**

Tank Size: Tank Notes:

11 of 12 1

SE

0.00/ 0.00

2,236.96/ -2

STANLEY AIRPORT AUTHORITY **PO BOX 328**

Gasoline

10000

Gasoline

100 LL Avgas

6000

Other

Empty tank noted 4-19-2023

500

STANLEY ND 58784

Registry ID:

110063061715 FIPS Code:

HUC Code: 10110101 Site Type Name: **STATIONARY**

Location Description:

Supplemental Location:

Create Date: 16-DEC-14

Update Date:

Interest Types: STATE MASTER

SIC Codes: 4512

AIR TRANSPORTATION, SCHEDULED SIC Code Descriptions:

NAICS Codes: 481000 NAICS Code Descriptions:

Conveyor:

ND-FP

Federal Facility Code: Federal Agency Name: Tribal Land Code: Tribal Land Name:

Congressional Dist No:

Census Block Code: 380619552001172

EPA Region Code: 08

County Name: **MOUNTRAIL**

US/Mexico Border Ind:

Latitude: 48.300508 Longitude: -102.398194

Reference Point: **Coord Collection Method:**

Accuracy Value:

Datum: NAD83

Source:

erisinfo.com | Environmental Risk Information Services

FINDS/FRS

DΒ Map Key Number of Direction Distance Elev/Diff Site Records (mi/ft) (ft)

Facility Detail Rprt URL:

Data Source:

Program Acronyms:

ND-FP:135012

https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110063061715

Facility Registry Service - Single File

12 of 12 SE 0.00/ 2,236.96 / STANLEY MUNICIPAL AIRPORT 1

0.00 **AUTHORITY**

6107 82ND AVENUE NORTHWEST

FINDS/FRS

UNKNOWN ND 58000

Registry ID: 110070617400

FIPS Code: **HUC Code:**

Site Type Name: **STATIONARY** Location Description: **VARIOUS** Supplemental Location:

06-OCT-19 Create Date: Update Date:

Interest Types: SIC Codes: SIC Code Descriptions:

ICIS-NPDES NON-MAJOR, STORM WATER CONSTRUCTION

NAICS Codes:

NAICS Code Descriptions:

Conveyor:

Federal Facility Code: Federal Agency Name: Tribal Land Code: Tribal Land Name: Congressional Dist No: Census Block Code: EPA Region Code:

80

County Name:

US/Mexico Border Ind:

Latitude: Longitude: Reference Point:

Coord Collection Method:

Accuracy Value:

Datum:

Source:

Facility Detail Rprt URL:

Facility Registry Service - Single File

Data Source:

NAD83

Program Acronyms: NPDES:NDR108720

> 2 1 of 4 **ENE** 0.02 / 2,236.22 / Holiday Stationstore #432 UST 402 Westview Ln 91.18 -3 Stanley ND 58784- ND

https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070617400

Facility ID: 10878 Cass Oil, LLC Owner Name: Facility Status: Active Owner Address: 1130 W Warner Rd Facility County: TEMPE AZ 85284-Mountrail Owner City: 48.306317 Facility Phone: 7016284330

Latitude: Longitude: -102.402689

Tank Details

28

Tank No: 4",="5 TCO Tightness Test: False Tank Alternate ID: Currently In Use TCO Pipe Tight Test: False Tank Status: TCO Pipe LD Mech: True True TCO Pipe LD Elec: Tank Fed Regulated: False 10/15/2013

Мар Кеу	Number Records		Distance (mi/ft)	Elev/Diff (ft)	Site		DE
Tank AST:		False		TCO Pipe	Install Dt:	False	
Tank Stand By	y:	20000		TCO LD C		False	
Tank Total Ca	•	10/15/2013		TCO LD E		False	
Tank Date Ins				TCO LD N	lot Listed:	False	
Tank Date Clo	sed:			TCO Pipe	LD Other:	False	
Tank Closure	Status:	Fiberglass Reinforced Pla	stic	•	LD Defer:	False	
Tank Material:	:	Double-Walled		Pipe LD N	lot Listed:	Automatic shutoff (flapper)	
Tank Seconda	ary Mat:	False		TCO Over	fill Type:	True	
Tank Vapor Me	onitor:	False		Pipe Visu	al Mntr:	False	
Tank GW Mon	itor:	True		Pipe Sum	p Alarm:	0	
Tank Int Dbl V	Valled:	False		TCO Spill	Capacity:	10/15/2013	
Tank Int Sec C	Cont:	False		TCO Spill	Install Dt:	Plastic	
Tank Pipe Vap	o Mntr:	False		TCO Spill	Material:	None	
Tank Pipe GW	/ Mntr:	20000		TCO Spill	Sec Mat:		
TCO Capacity	r:	Diesel or B20		TCO Spill	Comment:	False	
TCO Substand	ce:	Flexible Plastic		Tcospillir walled:	terstitialdbl	True	
TCO Pipe Mate	erial:	Double-Walled		TCO Spill	Tight Test:	False	
TCO Pipe Sec		Pressurized			LD Other:	False	
TCO Pipe Typ		True		•	lot Listed:	10/15/2013	
TCO Overfill P		True		Sump Ins		Fiberglass	
TCO Spill Pro		True		Sump Bu		None	
TCO ATG:		False		•	bucketsecon		
				darymate			
TCO MTG:		True			p Comment:	False	
Pipe Int DbI W	/alled:	False			Dbl Walled:	True	
Tcopipeinters contain:		False		Sump Tig		False	
TCO SIR:		False		TCO Sum	p LD Other:	False	
TCO Pipe SIR:	<i>-</i>	False			Not Listed:	True	
TCO Inventory		False		TCO Con			
Tank Details							
Tank No:		1",="1		TCO Tigh	tness Test:	False	
Tank Alternate	e ID:	Currently In Use			Tight Test:	False	
Tank Status:		True		•	LD Mech:	True	
Tank Fed Reg	ulated:	False		TCO Pipe		9/11/2013	
Tank AST:		False		•	Install Dt:	False	
Tank Stand By	v:	20000		TCO LD C		False	
Tank Total Ca	•	9/11/2013		TCO LD D		False	
Tank Date Ins					lot Listed:	False	
Tank Date Clo					LD Other:	False	
Tank Closure		Fiberglass Reinforced Pla	stic		LD Defer:	False	
Tank Material:		Double-Walled		•	lot Listed:	Automatic shutoff (flapper)	
Tank Seconda		False		TCO Over		True	
	-				• •	False	
Tank Vapor M	onitor:	False		Pipe Visu	ai Mntr:		
•		False True		Pipe Visu Pipe Sum		0	
Tank GW Mon	itor:			Pipe Sum		0 9/11/2013	
Tank GW Mon Tank Int Dbl W	nitor: Valled:	True		Pipe Sum TCO Spill	p Alarm: Capacity:		
Tank GW Mon Tank Int Dbl V Tank Int Sec C	nitor: Valled: Cont:	True False		Pipe Sum TCO Spill TCO Spill	p Alarm: Capacity: Install Dt:	9/11/2013	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap	nitor: Valled: Cont: o Mntr:	True False False		Pipe Sum TCO Spill TCO Spill TCO Spill	p Alarm: Capacity: Install Dt: Material:	9/11/2013 Plastic	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW	nitor: Valled: Cont: o Mntr: / Mntr:	True False False False 20000		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill	p Alarm: Capacity: Install Dt: Material: Sec Mat:	9/11/2013 Plastic None	
Tank GW Mon Tank Int DbI W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity	nitor: Valled: Cont: o Mntr: / Mntr: ':	True False False False		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spill	p Alarm: Capacity: Install Dt: Material:	9/11/2013 Plastic	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Substand	nitor: Valled: Cont: o Mntr: / Mntr: :: ce:	True False False False 20000 Gasoline or E10		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spillir walled:	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: iterstitialdbl	9/11/2013 Plastic None False	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Substand	nitor: Valled: Cont: o Mntr: / Mntr: :: ce:	True False False False 20000 Gasoline or E10 Flexible Plastic		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spillir walled: TCO Spill	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: iterstitialdbl	9/11/2013 Plastic None False True	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Substand TCO Pipe Mate TCO Pipe Sec	nitor: Valled: Cont: O Mntr: / Mntr: :: ce: erial:	True False False False 20000 Gasoline or E10 Flexible Plastic Double-Walled		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spillir walled: TCO Spill TCO Spill	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: iterstitialdbl Tight Test: LD Other:	9/11/2013 Plastic None False True False False False	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Substanc TCO Pipe Mate TCO Pipe Sec TCO Pipe Type	nitor: Valled: Cont: O Mntr: / Mntr: :: ce: erial: e: Mat:	True False False False 20000 Gasoline or E10 Flexible Plastic Double-Walled Pressurized		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spillir walled: TCO Spill Spill LD N	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: iterstitialdbl Tight Test: LD Other: lot Listed:	9/11/2013 Plastic None False True False False 9/11/2013	
Tank GW Mon Tank Int Dbl W Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Substand TCO Pipe Mate TCO Pipe Sec TCO Pipe Type TCO Overfill F	nitor: Valled: Cont: O Mntr: / Mntr: :: ce: erial: e: Protect:	True False False False 20000 Gasoline or E10 Flexible Plastic Double-Walled Pressurized True		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spillir walled: TCO Spill TCO Spill Spill LD N Sump Ins	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: Iterstitialdbl Tight Test: LD Other: Itel Listed: Itel Dt:	9/11/2013 Plastic None False True False False False	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Substanc TCO Pipe Mate TCO Pipe Sec TCO Pipe Typ TCO Overfill P	nitor: Valled: Cont: O Mntr: / Mntr: :: ce: erial: e: Protect:	True False False False 20000 Gasoline or E10 Flexible Plastic Double-Walled Pressurized True True		Pipe Sum TCO Spill Spill LD N Sump Ins Sump Bu Tcosump	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: Iterstitialdbl Tight Test: LD Other: Iot Listed: tall Dt: cket Mat: bucketsecon	9/11/2013 Plastic None False True False False 9/11/2013 Fiberglass	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Substand TCO Pipe Mate TCO Pipe Sec TCO Pipe Typ TCO Overfill F TCO Spill Prot TCO ATG:	nitor: Valled: Cont: O Mntr: / Mntr: :: ce: erial: e: Protect:	True False False False 20000 Gasoline or E10 Flexible Plastic Double-Walled Pressurized True True True False		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spill Tcospillir walled: TCO Spill TCO Spill Spill LD N Sump Ins Sump Bu Tcosump	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: Iterstitialdbl Tight Test: LD Other: lot Listed: tall Dt: cket Mat: bucketsecon	9/11/2013 Plastic None False True False False 9/11/2013 Fiberglass None	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Substanc TCO Pipe Mate TCO Pipe Sec TCO Pipe Type TCO Overfill F TCO Spill Prot TCO ATG:	nitor: Valled: Cont: O Mntr: / Mntr: :: ce: erial: Mat: e: Protect:	True False False False 20000 Gasoline or E10 Flexible Plastic Double-Walled Pressurized True True True False True False		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spill Tcospillir walled: TCO Spill TCO Spill Spill LD N Sump Ins Sump Bu Tcosump darymate TCO Sum	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: Iterstitialdbl Tight Test: LD Other: Iot Listed: tall Dt: cket Mat: bucketsecon rial: p Comment:	9/11/2013 Plastic None False True False False 9/11/2013 Fiberglass None False	
Tank GW Mon Tank Int Dbl W Tank Int Sec C Tank Pipe Vap Tank Pipe GW TCO Capacity TCO Pipe Mate TCO Pipe Sec TCO Pipe Type TCO Overfill F TCO Spill Prot TCO ATG: TCO MTG: Pipe Int Dbl W Tcopipeinters	nitor: Valled: Cont: O Mntr: / Mntr: :: ce: erial: Mat: ee: Protect: tect:	True False False False 20000 Gasoline or E10 Flexible Plastic Double-Walled Pressurized True True True False		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spill TCO Spill Tcospillir walled: TCO Spill TCO Spill Spill LD N Sump Ins Sump Bu Tcosump darymate TCO Sum	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: Iterstitialdbl Tight Test: LD Other: Itot Listed: Itall Dt: Iterstitial Dt: Iterst	9/11/2013 Plastic None False True False False 9/11/2013 Fiberglass None	
Tank Vapor Marank GW Mon Tank Int Dbl W Tank Int Sec Control Tank Pipe GW TCO Capacity TCO Substance TCO Pipe Material TCO Spill Professional TCO ATG: TCO MTG: Pipe Int Dbl W Tcopipeinters contain: TCO SIR:	nitor: Valled: Cont: O Mntr: / Mntr: :: ce: erial: Mat: ee: Protect: tect:	True False False False 20000 Gasoline or E10 Flexible Plastic Double-Walled Pressurized True True True False True False		Pipe Sum TCO Spill TCO Spill TCO Spill TCO Spillir Walled: TCO Spill TCO Spill Spill LD N Sump Ins Sump Bu Tcosump darymate TCO Sum Sump Int Sump Int	p Alarm: Capacity: Install Dt: Material: Sec Mat: Comment: Iterstitialdbl Tight Test: LD Other: Itot Listed: Itall Dt: Iterstitial Dt: Iterst	9/11/2013 Plastic None False True False False 9/11/2013 Fiberglass None False True	

TCO Inventory Ctrl: False TCO Contained:

Tank Details

Tank No: 2",="2 A/B TCO Tightness Test: False False Tank Alternate ID: Currently In Use TCO Pipe Tight Test: Tank Status: True TCO Pipe LD Mech: True Tank Fed Regulated: False TCO Pipe LD Elec: 9/11/2013 TCO Pipe Install Dt: False Tank AST: False TCO LD Other: Tank Stand By: 20000 False Tank Total Capacity: 9/11/2013 TCO LD Deferred: False Tank Date Installed: TCO LD Not Listed: False Tank Date Closed: TCO Pipe LD Other: False

TCO Pipe LD Defer: Fiberglass Reinforced Plastic Tank Closure Status: False Double-Walled Automatic shutoff (flapper) Tank Material: Pipe LD Not Listed:

Tank Secondary Mat: False TCO Overfill Type: True Tank Vapor Monitor: False Pipe Visual Mntr: False Tank GW Monitor: True Pipe Sump Alarm:

False TCO Spill Capacity: 9/11/2013 Tank Int Dbl Walled: Tank Int Sec Cont: False TCO Spill Install Dt: **Plastic** Tank Pipe Vap Mntr: False TCO Spill Material: None Tank Pipe GW Mntr: 12000 TCO Spill Sec Mat:

TCO Capacity: Gasoline or E10 TCO Spill Comment: False TCO Substance: Flexible Plastic **Tcospillinterstitialdbl** True

walled:

TCO Spill Tight Test: TCO Pipe Material: Double-Walled False TCO Pipe Sec Mat: Pressurized TCO Spill LD Other: False TCO Pipe Type: Spill LD Not Listed: 9/11/2013 True TCO Overfill Protect: True Sump Install Dt: Fiberglass TCO Spill Protect: True Sump Bucket Mat: None

TCO ATG: False Tcosumpbucketsecon

darvmaterial: TCO MTG: True

TCO Sump Comment: False Pipe Int Dbl Walled: False Sump Int Dbl Walled: True False Sump Tight Test: False **Tcopipeinterstitialsec**

contain: TCO SIR: False TCO Sump LD Other: False TCO Pipe SIR: False Sump LD Not Listed: True

TCO Inventory Ctrl: TCO Contained: False

Tank Details

TCO Tightness Test: False Tank No: 3",="4 Tank Alternate ID: Currently In Use TCO Pipe Tight Test: False Tank Status: TCO Pipe LD Mech: True True Tank Fed Regulated: False TCO Pipe LD Elec: 9/11/2013 Tank AST: False TCO Pipe Install Dt: False Tank Stand By: 20000 TCO LD Other: False Tank Total Capacity: 9/11/2013 TCO LD Deferred: False

Tank Date Installed: TCO LD Not Listed: False Tank Date Closed: TCO Pipe LD Other: False

Tank Closure Status: Fiberglass Reinforced Plastic TCO Pipe LD Defer: False Tank Material: Double-Walled Pipe LD Not Listed: Automatic shutoff (flapper)

Tank Secondary Mat: False TCO Overfill Type: Tank Vapor Monitor: False Pipe Visual Mntr: False Tank GW Monitor: True Pipe Sump Alarm: O

9/11/2013 Tank Int Dbl Walled: False TCO Spill Capacity: Plastic False TCO Spill Install Dt: Tank Int Sec Cont: Tank Pipe Vap Mntr: False TCO Spill Material: None TCO Spill Sec Mat: Tank Pipe GW Mntr: 20000

TCO Capacity: Diesel or B20 TCO Spill Comment: False TCO Substance: Flexible Plastic Tcospillinterstitialdbl True

walled: TCO Pipe Material: Double-Walled TCO Spill Tight Test: False Pressurized TCO Spill LD Other: TCO Pipe Sec Mat: False TCO Pipe Type: True Spill LD Not Listed: 9/11/2013

TCO Overfill Protect: True Sump Install Dt: Fiberglass

Map Key	Number Records	of Di	rection	Distance (mi/ft)	Elev/Diff (ft)	Site		DB
TCO Spill Prot	tect:	True			Sump B	ucket Mat:	None	
TCO ATG:		False			•	pbucketsecon		
					darymat	erial:		
TCO MTG:		True			TCO Sui	np Comment:	False	
Pipe Int Dbl W	/alled:	False			Sump In	t Dbl Walled:	True	
Tcopipeinters: contain:	titialsec	False			Sump Ti	ght Test:	False	
TCO SIR:		False			TCO Sui	np LD Other:	False	
TCO Pipe SIR:	:	False			Sump LI	Not Listed:	True	
TCO Inventory	/ Ctrl:	False			TCO Coi	ntained:		
Tank Details								
Tank No:	- 10-	2",="2 A/B	laa			htness Test:	False	
Tank Alternate	e ID:	Currently In L	Jse			e Tight Test:	False True	
Tank Status:	ulotod.	True				e LD Mech:	9/11/2013	
Tank Fed Reg	uiatea:	False				e LD Elec:		
Tank AST:		False 20000			•	e Install Dt:	False	
Tank Stand By					TCO LD		False	
Tank Total Cap		9/11/2013				Deferred:	False	
Tank Date Inst						Not Listed:	False False	
Tank Date Clo		Cibarrilana Da	informed Disc	4: 4	•	e LD Other:		
Tank Closure		Fiberglass Re		STIC	•	e LD Defer:	False	
Tank Material:		Double-Walle	ea		•	Not Listed:	Automatic shutoff (flapper)	
Tank Seconda	•	False				erfill Type:	True	
Tank Vapor Me		False			•	ual Mntr:	False	
Tank GW Mon		True			•	np Alarm:	0	
Tank Int Dbl W		False			•	II Capacity:	9/11/2013	
Tank Int Sec C		False				ll Install Dt:	Plastic	
Tank Pipe Vap		False			•	II Material:	None	
Tank Pipe GW		8000	.40		•	II Sec Mat:	False	
TCO Capacity		Gasoline or E			•	Il Comment:	False	
TCO Substant	ce:	Fiberglass Re		STIC	ı cospiili walled:	interstitialdbl	True	
TCO Pipe Mate		Double-Walle	ed		TCO Spi	ll Tight Test:	False	
TCO Pipe Sec	Mat:	Pressurized			TCO Spi	II LD Other:	False	
TCO Pipe Type	e:	True			Spill LD	Not Listed:	9/11/2013	
TCO Overfill P		True			Sump In	stall Dt:	Fiberglass	
TCO Spill Prot	tect:	True			Sump B	ucket Mat:	None	
TCO ATG:		False			Tcosum _i darymat	obucketsecon erial:		
TCO MTG:		True			TCO Sui	np Comment:	False	
Pipe Int Dbl W	/alled:	False			Sump In	t Dbl Walled:	True	
Tcopipeinters	titialsec	False			Sump Ti	ght Test:	False	
TCO SIR:		False			TCO Sui	np LD Other:	False	
TCO Pipe SIR:		False				D Not Listed:	True	
TCO Inventory		False			TCO Coi			
<u>2</u>	2 of 4	EN	NE .	0.02 / 91.18	2,236.22 / -3	HOLIDAY ST 402 WESTVI STANLEY N		FINDS/FRS
Registry ID:			0058241898					
FIPS Code:		380						
HUC Code:			10101					
Site Type Nam		STA	ATIONARY					
Location Desc	•							
Supplemental	Location:							
Create Date:			MAR-14					
Update Date:			JAN-15					
Interest Types	S:		ATE MASTEF	₹				
SIC Codes:		554						
SIC Code Des	•	GA	SOLINE SER	VICE STATIONS				
NAICS Codes:								
NAICS Code D	Description							
Convevor:		ND	-FP					

ND-FP

Conveyor:

Map Key Number of Direction Distance Elev/Diff Site DB
Records (mi/ft) (ft)

Federal Facility Code: Federal Agency Name: Tribal Land Code: Tribal Land Name: Congressional Dist No:

Congressional Dist No: 00

Census Block Code: 380619552001172

EPA Region Code: 08
County Name: MOUNTRAIL

 US/Mexico Border Ind:

 Latitude:
 48.306317

 Longitude:
 -102.402689

Reference Point: Coord Collection Method:

Accuracy Value:

Datum: NAD83

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110058241898

Data Source: Facility Registry Service - Single File

Program Acronyms:

ND-FP:13151

2 3 of 4 ENE 0.02/ 2,236.22/ CASH WISE FOODS - STANLEY RCRA VSQG

91.18 -3 3047

406 WESTVIEW LN STANLEY ND 58784

Order No: 23101200256

EPA Handler ID: NDR000014696

Gen Status Universe: VSG

Contact Name: RUSSELL THYEN

Contact Address: 406, WESTVIEW LN,, STANLEY, ND, 58784, US

Contact Phone No and Ext: 320-203-6313

Contact Email: RUSSELL.THYEN@COBORNSINC.COM

Contact Country: US

 County Name:
 MOUNTRAIL

 EPA Region:
 08

 Land Type:
 Private

 Receive Date:
 20190911

 Location Latitude:
 48.307143

 Location Longitude:
 -102.40298

Violation/Evaluation Summary

Note: NO RECORDS: As of Jul 2023, there are no Compliance Monitoring and Enforcement (violation) records

associated with this facility (EPA ID).

Handler Summary

Importer Activity: No Mixed Waste Generator: No Transporter Activity: Nο Transfer Facility: No Onsite Burner Exemption: No Furnace Exemption: Nο **Underground Injection Activity:** No Commercial TSD: No Used Oil Transporter: No Used Oil Transfer Facility: No Used Oil Processor: Nο **Used Oil Refiner:** No **Used Oil Burner:** No **Used Oil Market Burner:** No Used Oil Spec Marketer: No

DΒ Map Key Number of Direction Distance Elev/Diff Site Records (mi/ft) (ft)

Hazardous Waste Handler Details

Sequence No:

20190911 Receive Date:

Handler Name: CASH WISE FOODS - STANLEY 3047

Federal Waste Generator Code:

Very Small Quantity Generator Generator Code Description:

Source Type: Notification

Waste Code Details

D001 Hazardous Waste Code:

Waste Code Description: **IGNITABLE WASTE**

Hazardous Waste Code:

CORROSIVE WASTE Waste Code Description:

Hazardous Waste Code: D003

REACTIVE WASTE Waste Code Description:

Owner/Operator Details

Owner/Operator Ind: **Current Owner** Street No: 1921

Street 1: COBORN BLVD Type: Private COBORN'S INC. Street 2: Name: City: SAINT CLOUD

Date Became Current: 20190911

Date Ended Current:

Phone:

Zip Code: 56302 Source Type: Notification

Owner/Operator Ind: **Current Operator** Street No: 1921 Street 1: COBORN BLVD

Type: Private COBORN'S INC.

Name:

Date Became Current: 20190911

Date Ended Current:

Phone: Source Type: Notification

SAINT CLOUD City:

MNUS

State: MN US Country: Zip Code: 56302

CASH WISE FOODS - STANLEY 2 4 of 4 **ENE** 0.02/ 2,236.22 / FINDS/FRS 3047 91.18 -3

406 WESTVIEW LN

State:

Country:

Street 2:

STANLEY ND 58784

Order No: 23101200256

Registry ID: 110070664995 FIPS Code: 38061 **HUC Code:** 10110101 **STATIONARY** Site Type Name:

Location Description:

Supplemental Location:

Create Date: 26-NOV-19

Update Date:

VSQG Interest Types:

SIC Codes:

SIC Code Descriptions:

NAICS Codes:

NAICS Code Descriptions:

Conveyor: **RCRAINFO**

Federal Facility Code: Federal Agency Name: Tribal Land Code: Tribal Land Name:

Congressional Dist No: 00

Census Block Code: 380619552001172

EPA Region Code: 08

County Name: **MOUNTRAIL** Map Key Number of Direction Distance Elev/Diff Site DB
Records (mi/ft) (ft)

US/Mexico Border Ind:

 Latitude:
 48.307143

 Longitude:
 -102.40298

Reference Point: ENTRANCE POINT OF A FACILITY OR STATION Coord Collection Method: GDT-ADDRESS MATCHING (GEOCODING)

Accuracy Value:

Datum: NAD83

Source:

Facility Detail Rprt URL: https://ofmpub.epa.gov/frs_public2/fii_query_detail.disp_program_facility?p_registry_id=110070664995

Data Source: Facility Registry Service - Single File

RCRAINFO:NDR000014696

Program Acronyms:

3 1 of 1 NE 0.11/ 2,234.32/ TRACTOR SUPPLY #1813 RCRA VSQG 601.85 -5 506 WESTVIEW LANE

STANLEY ND 58784

Order No: 23101200256

EPA Handler ID: NDR000011460

Gen Status Universe: VSG

Contact Name: PAT PERRY WERNEIWSKI

Contact Address: 5401, VIRGINIA WAY,, BRENTWOOD, TN, 37027, US

Contact Phone No and Ext: 612-210-7176

Contact Email: HAZMAT@TRACTORSUPPLY.COM

Contact Country: US

County Name: MOUNTRAIL

 EPA Region:
 08

 Land Type:
 Private

 Receive Date:
 20220429

 Location Latitude:
 48.30654

 Location Longitude:
 -102.40259

Violation/Evaluation Summary

Note: NO RECORDS: As of Jul 2023, there are no Compliance Monitoring and Enforcement (violation) records

associated with this facility (EPA ID).

Handler Summary

Importer Activity: No Mixed Waste Generator: Nο Transporter Activity: No Transfer Facility: No Onsite Burner Exemption: No Furnace Exemption: No **Underground Injection Activity:** No Commercial TSD: No Used Oil Transporter: No Used Oil Transfer Facility: No **Used Oil Processor:** No **Used Oil Refiner:** Nο **Used Oil Burner:** No Used Oil Market Burner: No Used Oil Spec Marketer: Nο

Hazardous Waste Handler Details

Sequence No:

Receive Date: 20140519

Handler Name: TRACTOR SUPPLY #1813

Federal Waste Generator Code:

Generator Code Description: Very Small Quantity Generator

Source Type: Notification

Map Key Number of Direction Distance Elev/Diff Site DB
Records (mi/ft) (ft)

Waste Code Details

Hazardous Waste Code: D001

Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002

Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: F005

Waste Code 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

Order No: 23101200256

SOLVENTS AND SPENT SOLVENT MIXTURES.

Hazardous Waste Handler Details

Sequence No:

Receive Date: 20220429

Handler Name: TRACTOR SUPPLY #1813

Federal Waste Generator Code:

Generator Code Description: Very Small Quantity Generator

Source Type: Notification

Waste Code Details

Hazardous Waste Code: D001

Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D002

Waste Code Description: CORROSIVE WASTE

Hazardous Waste Code: D004
Waste Code Description: ARSENIC

Hazardous Waste Code:D005Waste Code Description:BARIUM

Hazardous Waste Code: D006
Waste Code Description: CADMIUM

Hazardous Waste Code: D007

Waste Code Description: CHROMIUM

Hazardous Waste Code: D008
Waste Code Description: LEAD

Hazardous Waste Code: D009
Waste Code Description: MERCURY

Hazardous Waste Code:D010Waste Code Description:SELENIUM

Hazardous Waste Code:D011Waste Code Description:SILVER

Hazardous Waste Code: D014

Waste Code Description: METHOXYCHLOR (1,1,1-TRICHLORO-2,2-BIS [P-METHOXYPHENYL] ETHANE)

Hazardous Waste Code: D016

Waste Code Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Hazardous Waste Code: D018
Waste Code Description: BENZENE

Number of Direction Distance Elev/Diff Site DB Map Key Records (mi/ft) (ft)

Hazardous Waste Code: D026 Waste Code Description: **CRESOL**

Hazardous Waste Code: D035

METHYL ETHYL KETONE Waste Code Description:

U002 Hazardous Waste Code:

Waste Code Description: 2-PROPANONE (I) (OR) ACETONE (I)

Hazardous Waste Code:

Waste Code Description: 2,4-D, SALTS & ESTERS (OR) ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS (OR)

DICHLOROPHENOXYACETIC ACID 2,4-D

U249 Hazardous Waste Code:

Waste Code Description: ZINC PHOSPHIDE ZN3P2, WHEN PRESENT AT CONCENTRATIONS OF 10% OR LESS

Hazardous Waste Code:

Waste Code Description: CARBARYL (OR) 1-NAPHTHALENOL, METHYLCARBAMATE

Owner/Operator Details

Owner/Operator Ind: **Current Owner** Street No:

Private Street 1: **CLANCY LANE** Type: Name:

THE RICHARD LEE SIMON TRUST Street 2: Date Became Current: 20140422 City:

Date Ended Current: State:

CA US Phone: Country:

Notification 92270-4524 Source Type: Zip Code:

Owner/Operator Ind: **Current Operator** Street No: Type: Street 1: Private TRACTOR SUPPLY COMPANY Name: Street 2: Date Became Current: 20140315 City:

Date Ended Current: State:

US Phone: Country: Source Type: Notification Zip Code:

Current Owner Owner/Operator Ind: Street No:

E. LONG LAKE ROAD Type: Private Street 1:

AGREE CENTRAL, LLC Name: Street 2:

20140422 **BLOOMFIELD HILLS** Date Became Current: City: Date Ended Current: State:

248-480-0257 US Phone: Country: Source Type: Notification Zip Code: 48304

Current Operator Street No: 5401 Owner/Operator Ind:

Type: Private Street 1: VIRGINIA WAY

TRACTOR SUPPLY COMPANY Name: Street 2:

Date Became Current: 20140315 Citv: **BRENTWOOD**

Date Ended Current: State: TN 612-210-7176 US Phone: Country: Source Type: Notification Zip Code: 37027

Historical Handler Details

Receive Dt: 20140519

Generator Code Description: Very Small Quantity Generator Handler Name: TRACTOR SUPPLY #1813

2,242.16/ 4 1 of 1 **ENE** 0.12/ Mountrail Williams Electric **AST** Cooperative 627.27

6150 82nd Ave NW Stanley ND 58784

Order No: 23101200256

RANCHO MIRAGE

4708 Registration No:

Map Key Number of Direction Distance Elev/Diff Site DB Records (mi/ft) (ft)

Facility Status:

Active

Zip4:

Tank Details

Tank Type:ASTTank Status:ActiveTank Install Date:7/25/2017

Tank Inactive Date:

Tank Sequence No:

Tank Compartmentalized: FALSE

Tank Product: Diesel Tank Size: 2000

Tank Notes: 2-8-2023 Tank self-classification AST 1

Unplottable Summary

Total: 0 Unplottable sites

DB Company Name/Site Address City Zip ERIS ID Name

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

unplottable records were found that may be relevant for the search criteria.	

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21. Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

NPL NPL

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

National Priority List - Proposed:

PROPOSED NPL

Sites proposed by the United States Environmental Protection Agency (EPA), the state agency, or concerned citizens for addition to the National Priorities List (NPL) due to contamination by hazardous waste and identified by the EPA as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

<u>Deleted NPL:</u>

DELETED NPL

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. 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. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2023

SEMS List 8R Active Site Inventory:

SEM

Order No: 23101200256

The U.S. Environmental Protection Agency's (EPA) Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted. This data includes SEMS sites from the List 8R Active file as well as applicable sites from the SEMS GIS/REST file layer obtained from EPA's Facility Registry Service.

Government Publication Date: Jul 26, 2023

Inventory of Open Dumps, June 1985:

ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites: SEMS ARCHIVE

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. This data includes sites from the List 8R Archived site file.

Government Publication Date: Jul 26, 2023

<u>Comprehensive Environmental Response, Compensation and Liability Information System - CERCLIS:</u>

CERCLIS

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:

IODI

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (Al/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:

CERCLIS NFRAP

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means 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 this site on the National Priorities List (NPL). This 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 a potential NPL site

Government Publication Date: Oct 25, 2013

CERCLIS LIENS CERCLIS LIENS

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:

RCRA CORRACTS

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jul 10, 2023

RCRA non-CORRACTS TSD Facilities:

RCRA TSD

Order No: 23101200256

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by RCRA.

Government Publication Date: Jul 10, 2023

RCRA Generator List:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste. *Government Publication Date: Jul 10, 2023*

RCRA Small Quantity Generators List:

RCRA SQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Jul 10, 2023

RCRA Very Small Quantity Generators List:

RCRA VSQG

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jul 10, 2023

RCRA Non-Generators:

RCRA Info is the U.S. Environmental Protection Agency's (EPA) 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jul 10, 2023

RCRA Sites with Controls:

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Jul 10, 2023

Federal Engineering Controls-ECs:

FED ENG

This list of Engineering controls (ECs) is provided by the United States Environmental Protection Agency (EPA). ECs encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. The EC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2021 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Aug 23, 2023

Federal Institutional Controls- ICs:

FED INST

Order No: 23101200256

This list of Institutional controls (ICs) is provided by the United States Environmental Protection Agency (EPA). ICs are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site. The IC listing includes remedy component data from Superfund decision documents issued in fiscal years 1982-2021 for applicable sites on the final or deleted on the National Priorities List (NPL); and sites with a Superfund Alternative Approach (SAA) Agreement in place. The only sites included that are not on the NPL; proposed for NPL; or removed from proposed NPL, are those with an SAA Agreement in place.

Government Publication Date: Aug 23, 2023

Land Use Control Information System:

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites:

NPLIC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: May 25, 2023

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

FRNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Apr 3, 2023

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This data is provided by the United States Environmental Protection Agency (EPA) and includes Brownfield sites from the Cleanups in My Community (CIMC) web application.

Government Publication Date: Sep 13, 2022

FEMA Underground Storage Tank Listing:

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan:

FRP

This listing contains facilities that have submitted Facility Response Plans (FRPs) to the U.S. Environmental Protection Agency (EPA). Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit FRPs. Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments. This listing includes FRP facilities from an applicable EPA FOIA file and Homeland Infrastructure Foundation-Level Data (HIFLD) data file.

Government Publication Date: May 2, 2023

Delisted Facility Response Plans:

DELISTED FRP

Order No: 23101200256

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: May 2, 2023

<u>HIST GAS STATIONS</u>

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries:

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Sep 20, 2023

Petroleum Product and Crude Oil Rail Terminals:

BULK TERMINAL

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Jun 29, 2022

<u>LIEN on Property:</u> SEMS LIEN

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System (SEMS) provides Lien details on applicable properties, such as the Superfund lien on property activity, the lien property information, and the parties associated with the lien.

Government Publication Date: Jul 26, 2023

Superfund Decision Documents:

SUPERFUND ROD

This database contains a list of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include completed Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD) for active and archived sites stored in the Superfund Enterprise Management System (SEMS), along with other associated memos and files. This information is maintained and made available by the U.S. Environmental Protection Agency.

Government Publication Date: May 25, 2023

Formerly Utilized Sites Remedial Action Program:

DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

State

State Hazardous Waste Sites:

The state of North Dakota does not maintain a State Hazardous Waste Sites (SHWS) list.

Government Publication Date:

Solid Waste Landfills/Special Use Landfills:

SWF/LF

The North Dakota Department of Health's Division of Waste Management publishes lists of waste facilities, including: Transfer Stations, Industrial Waste Landfills, Inert Waste Landfills, Municipal Solid Waste Landfills, Special Waste Landfills, and Solid Waste Facilities for Treatment/Disposal of Refined Petroleum Contaminated Soils.

Government Publication Date: Jul 11, 2023

Leaking Underground Storage Tank List:

LUST

Order No: 23101200256

Leaking Underground Storage Tank (LUST) Registry made available by the North Dakota Department of Health's Underground Storage Tank (UST) Program. The LUST registry includes any site which has had a reported release.

Government Publication Date: Aug 25, 2023

Delisted Leaking Storage Tanks:

DELISTED LST

This database contains a list of leaking storage tank sites that were removed from the North Dakota Department of Health.

Government Publication Date: Aug 25, 2023

Underground Storage Tank List:

UST

UST registry maintained by the North Dakota Department of Health's UST Program. Owners and/or operators of tanks regulated under the UST program are required to notify the Division and register their tanks. The UST list does not distinguish between Aboveground (AST) or Underground Storage Tank systems.

Government Publication Date: Aug 25, 2023

Registered Aboveground Storage Tanks:

AST

List of Aboveground Storage Tank (AST) sites registered with the North Dakota Insurance Department. All owners or operators of aboveground or underground petroleum storage tanks in North Dakota are required to register their tanks with the Insurance Department's Petroleum Tank Release Compensation Fund.

Government Publication Date: Aug 15, 2023

Delisted Storage Tanks:

DTNK

This database contains a list of storage tank sites that were removed from the North Dakota Department of Health's UST Program.

Government Publication Date: Aug 25, 2023

Institutional Controls:

INST

List of sites with institutional controls made available by the State of North Dakota Department of Health's Environmental Health Section.

Government Publication Date: Jun 29, 2022

Brownfields Sites in North Dakota:

BROWNFIELDS

List of Brownfield program sites made available by the North Dakota Department of Health's Division of Waste Management Brownfields Program. The concept of the Brownfields Program is to take contaminated or potentially contaminated, underdeveloped, unproductive property and convert it into productive real estate. Brownfield sites are defined as abandoned, idled or underused industrial or commercial properties whose redevelopment is complicated by real or perceived environmental contamination.

Government Publication Date: Oct 31, 2022

Tribal

Leaking Underground Storage Tanks on Tribal/Indian Lands:

INDIAN LUST

This list of leaking underground storage tanks (LUSTs) on Tribal/Indian Lands in Region 8, which includes North Dakota, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 20, 2023

Underground Storage Tanks on Tribal/Indian Lands:

INDIAN UST

This list of underground storage tanks (USTs) on Tribal/Indian Lands in Region 8, which includes North Dakota, is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 20, 2023

Delisted Tribal Leaking Storage Tanks:

DELISTED INDIAN LST

Leaking Underground Storage Tank (LUST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian LUST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 26, 2023

Delisted Tribal Underground Storage Tanks:

DELISTED INDIAN UST

Order No: 23101200256

Underground Storage Tank (UST) facilities which once appeared on - and have since been removed from - the Regional Tribal/Indian UST lists made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Apr 26, 2023

County

No County standard environmental record sources available for this State.

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

FINDS/FRS

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Mar 2, 2023

Toxics Release Inventory (TRI) Program:

TRIS

The U.S. Environmental Protection Agency's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of toxic chemicals from U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. There are currently 770 individually listed chemicals and 33 chemical categories covered by the TRI Program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual reporting forms for each chemical. Note that the TRI chemical list does not include all toxic chemicals used in the U.S. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Oct 19, 2022

PFOA/PFOS Contaminated Sites:

PFAS NPL

This list of Superfund Sites with Per- and Polyfluoroalkyl Substances (PFAS) detections is made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data, previously the list was obtained by EPA FOIA requests. EPA's Office of Land and Emergency Management and EPA Regional Offices maintain what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment. Limitations: Detections of PFAS at National Priorities List (NPL) sites do not mean that people are at risk from PFAS, are exposed to PFAS, or that the site is the source of the PFAS. The information in the Superfund NPL and Superfund Alternative Agreement (SAA) PFAS detection site list is years old and may not be accurate today. Site information such as site name, site ID, and location has been confirmed for accuracy; however, PFAS-related information such as media sampled, drinking water being above the health advisory, or mitigation efforts has not been verified. For Federal Facilities data, the other Federal agencies (OFA) are the lead agency for their data and provided them to EPA.

Government Publication Date: Sep 14, 2023

Federal Agency Locations with Known or Suspected PFAS Detections:

PFAS FED SITES

List of Federal agency locations with known or suspected detections of Per- and Polyfluoroalkyl Substances (PFAS), made available by the U.S. Environmental Protection Agency (EPA) in their PFAS Analytic Tools data. EPA outlines that these data are gathered from several federal entities, such as the Federal Superfund program, Department of Defense (DOD), National Aeronautics and Space Administration, Department of Transportation, and Department of Energy. The dates this data was extracted for the PFAS Analytic Tools range from March 2022 to April 2023. Sites on this list do not necessarily reflect the source/s of PFAS contamination and detections do not indicate level of risk or human exposure at the site. Agricultural notifications in this data are limited to DOD sites only. At this time, the EPA is aware that this list is not comprehensive of all Federal agencies.

Government Publication Date: Apr 24, 2023

SSEHRI PFAS Contamination Sites:

PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Locations for the Known PFAS Contamination Sites are sourced from the PFAS Sites and Community Resources Map, credited to the Northeastern University's PFAS Project Lab, Silent Spring Institute, and the PFAS-REACH team. Disclaimer: The source conveys the data undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Access the following source link for the most current information: https://pfasproject.com/pfas-sites-and-community-resources/

Government Publication Date: Oct 9, 2022

National Response Center PFAS Spills:

ERNS PFAS

This Per- and Poly-Fluoroalkyl Substances (PFAS) Spills dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The National Response Center (NRC), operated by the U.S. Coast Guard, is the designated federal point of contact for reporting all oil, chemical, and other discharges into the environment, for the United States and its territories. This dataset contains NRC spill information from 1990 to the present that is restricted to records associated with PFAS and PFAS-containing materials. Incidents are filtered to include only records with a "Material Involved" or "Incident Description" related to Aqueous Film Forming Foam (AFFF). The keywords used to filter the data included "AFFF," "Fire Fighting Foam," "Aqueous Film Forming Foam," "Fire Suppressant Foam, "PFAS," "PERFL," "PFOA," "PFOS," and "Genx." Limitations: The data from the NRC website contains initial incident data that has not been validated or investigated by a federal/state response agency. Keyword searches may misidentify some incident reports that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS spills/release incidents.

Government Publication Date: Jun 17, 2023

PFAS NPDES Discharge Monitoring:

PFAS NPDES

This list of National Pollutant Discharge Elimination System (NPDES) permitted facilities with required monitoring for Per- and Polyfluoroalkyl (PFAS) Substances is made available via the U.S. Environmental Protection Agency (EPA)'s PFAS Analytic Tools. Any point-source wastewater discharger to waters of the United States must have a NPDES permit, which defines a set of parameters for pollutants and monitoring to ensure that the discharge does not degrade water quality or impair human health. This list includes NPDES permitted facilities associated with permits that monitor for Per- and Polyfluoroalkyl Substances (PFAS), limited to the years 2007 - present. EPA further advises the following regarding these data: currently, fewer than half of states have required PFAS monitoring for at least one of their permittees, and fewer states have established PFAS effluent limits for permittees. For states that may have required monitoring, some reporting and data transfer issues may exist on a state-by-state basis.

Government Publication Date: May 1, 2023

Perfluorinated Alkyl Substances (PFAS) from Toxic Release Inventory:

PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a per- or polyfluoroalkyl (PFAS) substance included in the U.S. Environmental Protection Agency's (EPA) consolidated PFAS Master List of PFAS Substances. Encompasses Toxics Release Inventory records included in the EPA PFAS Analytic Tools. The EPA's TRI database currently tracks information on disposal or releases of 770 individually listed toxic chemicals and 33 chemical categories from thousands of U.S. facilities and details about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Oct 19, 2022

Perfluorinated Alkyl Substances (PFAS) Water Quality:

PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

PFAS TSCA Manufacture and Import Facilities:

PFAS TSCA

The U.S. Environmental Protection Agency (EPA) issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. This list is specific only to TSCA Manufacture and Import Facilities with reported per- and poly-fluoroalkyl (PFAS) substances. Data file is sourced from EPA's PFAS Analytic Tools TSCA dataset which includes CDR/Inventory Update Reporting data from 1998 up to 2020. Disclaimer: This data file includes production and importation data for chemicals identified in EPA's CompTox Chemicals Dashboard list of PFAS without explicit structures and list of PFAS structures in DSSTox. Note that some regulations have specific chemical structure requirements that define PFAS differently than the lists in EPA's CompTox Chemicals Dashboard. Reporting information on manufactured or imported chemical substance amounts should not be compared between facilities, as some companies claim Chemical Data Reporting Rule data fields for PFAS information as Confidential Business Information.

Government Publication Date: Jan 5, 2023

PFAS Waste Transfers from RCRA e-Manifest:

PFAS E-MANIFEST

Order No: 23101200256

This Per- and Poly-Fluoroalkyl Substances (PFAS) Waste Transfers dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. Every shipment of hazardous waste in the U.S. must be accompanied by a shipment manifest, which is a critical component of the cradle-to-grave tracking of wastes mandated by the Resource Conservation and Recovery Act (RCRA). According to the EPA, currently no Federal Waste Code exists for any PFAS compounds. To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: • PFAS • PFOA • PFOS • PERFL • AFFF • GENX • GEN-X (plus the Vermont state-specific waste codes). Limitations: Amount or concentration of PFAS being transferred cannot be determined from the manifest information. Keyword searches may misidentify some manifest records that do not contain PFAS. This dataset should also not be considered to be exhaustive of all PFAS waste transfers.

Government Publication Date: Apr 9, 2023

PFAS Industry Sectors:

This Per- and Poly-Fluoroalkyl Substances (PFAS) Industry Sectors dataset is made available via the U.S. Environmental Protection Agency's (EPA) PFAS Analytic Tools. The EPA developed the dataset from various sources that show which industries may be handling PFAS including: EPA's Enforcement and Compliance History Online (ECHO) records restricted to potential PFAS-handling industry sectors; ECHO records for Fire Training Sites identified where fire-fighting foam may have been used in training exercises; and 14 CFR Part 139 Airports compiled from historic and current records from the FAA Airport Data and Information Portal. Since July 2006, all certificated Part 139 Airports are required to have fire-fighting foam onsite that meet certain military specifications, which to date have been fluorinated (Aqueous Film Forming Foam). Limitations: Inclusion in this dataset does not indicate that PFAS are being manufactured, processed, used, or released by the facility. Listed facilities potentially handle PFAS based on their industrial profile, but are unconfirmed by the EPA. Keyword searches in ECHO for Fire Training sites may misidentify some facilities and should not be considered to be an exhaustive list of fire training facilities in the U.S.

Government Publication Date: Apr 16, 2023

Hazardous Materials Information Reporting System:

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs:

NCDL

The U.S. Department of Justice ("the Department"), Drug Enforcement Administration (DEA), provides this data 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.

Government Publication Date: Jul 26, 2023

Toxic Substances Control Act:

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

HIST TSCA:

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

FTTS INSP

Order No: 23101200256

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

PRP

Early in the site cleanup process, the U.S. Environmental Protection Agency (EPA) conducts a search to find the Potentially Responsible Parties (PRPs). The EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site. This listing contains PRPs, Noticed Parties, at sites in the EPA's Superfund Enterprise Management System (SEMS).

Government Publication Date: Aug 23, 2023

State Coalition for Remediation of Drycleaners Listing:

SCRD DRYCL FANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

ICIS

The Integrated Compliance Information System (ICIS) database contains integrated enforcement and compliance information across most of U.S. Environmental Protection Agency's (EPA) programs. The vision for ICIS is to replace EPA's independent databases that contain enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions and a subset of the Permit Compliance System (PCS), which supports the National Pollutant Discharge Elimination System (NPDES). This information is maintained by the EPA Headquarters and at the Regional offices. A future release of ICIS will completely replace PCS and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities that support compliance and enforcement programs, including incident tracking, compliance assistance, and compliance monitoring.

Government Publication Date: Jan 21, 2023

<u>Drycleaner Facilities:</u>

FED DRYCLEANERS

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) data as made available by the U.S. Environmental Protection Agency (EPA), sourced from the ECHO Exporter file. The EPA tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Apr 15, 2023

Delisted Drycleaner Facilities:

DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Apr 15, 2023

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DOD) is responsible for an environmental restoration. The FUDS Annual Report to Congress (ARC) is published by the U.S. Army Corps of Engineers (USACE). This data is compiled from the USACE's Geospatial FUDS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) FUDS dataset.

Government Publication Date: Jul 12, 2022

FUDS Munitions Response Sites:

FUDS MRS

Boundaries of Munitions Response Sites (MRS), published with the Formerly Used Defense Sites (FUDS) Annual Report to Congress (ARC) by the U.S. Army Corps of Engineers (USACE). An MRS is a discrete location within a Munitions response area (MRA) that is known to require a munitions response. An MRA means any area on a defense site that is known or suspected to contain unexploded ordnance (UXO), discarded military munitions (DMM), or munitions constituents (MC). This data is compiled from the USACE's Geospatial MRS data layers and Homeland Infrastructure Foundation-Level Data (HIFLD) MRS dataset.

Government Publication Date: Jul 12, 2022

Former Military Nike Missile Sites:

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents:

PIPELINE INCIDENT

Order No: 23101200256

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Dec 30, 2022

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

<u>Historic Material Licensing Tracking System (MLTS) sites:</u>

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:

The Master Index File (MIF) is provided by the United States Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: May 1, 2023

Surface Mining Control and Reclamation Act Sites:

SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (OSMRE) to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). This inventory contains information on the type and extent of Abandoned Mine Land (AML) impacts, as well as information on the cost associated with the reclamation of those problems. The data 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. Disclaimer: Per the OSMRE, States and tribes who enter their data into eAMLIS (AML Inventory System) may truncate their latitude and longitude so the precise location of usually dangerous AMLs is not revealed in an effort to protect the public from searching for these AMLs, most of which are on private property. If more precise location information is needed, please contact the applicable state/tribe of interest.

Government Publication Date: Jun 13, 2023

Mineral Resource Data System:

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

DOE Legacy Management Sites:

LM SITES

The U.S. Department of Energy (DOE) Office of Legacy Management (LM) currently manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The LM manages sites with diverse regulatory drivers (statutes or programs that direct cleanup and management requirements at DOE sites) or as part of internal DOE or congressionally-recognized programs, such as but not limited to: Formerly Utilized Sites Remedial Action Program (FUSRAP), Uranium Mill Tailings Radiation Control Act (UMTRCA Title I, Tile II), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), Decontamination and Decommissioning (D&D), Nuclear Waste Policy Act (NWPA). This site listing includes data exported from the DOE Office of LM's Geospatial Environmental Mapping System (GEMS). GEMS Data disclaimer: The DOE Office of LM makes no representation or warranty, expressed or implied, regarding the use, accuracy, availability, or completeness of the data presented herein.

Government Publication Date: May 25, 2023

Alternative Fueling Stations:

ALT FUELS

Order No: 23101200256

This list of alternative fueling stations is sourced from the Alternative Fuels Data Center (AFDC). The U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy launched the AFDC in 1991 as a repository for alternative fuel vehicle performance data, which provides a wealth of information and data on alternative and renewable fuels, advanced vehicles, fuel-saving strategies, and emerging transportation technologies. The data includes Biodiesel (B20 and above), Compressed Natural Gas (CNG), Electric, Ethanol (E85), Hydrogen, Liquefied Natural Gas (LNG), Propane (LPG), and Renewable Diesel (R20 and above) fuel type locations.

Government Publication Date: Aug 30, 2023

Superfunds Consent Decrees: CONSENT DECREES

This list of Superfund consent decrees is provided by the Department of Justice, Environment & Natural Resources Division (ENRD) through a Freedom of Information Act (FOIA) applicable file. This listing includes Consent Decrees for CERCLA or Superfund Sites filed and/or as proposed within the ENRD's Case Management System (CMS) since 2010. CMS may not reflect the latest developments in a case nor can the agency guarantee the accuracy of the data. ENRD Disclaimer: Congress excluded three discrete categories of law enforcement and national security records from the requirements of the FOIA; response is limited to those records that are subject to the requirements of the FOIA; however, this should not be taken as an indication that excluded records do, or do not, exist.

Government Publication Date: Apr 19, 2023

Air Facility System:

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments:

SSTS

This national list of active EPA-registered foreign and domestic pesticide and/or device-producing establishments is based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that each producing establishment must place its EPA establishment number on the label or immediate container of each pesticide, active ingredient or device produced. An EPA establishment number on a pesticide product label identifies the EPA registered location where the product was produced. The list of establishments is made available by the U.S. Environmental Protection Agency (EPA).

Government Publication Date: Mar 1, 2023

Polychlorinated Biphenyl (PCB) Transformers:

PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers:

PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Mar 20, 2023

State

Per- and Polyfluoroalkyl Substances (PFAS):

PFAS

List of general environmental incidents reported to the North Dakota Department of Environmental Quality (NDEQ) where one or more of the materials involved in the incident are in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Jun 5, 2023

Spills Database: SPILLS

List of Environmental Incidents and Oil/Gas Spills from the North Dakota Unified Spill Reporting System.

Government Publication Date: Jun 5, 2023

HIST SPILLS
HIST SPILLS

List of historical release/spill events made available by the North Dakota Department of Health's Environmental Health Section.

Government Publication Date: Jul 1, 2014

Oilfield Environmental Incidents - Historical:

HIST OGW SPILLS

Order No: 23101200256

A list of oilfield environmental incidents reported to the North Dakota Department of Environmental Quality (DEQ) by the Department of Mineral Resources' Oil and Gas Division whenever an oilfield environmental incident report was filed from 1975 to 2020.

Government Publication Date: Dec 31, 2020

Listing of Meth Labs in North Dakota:

CDL

Meth labs reported to the North Dakota State and Local Intelligence Center (NDSLIC) dating back to 2004.

Government Publication Date: Jan 12, 2022

Underground Injection Control Wells:

UIC

Order No: 23101200256

The Underground Injection Control (UIC) Program of the North Dakota Department of Environmental Quality Groundwater Division defines an injection well as any bored, drilled or a driven shaft or a dug hole, where the depth is greater than the largest surface dimension that is used to discharge fluids underground. A drainfield is considered to be a horizontally placed injection system, and some drainfields are covered under the UIC Program.

Government Publication Date: Aug 25, 2023

Dry Cleaning Facilities: DRYCLEANERS

This list of dry cleaner facilities is maintained by the North Dakota Department of Environmental Quality's (ND DEQ) Division of Air Quality.

Government Publication Date: Jan 10, 2023

Delisted Drycleaners:

DELISTED DRYCLEANERS

List of sites removed from the permitted drycleaner facilities made available by the North Dakota Department of Health.

Government Publication Date: Jan 10, 2023

Air Permits: AIR PERMITS

List of air permits from Combined Environmental Regulatory Information System - North Dakota (CERCIS-ND) made available by the North Dakota Environmental Quality Air Quality Program. Includes violation and enforcement actions.

Government Publication Date: Jun 20, 2023

Feedlots: FEEDLOTS

The North Dakota Department of Agriculture provides this listing of cattle feeders.

Government Publication Date: Apr 9, 2013

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

<u>Database Descriptions:</u> This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

<u>Detail Report</u>: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

<u>Distance:</u> The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

<u>Elevation:</u> The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

<u>Unplottables:</u> These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.



Property Information

Order Number: 23101200256p

Date Completed: October 12, 2023

Project Number: 4545300-230576.01

Project Property: Stanley Municipal Airport

Stanley Municipal Airport Stanley ND

Coordinates:

Latitude: 48.3023571 Longitude: -102.40766666

 UTM Northing:
 5353155.02805 Meters

 UTM Easting:
 692236.285626 Meters

UTM Zone: UTM Zone 13U Elevation: 2,239.31 ft

Slope Direction: SE

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Hydrologic Information	12
Geologic Information	19
Soil Information	23
Wells and Additional Sources	52
Summary	57
Detail Report	60
Radon Information	92
AppendixLiability Notice	95

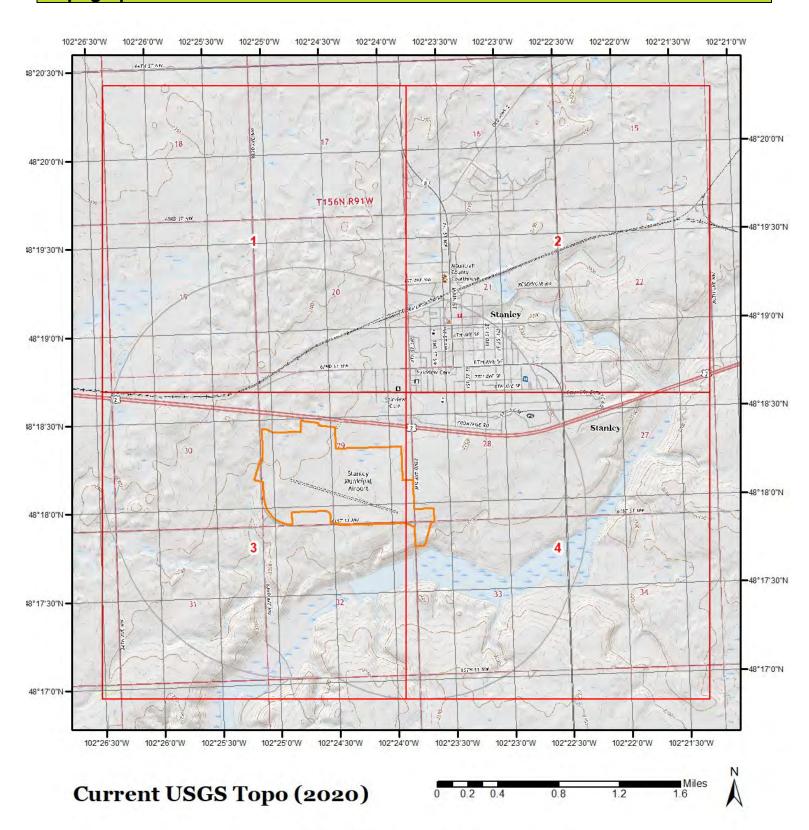
The ERIS *Physical Setting Report - PSR* provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

Disclaimer

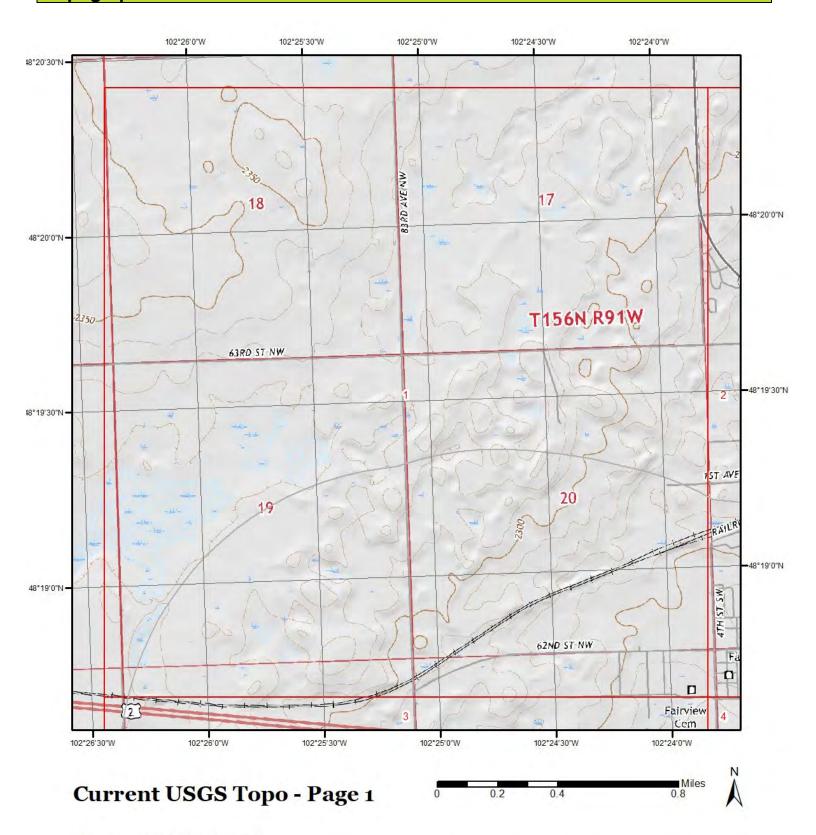
This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Order No: 23101200256p



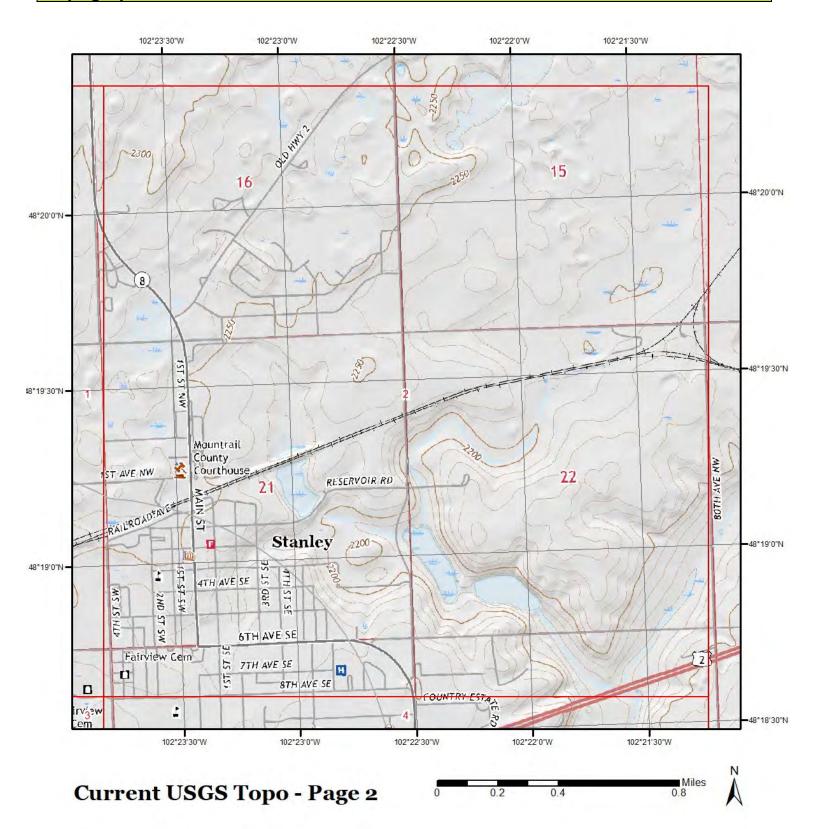
Quadrangle(s): Clearwater Lake,ND; Stanley,ND; Cottonwood Lake,ND: Stanley SE,ND; Belden,ND; Robinson Lake,ND; Ross,ND; Lostwood,l





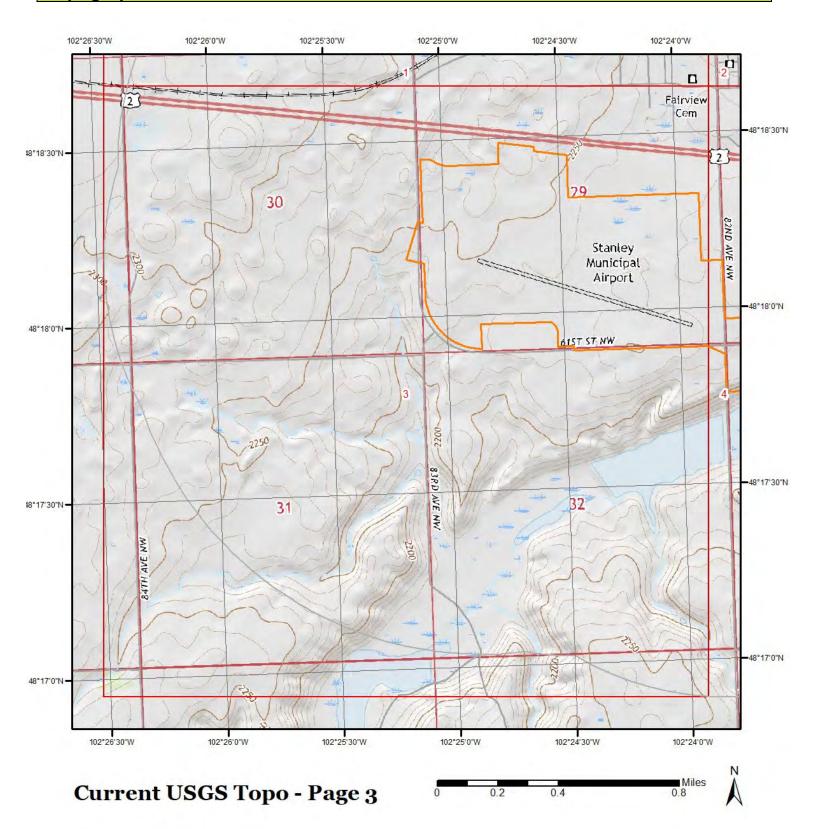
Quadrangle(s): Stanley,ND





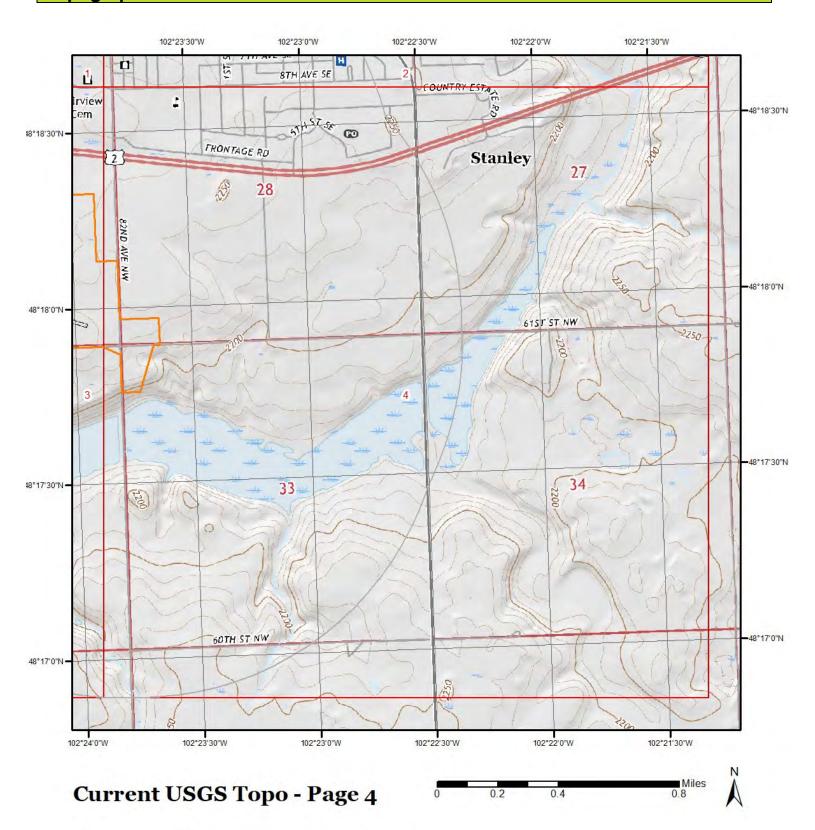
Quadrangle(s): Stanley,ND; Stanley SE,ND





Quadrangle(s): Stanley,ND





Quadrangle(s): Stanley,ND; Stanley SE,ND

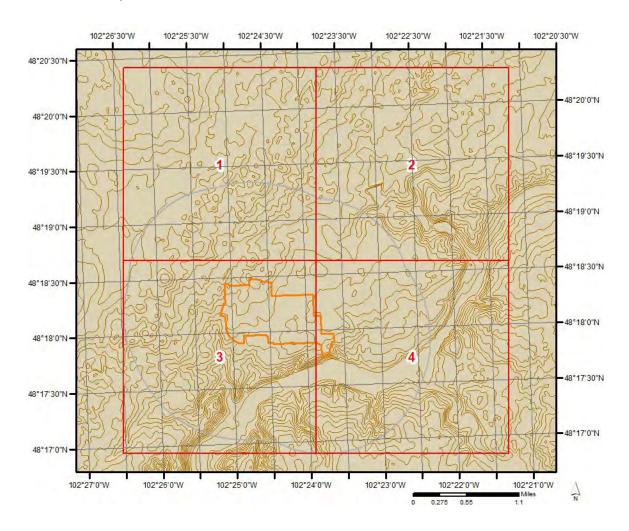
Source: USGS 7.5 Minute Topographic Map

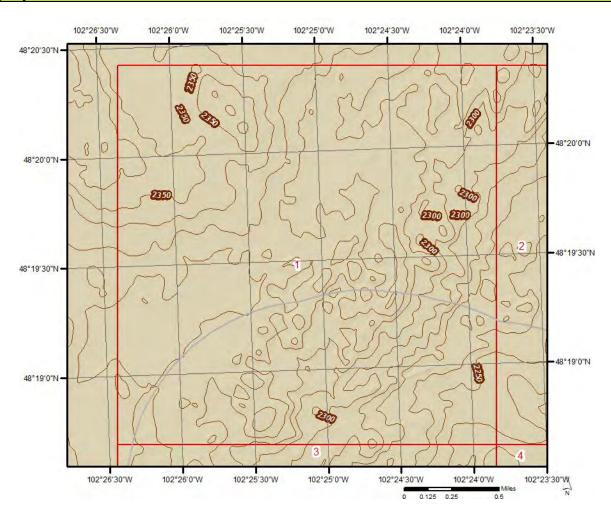


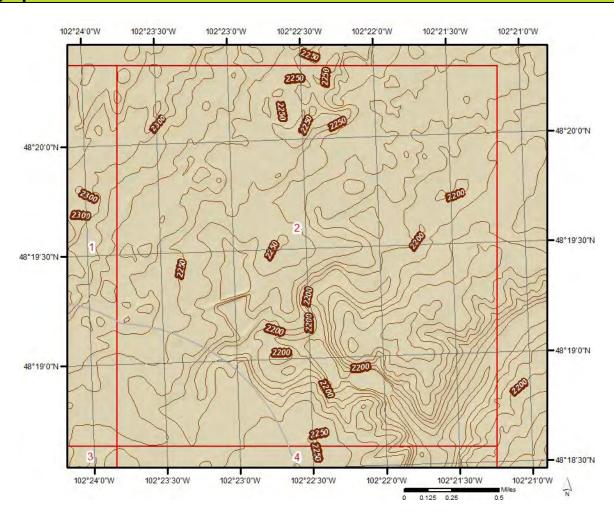
The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

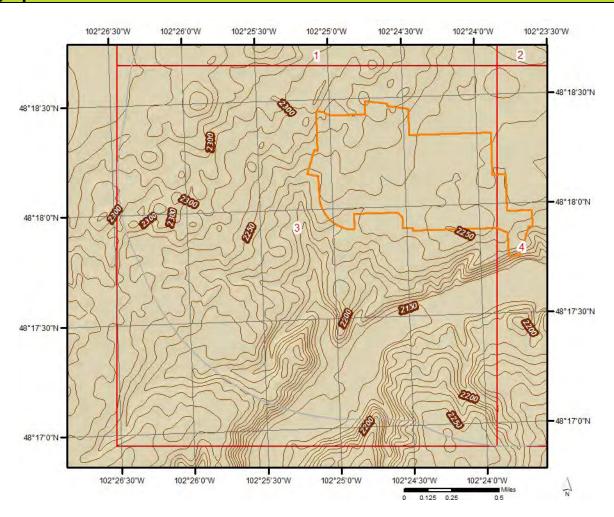
Topographic information at project property:

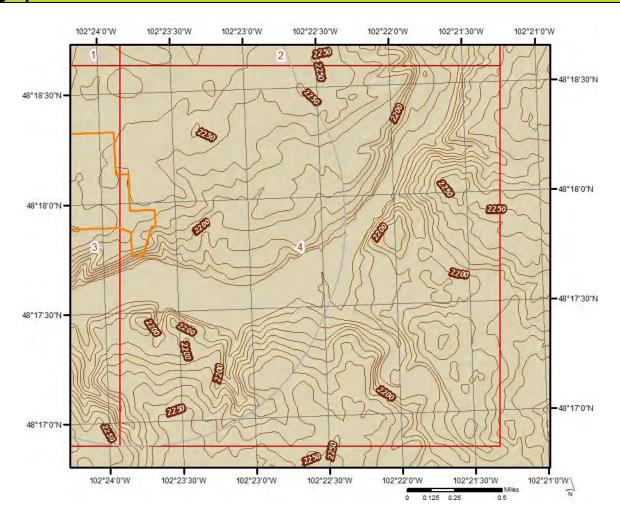
Elevation: 2,239.31 ft Slope Direction: SE

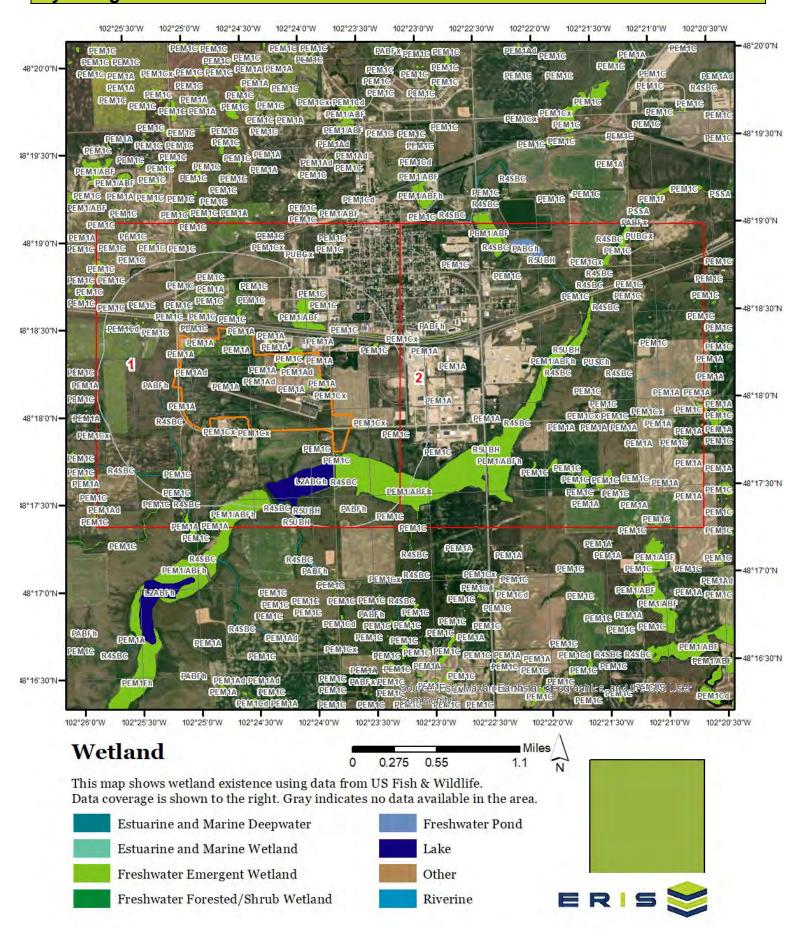


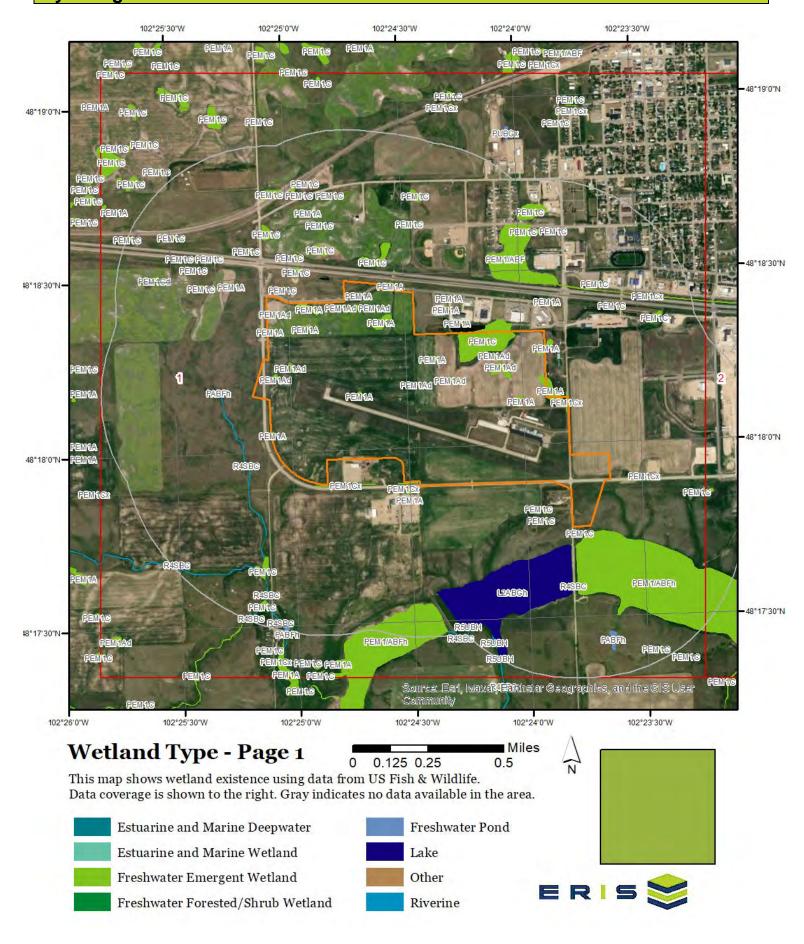


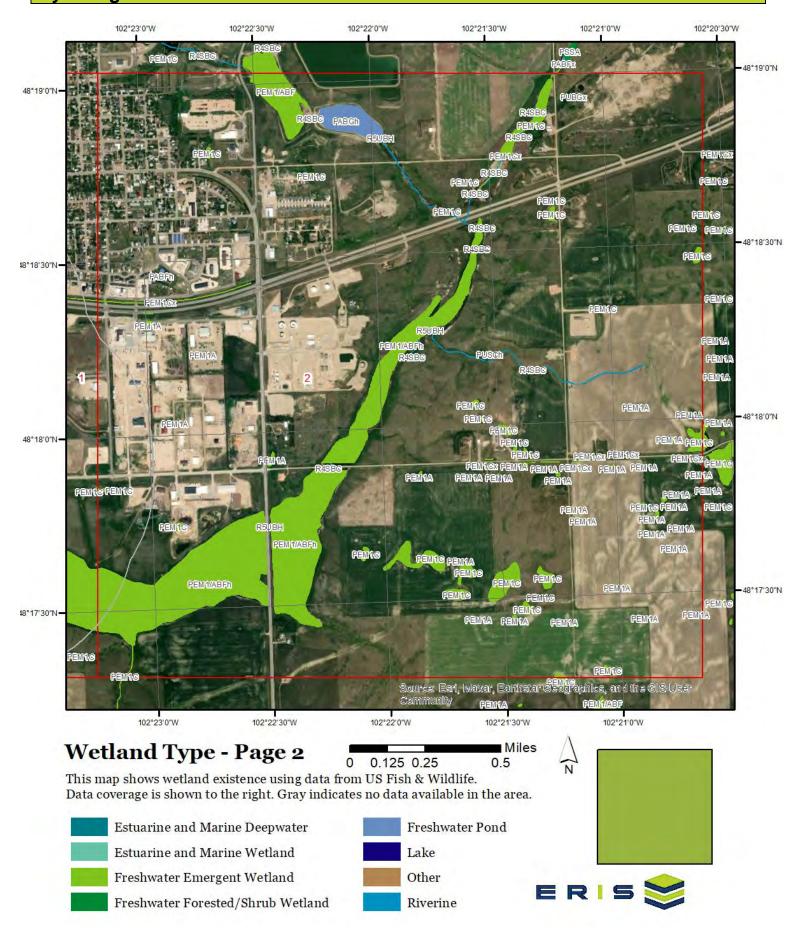


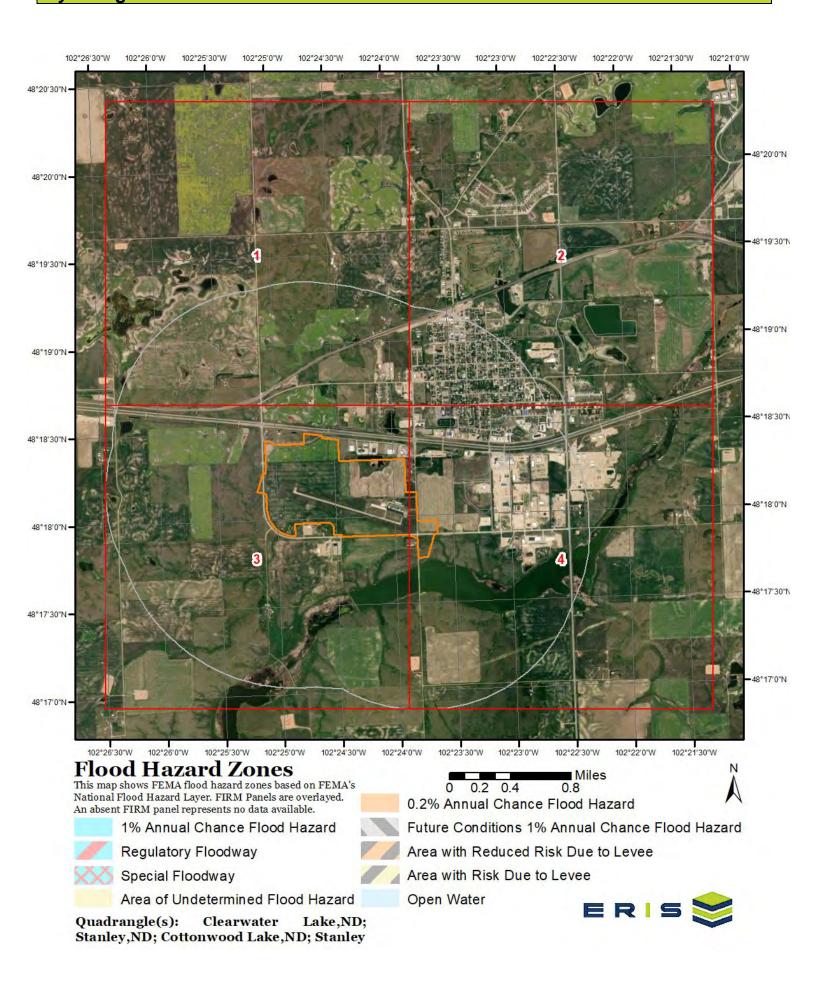












The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below. For detailed Zone descriptions please click the link: https://floodadvocate.com/fema-zone-definitions

No records found for the project property or surrounding properties.

FEMA Flood Zone Definitions

Special Flood Hazard Areas - High Risk

Special Flood Hazard Areas represent the area subject to inundation by 1-percent-annual chance flood. Structures located within the SFHA have a 26-percent chance of flooding during the life of a standard 30-year mortgage. Federal floodplain management regulations and mandatory flood insurance purchase requirements apply in these zones.

ZONE	DESCRIPTION
А	Areas subject to inundation by the 1-percent-annual-chance flood event. Because detailed hydraulic analyses have not been performed, no Base Flood Elevations (BFEs) or flood depths are shown.
AE, A1-A30	Areas subject to inundation by the 1-percent-annual-chance flood event determined by detailed methods. BFEs are shown within these zones. (Zone AE is used on new and revised maps in place of Zones A1–A30.)
АН	Areas subject to inundation by 1-percent-annual-chance shallow flooding (usually areas of ponding) where average depths are 1–3 feet. BFEs derived from detailed hydraulic analyses are shown in this zone.
AO	Areas subject to inundation by 1-percent-annual-chance shallow flooding (usually sheet flow on sloping terrain) where average depths are 1–3 feet. Average flood depths derived from detailed hydraulic analyses are shown within this zone.
AR	Areas that result from the decertification of a previously accredited flood protection system that is determined to be in the process of being restored to provide base flood protection.
A99	Areas subject to inundation by the 1-percent-annual-chance flood event, but which will ultimately be protected upon completion of an under-construction Federal flood protection system. These are areas of special flood hazard where enough progress has been made on the construction of a protection system, such as dikes, dams, and levees, to consider it complete for insurance rating purposes. Zone A99 may be used only when the flood protection system has reached specified statutory progress toward completion. No BFEs or flood depths are shown.

Coastal High Hazard Areas - High Risk

Coastal High Hazard Areas (CHHA) represent the area subject to inundation by 1-percent-annual chance flood, extending from offshore to the inland limit of a primary front all dune along an open coast and any other area subject to high velocity wave action from storms or seismic sources. Structures located within the CHHA have a 26-percent chance of flooding during the life of a standard 30-year mortgage. Federal floodplain management regulations and mandatory purchase requirements apply in these zones.

ZONE	DESCRIPTION
V	Areas along coasts subject to inundation by the 1-percent-annual-chance flood event with additional hazards associated with storm-induced waves. Because detailed coastal analyses have not been performed, no BFEs or flood depths are shown.
VE, V1-V30	Areas along coasts subject to inundation by the 1-percent-annual-chance flood event with additional hazards due to storm-induced velocity wave action. BFEs derived from detailed hydraulic coastal analyses are shown within these zones. (Zone VE is used on new and revised maps in place of Zones V1–V30.)

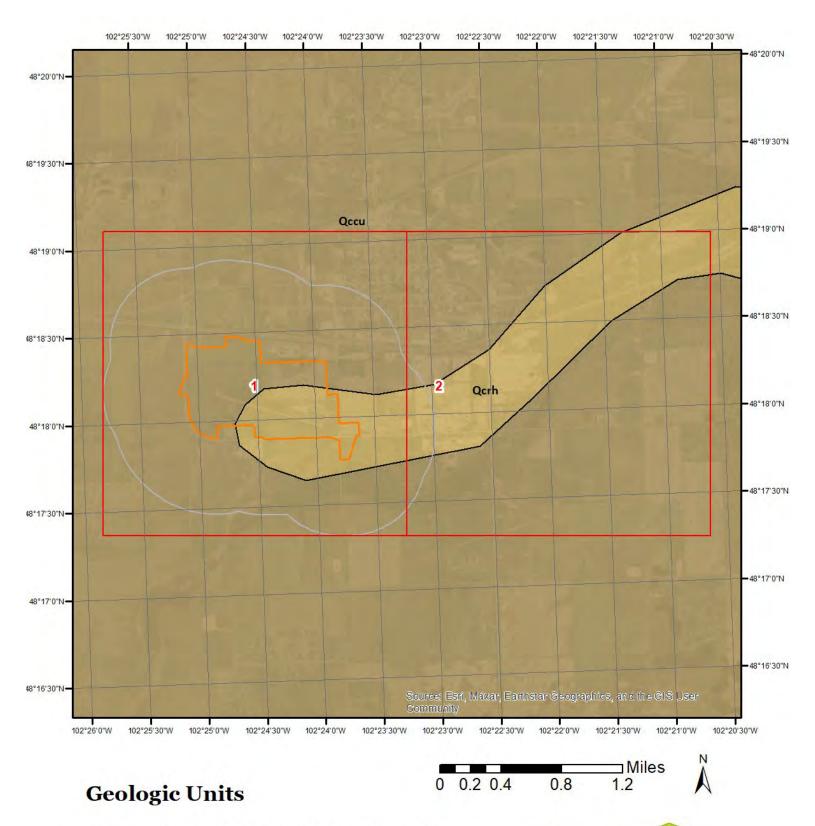
Moderate and Minimal Risk Areas

Areas of moderate or minimal hazard are studied based upon the principal source of flood in the area. However, buildings in these zones could be flooded by severe, concentrated rainfall coupled with inadequate local drainage systems. Local stormwater drainage systems are not normally considered in a community's flood insurance study. The failure of a local drainage system can create areas of high flood risk within these zones. Flood insurance is available in participating communities, but is not required by regulation in these zones. Nearly 25-percent of all flood claims filed are for structures located within these zones.

ZONE	DESCRIPTION
B, X (shaded)	Moderate risk areas within the 0.2-percent-annual-chance floodplain, areas of 1-percent-annual-chance flooding where average depths are less than 1 foot, areas of 1-percent-annual-chance flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 1-percent-annual-chance flood by a levee. No BFEs or base flood depths are shown within these zones. (Zone X (shaded) is used on new and revised maps in place of Zone B.)
C, X (unshaded)	Minimal risk areas outside the 1-percent and .2-percent-annual-chance floodplains. No BFEs or base flood depths are shown within these zones. (Zone X (unshaded) is used on new and revised maps in place of Zone C.)

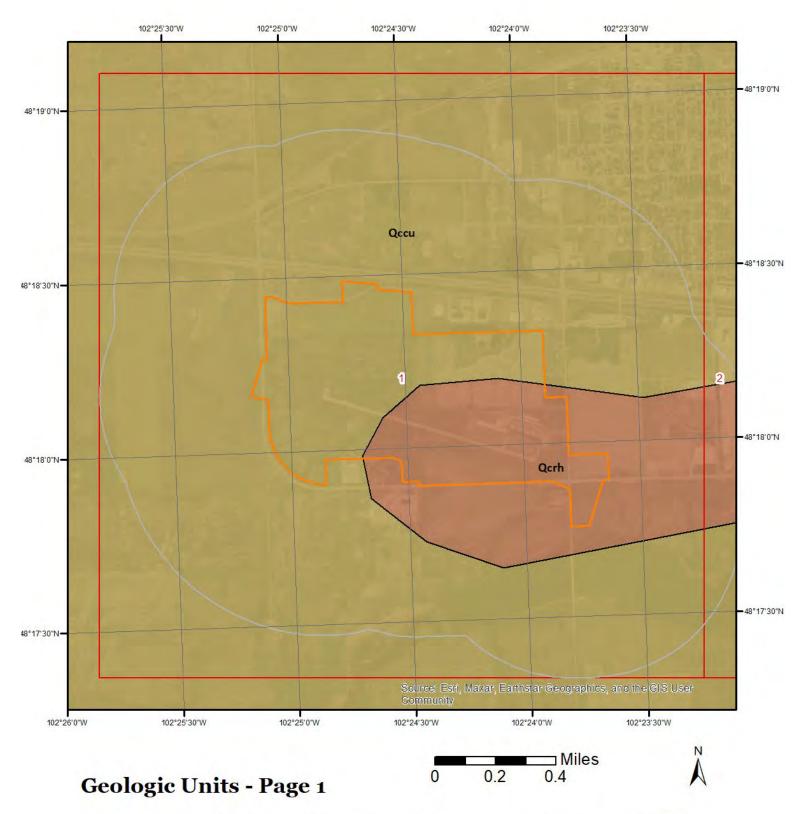
Undetermined Risk Areas

ZONE	Ē	DESCRIPTION
D		Unstudied areas where flood hazards are undetermined, but flooding is possible. No mandatory flood insurance purchase requirements apply, but coverage is available in participating communities.



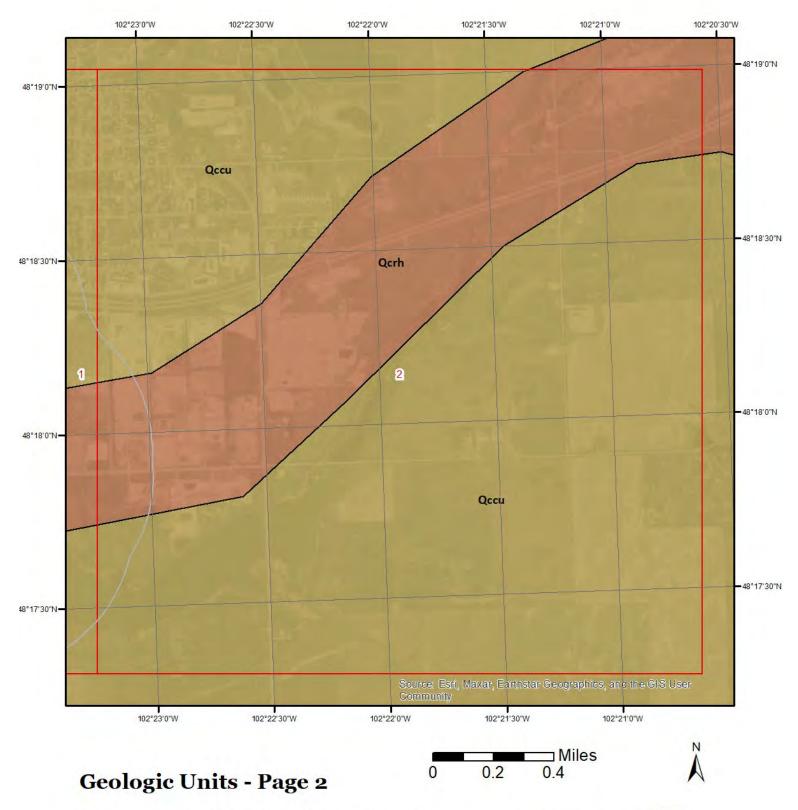
This maps shows geologic units in the area. Please refer to the report for detailed descriptions.





This maps shows geologic units in the area. Please refer to the report for detailed descriptions.





This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Qccu

Unit Name: Glacial Sediment- Collapsed Glacial Sediment

Unit Age: Phanerozoic | Cenozoic | Quaternary | Pleistocene Holocene

Primary Rock Type: clay or mud

Secondary Rock Type: silt

Unit Description: Unbedded, unsorted mixture of clay, silt, sand, and pebbles, and a few

cobbles and boulders; as thick as 30 meters (100 feet)

Geologic Unit Qcrh

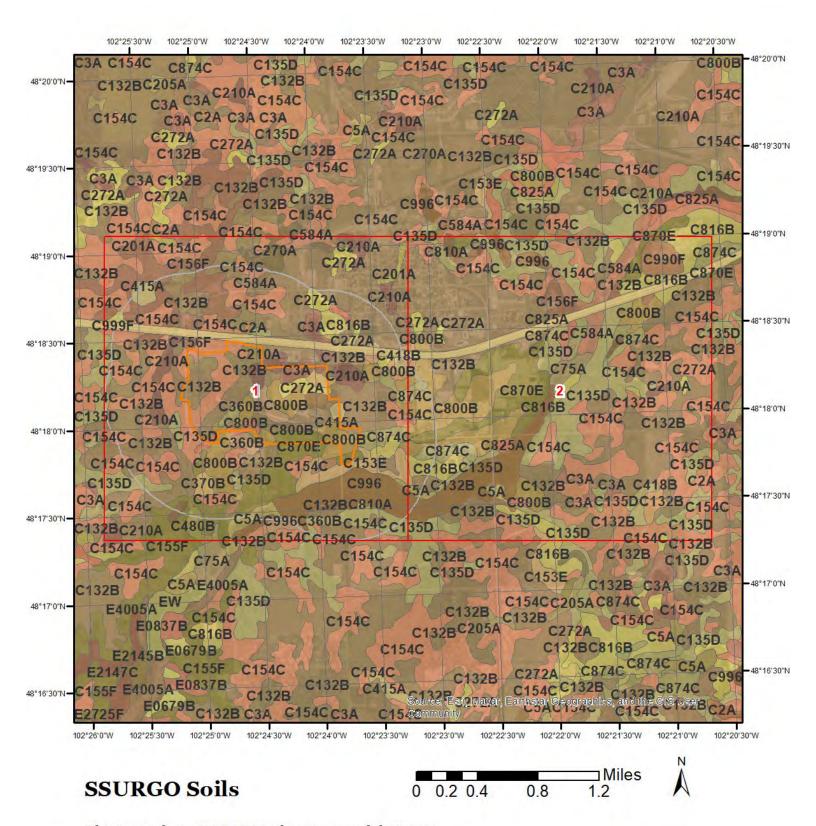
Unit Name: Coleharbor Formation- River Sediment- Collapsed River Sediment

Unit Age: Phanerozoic | Cenozoic | Quaternary | Pleistocene Holocene

Primary Rock Type: sand
Secondary Rock Type: gravel

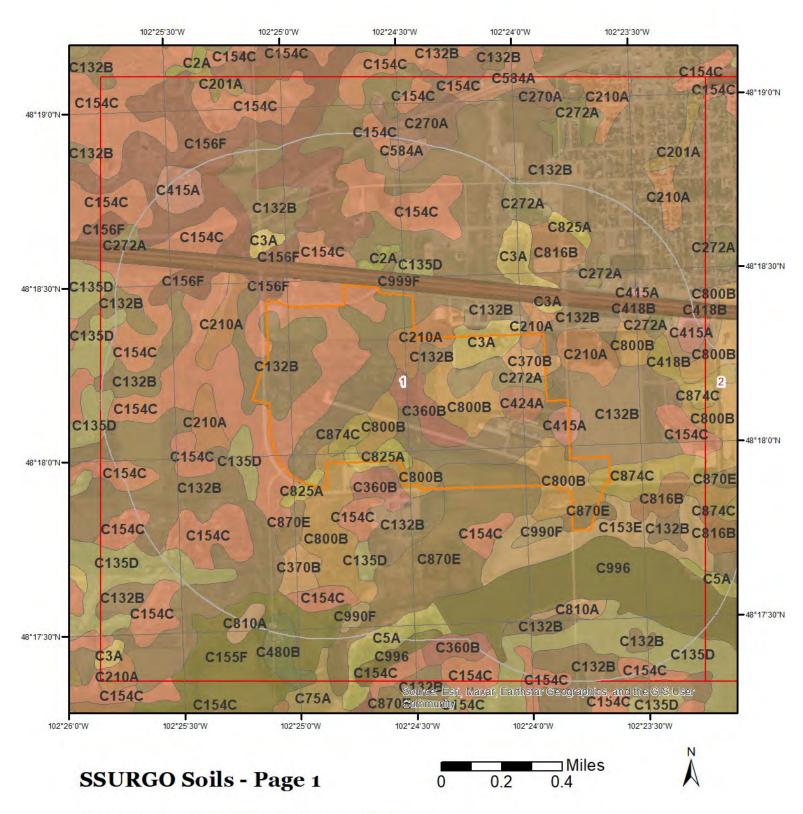
Unit Description: Moderately well sorted cross-bedded sand and plane-bedded gravel, including

sediment of melt-water and other rivers; as thick as 30 meters (100 feet). Faulted and contorted supraglacial sediment with hummocky topography.



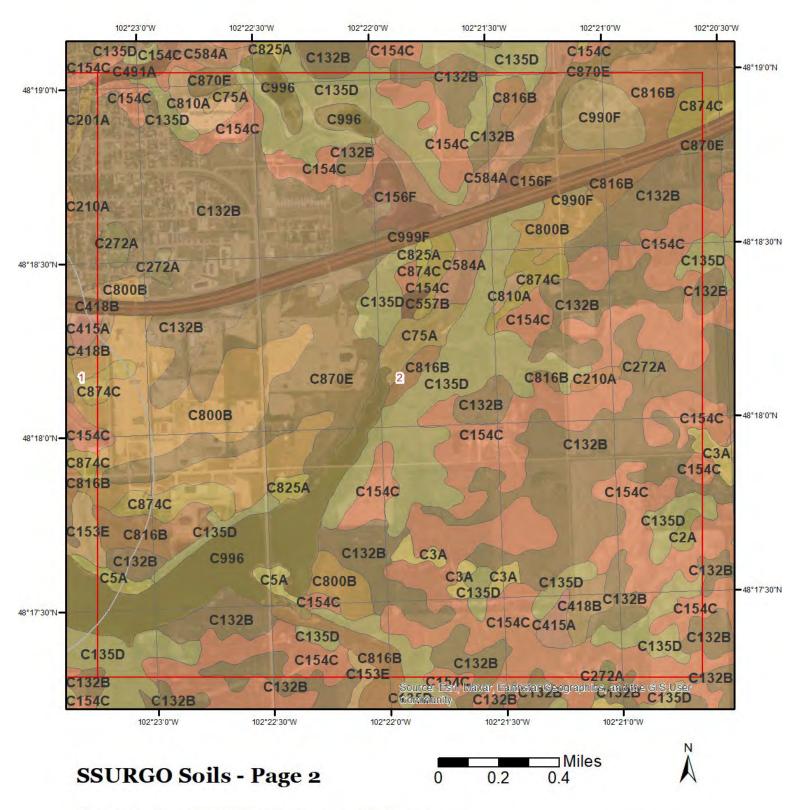
This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.





This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.





This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.



The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit C132B (48.49%)

Map Unit Name: Williams-Zahl loams, 3 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Williams(54%)

horizon Ap(0cm to 15cm)

horizon Bt1(15cm to 25cm)

horizon Bt2(25cm to 38cm)

horizon Btk(38cm to 61cm)

horizon Bk(61cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Clay loam

Zahl(20%)

horizon Ap(0cm to 14cm)

horizon Bk(14cm to 55cm)

horizon C(55cm to 200cm)

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C132B - Williams-Zahl loams, 3 to 6 percent slopes

Component: Williams (54%)

The Williams component makes up 54 percent of the map unit. Slopes are 3 to 6 percent. This component is on ground moraines on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Zahl (20%)

The Zahl component makes up 20 percent of the map unit. Slopes are 3 to 6 percent. This component is on ground moraines on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Order No: 23101200256p

Component: Bowbells (11%)

Generated brief soil descriptions are created for major soil components. The Bowbells soil is a minor component.

Component: Zahill (8%)

Generated brief soil descriptions are created for major soil components. The Zahill soil is a minor component.

Component: Hamerly (4%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Tonka (2%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Noonan (1%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Map Unit C135D (4.27%)

Map Unit Name: Zahl-Williams loams, 9 to 15 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Zahl(41%)

horizon A(0cm to 12cm)

horizon Bk(12cm to 55cm)

Clay loam

horizon C(55cm to 200cm)

Clay loam

Williams(30%)

horizon Ap(0cm to 15cm)

horizon Bt1(15cm to 25cm)

horizon Bt2(25cm to 38cm)

horizon Btk(38cm to 61cm)

horizon Bk(61cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C135D - Zahl-Williams loams, 9 to 15 percent slopes

Component: Zahl (41%)

The Zahl component makes up 41 percent of the map unit. Slopes are 9 to 15 percent. This component is on hills on till plains, ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Williams (30%)

The Williams component makes up 30 percent of the map unit. Slopes are 9 to 15 percent. This component is on hills on till plains, ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowbells (9%)

Generated brief soil descriptions are created for major soil components. The Bowbells soil is a minor component.

Component: Zahill (9%)

Generated brief soil descriptions are created for major soil components. The Zahill soil is a minor component.

Component: Niobell (3%)

Generated brief soil descriptions are created for major soil components. The Niobell soil is a minor component.

Component: Wabek (3%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Parnell (3%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Hamerly (2%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Map Unit C153E (0.64%)

Map Unit Name: Zahl-Max loams, 15 to 25 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Zahl(50%)

horizon A(0cm to 14cm)

horizon Bk(14cm to 55cm)

Clay loam

horizon C(55cm to 200cm)

Clay loam

Max(34%)

horizon A(0cm to 15cm)

horizon Bw(15cm to 31cm)

horizon Bk(31cm to 88cm)

horizon C(88cm to 200cm)

Loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C153E - Zahl-Max loams, 15 to 25 percent slopes

Component: Zahl (50%)

The Zahl component makes up 50 percent of the map unit. Slopes are 15 to 25 percent. This component is on disintegration moraines on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Max (34%)

The Max component makes up 34 percent of the map unit. Slopes are 15 to 25 percent. This component is on disintegration moraines on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Arnegard (6%)

Generated brief soil descriptions are created for major soil components. The Arnegard soil is a minor component.

Component: Parnell (5%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Tonka (3%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Wabek (1%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Zahl (1%)

Generated brief soil descriptions are created for major soil components. The Zahl, very stony soil is a minor component.

Map Unit C154C (6.15%)

Map Unit Name: Zahl-Williams-Bowbells loams, 3 to 9 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Null

130cm

Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Zahl(40%)

horizon Ap(0cm to 14cm)

horizon Bk(14cm to 55cm)

Clay loam

horizon C(55cm to 200cm)

Clay loam

Williams(24%)

horizon Ap(0cm to 15cm)

horizon Bt1(15cm to 25cm)

horizon Bt2(25cm to 38cm)

horizon Btk(38cm to 61cm)

horizon Bk(61cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Clay loam

Bowbells(16%)

horizon Ap(0cm to 15cm)

horizon Bt(15cm to 58cm)

horizon Bk(58cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C154C - Zahl-Williams-Bowbells loams, 3 to 9 percent slopes

Component: Zahl (40%)

The Zahl component makes up 40 percent of the map unit. Slopes are 6 to 9 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Williams (24%)

The Williams component makes up 24 percent of the map unit. Slopes are 6 to 9 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowbells (16%)

The Bowbells component makes up 16 percent of the map unit. Slopes are 3 to 6 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 51 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY005ND Loamy Overflow ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Zahill (12%)

Generated brief soil descriptions are created for major soil components. The Zahill soil is a minor component.

Component: Hamerly (3%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Livona (2%)

Generated brief soil descriptions are created for major soil components. The Livona soil is a minor component.

Component: Tonka (2%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Lehr (1%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Map Unit C155F (3.87%)

Map Unit Name: Zahl-Max-Arnegard loams, 15 to 60 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Zahl(40%)

horizon A(0cm to 12cm)

horizon Bk(12cm to 55cm)

Clay loam

horizon C(55cm to 200cm)

Clay loam

Max(30%)

horizon A(0cm to 15cm)

horizon Bw(15cm to 31cm)

horizon Bk(31cm to 88cm)

horizon C(88cm to 200cm)

Loam

Clay loam

Clay loam

Arnegard(19%)

horizon A(0cm to 30cm)

horizon Bw(30cm to 57cm)

horizon Bk(57cm to 93cm)

horizon C(93cm to 200cm)

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C155F - Zahl-Max-Arnegard loams, 15 to 60 percent slopes

Component: Zahl (40%)

The Zahl component makes up 40 percent of the map unit. Slopes are 25 to 60 percent. This component is on ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a

depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Max (30%)

The Max component makes up 30 percent of the map unit. Slopes are 25 to 60 percent. This component is on hills on till plains, ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Arnegard (19%)

The Arnegard component makes up 19 percent of the map unit. Slopes are 15 to 25 percent. This component is on swales on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Wabek (4%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Harriet (3%)

Generated brief soil descriptions are created for major soil components. The Harriet soil is a minor component.

Component: Noonan (3%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Component: Hamerly (1%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Map Unit C156F (3.6%)

Map Unit Name: Zahl-Max-Bowbells loams, 6 to 35 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Mell drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Zahl(54%)

horizon A(0cm to 12cm)

horizon Bk(12cm to 55cm)

horizon C(55cm to 200cm)

Clay loam

Clay loam

Max(22%)

horizon A(0cm to 15cm)

horizon Bw(15cm to 31cm)

horizon Bk(31cm to 88cm)

horizon C(88cm to 200cm)

Loam

Clay loam

Clay loam

Bowbells(18%)

horizon Ap(0cm to 15cm)

horizon Bt(15cm to 58cm)

horizon Bk(58cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C156F - Zahl-Max-Bowbells loams, 6 to 35 percent slopes

Component: Zahl (54%)

The Zahl component makes up 54 percent of the map unit. Slopes are 15 to 35 percent. This component is on ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Max (22%)

The Max component makes up 22 percent of the map unit. Slopes are 15 to 25 percent. This component is on hills on till plains, ridges on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowbells (18%)

The Bowbells component makes up 18 percent of the map unit. Slopes are 6 to 9 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 51 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY005ND Loamy Overflow ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Parnell (2%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Tonka (1%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Wabek (1%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Hamerly (1%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Noonan (1%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Map Unit C210A (0.88%)

Map Unit Name: Williams-Bowbells loams, 0 to 3 percent slopes

Bedrock Depth - Min:

Watertable Depth - Annual Min:

Drainage Class - Dominant:

Mell drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Williams(60%)

horizon Ap(0cm to 15cm)

horizon Bt1(15cm to 25cm)

horizon Bt2(25cm to 38cm)

horizon Btk(38cm to 61cm)

horizon Bk(61cm to 91cm)

horizon C(91cm to 200cm)

Clay loam

Clay loam

Bowbells(21%)

horizon Ap(0cm to 15cm)

horizon Bt(15cm to 58cm)

horizon Bk(58cm to 91cm)

horizon C(91cm to 200cm)

Loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C210A - Williams-Bowbells loams, 0 to 3 percent slopes

Component: Williams (60%)

The Williams component makes up 60 percent of the map unit. Slopes are 0 to 3 percent. This component is on rises on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2c. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowbells (21%)

The Bowbells component makes up 21 percent of the map unit. Slopes are 0 to 3 percent. This component is on flats on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 51 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY005ND Loamy Overflow ecological site. Nonirrigated land capability classification is 2c. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Zahl (8%)

Generated brief soil descriptions are created for major soil components. The Zahl soil is a minor component.

Component: Hamerly (5%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Tonka (2%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Noonan (2%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Component: Lehr (1%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Parnell (1%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Order No: 23101200256p

Map Unit C270A (0.49%)

Map Unit Name: Hamerly loam, 0 to 3 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 76cm

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Hamerly(70%)

horizon Ap(0cm to 19cm)

horizon Bk(19cm to 86cm)

Clay loam

horizon C(86cm to 200cm)

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C270A - Hamerly loam, 0 to 3 percent slopes

Component: Hamerly (70%)

The Hamerly component makes up 70 percent of the map unit. Slopes are 0 to 3 percent. This component is on flats on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY004ND Limy Subirrigated ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 30 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Bowbells (8%)

Generated brief soil descriptions are created for major soil components. The Bowbells soil is a minor component.

Component: Hamerly (7%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Vallers (6%)

Generated brief soil descriptions are created for major soil components. The Vallers soil is a minor component.

Component: Tonka (4%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Parnell (3%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Noonan (2%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Map Unit C272A (0.45%)

Map Unit Name: Hamerly-Tonka complex, 0 to 3 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 0cm

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

Order No: 23101200256p

Major components are printed below

Hamerly(45%)

horizon Ap(0cm to 19cm)

horizon Bk(19cm to 86cm)

Clay loam

horizon C(86cm to 200cm)

Clay loam

Tonka(30%)

horizon Ap(0cm to 18cm)

horizon A(18cm to 33cm)

horizon E(33cm to 48cm)

Silt loam

horizon E(33cm to 48cm)

Loam

horizon Bt(48cm to 86cm) Silty clay loam

horizon 2BC(86cm to 127cm) Clay loam horizon 2Cg(127cm to 200cm) Loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C272A - Hamerly-Tonka complex, 0 to 3 percent slopes

Component: Hamerly (45%)

The Hamerly component makes up 45 percent of the map unit. Slopes are 0 to 3 percent. This component is on flats on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during April, May, June. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY004ND Limy Subirrigated ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 30 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Tonka (30%)

The Tonka component makes up 30 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on till plains. The parent material consists of local alluvium over till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during March, April, May. Organic matter content in the surface horizon is about 7 percent. This component is in the R053BY019ND Wet Meadow ecological site. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Vallers (6%)

Generated brief soil descriptions are created for major soil components. The Vallers soil is a minor component.

Component: Hamerly (6%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Parnell (5%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Wyard (5%)

Generated brief soil descriptions are created for major soil components. The Wyard soil is a minor component.

Component: Noonan (3%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Map Unit C2A (0.05%)

Map Unit Name: Tonka silt loam, 0 to 1 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 0cm

Drainage Class - Dominant: Poorly drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high

runoff potential when undrained.

Order No: 23101200256p

Major components are printed below

Tonka(70%)

horizon Ap(0cm to 18cm)

horizon A(18cm to 33cm)

horizon E(33cm to 48cm)

Silt loam

Loam

horizon Bt(48cm to 86cm)

horizon 2BC(86cm to 127cm)

horizon 2Cg(127cm to 200cm)

Silty clay loam

Clay loam

Loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C2A - Tonka silt loam, 0 to 1 percent slopes

Component: Tonka (70%)

The Tonka component makes up 70 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on till plains. The parent material consists of local alluvium over till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during March, April, May. Organic matter content in the surface horizon is about 7 percent. This component is in the R053BY019ND Wet Meadow ecological site. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Rimlap (10%)

Generated brief soil descriptions are created for major soil components. The Rimlap soil is a minor component.

Component: Parnell (6%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Hamerly (5%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Bowbells (5%)

Generated brief soil descriptions are created for major soil components. The Bowbells soil is a minor component.

Component: Vallers (4%)

Generated brief soil descriptions are created for major soil components. The Vallers, moderately saline soil is a minor component.

Map Unit C360B (0.53%)

Map Unit Name: Livona fine sandy loam, 0 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Livona(60%)

horizon Ap(0cm to 22cm)

horizon Bw(22cm to 49cm)

horizon Bt1(49cm to 55cm)

horizon 2Bt2(55cm to 69cm)

horizon 2Bk(69cm to 117cm)

horizon 2BC(117cm to 200cm)

Fine sandy loam

Sandy clay loam

Clay loam

Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C360B - Livona fine sandy loam, 0 to 6 percent slopes

Component: Livona (60%)

The Livona component makes up 60 percent of the map unit. Slopes are 0 to 6 percent. This component is on ground moraines on till plains. The parent material consists of eolian deposits over fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY008ND Sandy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The

calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Parshall (12%)

Generated brief soil descriptions are created for major soil components. The Parshall soil is a minor component.

Component: Flaxton (10%)

Generated brief soil descriptions are created for major soil components. The Flaxton soil is a minor component.

Component: Krem (5%)

Generated brief soil descriptions are created for major soil components. The Krem soil is a minor component.

Component: Williams (5%)

Generated brief soil descriptions are created for major soil components. The Williams soil is a minor component.

Component: Tonka (3%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Noonan (3%)

Generated brief soil descriptions are created for major soil components. The Noonan soil is a minor component.

Component: Lehr (2%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Map Unit C370B (0.25%)

Map Unit Name: Krem-Lihen loamy fine sands, 0 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Krem(70%)

horizon Ap(0cm to 17cm)

horizon A(17cm to 51cm)

horizon Bw(51cm to 73cm)

horizon 2Bt(73cm to 100cm)

horizon 2Bk(100cm to 135cm)

horizon 2C(135cm to 200cm)

Loamy fine sand

Loamy fine sand

Clay loam

Clay loam

Clay loam

Lihen(18%)

horizon Ap(0cm to 17cm)

horizon A(17cm to 42cm)

horizon Bw(42cm to 75cm)

horizon C(75cm to 200cm)

Loamy fine sand

Loamy fine sand

Loamy fine sand

Loamy fine sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C370B - Krem-Lihen loamy fine sands, 0 to 6 percent slopes

Component: Krem (70%)

The Krem component makes up 70 percent of the map unit. Slopes are 0 to 6 percent. This component is on ground moraines on till plains. The parent material consists of eolian sands over fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY007ND Sands ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Lihen (18%)

The Lihen component makes up 18 percent of the map unit. Slopes are 0 to 6 percent. This component is on ground moraines on till plains. The parent material consists of sandy glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY007ND Sands ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 2 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Flaxton (4%)

Generated brief soil descriptions are created for major soil components. The Flaxton soil is a minor component.

Component: Parshall (3%)

Generated brief soil descriptions are created for major soil components. The Parshall soil is a minor component.

Component: Arveson (2%)

Generated brief soil descriptions are created for major soil components. The Arveson soil is a minor component.

Component: Williams (2%)

Generated brief soil descriptions are created for major soil components. The Williams soil is a minor component.

Component: Zahl (1%)

Generated brief soil descriptions are created for major soil components. The Zahl soil is a minor component.

Map Unit C3A (0.48%)

Map Unit Name: Parnell silty clay loam, 0 to 1 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 0cm

Drainage Class - Dominant: Very poorly drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high

runoff potential when undrained.

Major components are printed below

Parnell(86%)

horizon A1(0cm to 38cm)

horizon A2(38cm to 56cm)

horizon Btg1(56cm to 81cm)

horizon Btg2(81cm to 140cm)

horizon BCg(140cm to 200cm)

Silty clay loam

Silty clay

Silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C3A - Parnell silty clay loam, 0 to 1 percent slopes

Component: Parnell (86%)

The Parnell component makes up 86 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions on till plains. The parent material consists of local alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 8 percent. This component is in the R053BY025ND Shallow Marsh ecological site. Nonirrigated land capability classification is 5w. This soil meets hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Order No: 23101200256p

Component: Vallers (4%)

Generated brief soil descriptions are created for major soil components. The Vallers soil is a minor component.

Component: Tonka (3%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Component: Southam (3%)

Generated brief soil descriptions are created for major soil components. The Southam soil is a minor component.

Component: Heil (2%)

Generated brief soil descriptions are created for major soil components. The Heil soil is a minor component.

Component: Marysland (2%)

Generated brief soil descriptions are created for major soil components. The Marysland, frequently ponded soil is a minor component.

Map Unit C415A (0.36%)

Map Unit Name: Tansem loam, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Tansem(75%)

horizon Ap(0cm to 19cm)

horizon Bw(19cm to 38cm)

horizon Bk(38cm to 75cm)

horizon C(75cm to 200cm)

Loam

Silt loam

Silt loam

Silt loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C415A - Tansem loam, 0 to 2 percent slopes

Component: Tansem (75%)

The Tansem component makes up 75 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on glacial lakes (relict) on till plains. The parent material consists of loamy glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2c. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 25 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Sakakawea (9%)

Generated brief soil descriptions are created for major soil components. The Sakakawea soil is a minor component.

Component: Roseglen (8%)

Generated brief soil descriptions are created for major soil components. The Roseglen soil is a minor component.

Component: Bearden (3%)

Generated brief soil descriptions are created for major soil components. The Bearden soil is a minor component.

Component: Lehr (2%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Nutley (2%)

Generated brief soil descriptions are created for major soil components. The Nutley soil is a minor component.

Component: Tonka (1%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Map Unit C418B (0.17%)

Map Unit Name: Tansem-Sakakawea loams, 2 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Tansem(70%)

horizon Ap(0cm to 19cm)

horizon Bw(19cm to 38cm)

horizon Bk(38cm to 75cm)

horizon C(75cm to 200cm)

Loam

Silt loam

Silt loam

Sakakawea(15%)

horizon Ap(0cm to 15cm)

horizon Bk(15cm to 67cm)

horizon C1(67cm to 74cm)

horizon C2(74cm to 104cm)

Silty clay loam

Silt loam

Loam

horizon C3(104cm to 200cm) Silty clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C418B - Tansem-Sakakawea loams, 2 to 6 percent slopes

Component: Tansem (70%)

The Tansem component makes up 70 percent of the map unit. Slopes are 2 to 6 percent. This component is on rises on glacial lakes (relict) on till plains. The parent material consists of loamy glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 25 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Sakakawea (15%)

The Sakakawea component makes up 15 percent of the map unit. Slopes are 2 to 6 percent. This component is on rises on glacial lakes (relict) on till plains. The parent material consists of calcareous coarse-silty glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY015ND Thin Loamy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 25 percent. There are no saline horizons within 30 inches of the soil surface.

Order No: 23101200256p

Component: Roseglen (8%)

Generated brief soil descriptions are created for major soil components. The Roseglen soil is a minor component.

Component: Nutley (3%)

Generated brief soil descriptions are created for major soil components. The Nutley soil is a minor component.

Component: Williams (2%)

Generated brief soil descriptions are created for major soil components. The Williams soil is a minor component.

Component: Alkabo (2%)

Generated brief soil descriptions are created for major soil components. The Alkabo soil is a minor component.

Map Unit C424A (0.12%)

Map Unit Name: Minot silty clay, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Minot(65%)

horizon Ap(0cm to 22cm)

horizon Bss(22cm to 49cm)

horizon Bkss(49cm to 85cm)

horizon C(85cm to 200cm)

Silty clay

Silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C424A - Minot silty clay, 0 to 2 percent slopes

Component: Minot (65%)

The Minot component makes up 65 percent of the map unit. Slopes are 0 to 2 percent. This component is on collapsed ice-walled lakebeds on till plains. The parent material consists of clayey glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is very high. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 5 percent. This component is in the R053BY001ND Clayey ecological site. Nonirrigated land capability classification is 2s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Wildrose (13%)

Generated brief soil descriptions are created for major soil components. The Wildrose soil is a minor component.

Component: Tansem (11%)

Generated brief soil descriptions are created for major soil components. The Tansem soil is a minor component.

Component: Makoti (5%)

Generated brief soil descriptions are created for major soil components. The Makoti soil is a minor component.

Component: Sakakawea (4%)

Generated brief soil descriptions are created for major soil components. The Sakakawea soil is a minor component.

Component: Tonka (2%)

Generated brief soil descriptions are created for major soil components. The Tonka soil is a minor component.

Map Unit C480B (0.19%)

Map Unit Name: Shambo loam, 2 to 6 percent slopes

Bedrock Depth - Min: null Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Shambo(70%)

horizon Ap(0cm to 15cm)

horizon A(15cm to 20cm)

horizon Bw1(20cm to 33cm)

horizon Bw2(33cm to 72cm)

horizon Bk(72cm to 107cm)

horizon BCk(107cm to 122cm)

Loam

horizon C(122cm to 200cm)

Loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C480B - Shambo loam, 2 to 6 percent slopes

Component: Shambo (70%)

The Shambo component makes up 70 percent of the map unit. Slopes are 2 to 6 percent. This component is on terraces on uplands. The parent material consists of local alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Arnegard (13%)

Generated brief soil descriptions are created for major soil components. The Arnegard soil is a minor component.

Component: Stady (8%)

Generated brief soil descriptions are created for major soil components. The Stady soil is a minor component.

Component: Tally (4%)

Generated brief soil descriptions are created for major soil components. The Tally soil is a minor component.

Component: Savage (3%)

Generated brief soil descriptions are created for major soil components. The Savage soil is a minor component.

Component: Lehr (2%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Map Unit C584A (0.06%)

Map Unit Name: Harriet loam, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 23cm

Drainage Class - Dominant: Poorly drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high

runoff potential when undrained.

Major components are printed below

Harriet(76%)

horizon E(0cm to 6cm)
Loam
horizon Btnz1(6cm to 48cm)
Clay loam
horizon Btnz2(48cm to 80cm)
Clay loam
horizon Bknzg(80cm to 97cm)
Clay loam
horizon Cg(97cm to 200cm)
Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C584A - Harriet loam, 0 to 2 percent slopes

Component: Harriet (76%)

The Harriet, occasionally flooded component makes up 76 percent of the map unit. Slopes are 0 to 2 percent. This component is on drainageways on till plains. The parent material consists of local alluvium. Depth to a root restrictive layer, natric, is 1 to 5 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is moderate. This soil is occasionally flooded. It is rarely ponded. A seasonal zone of water saturation is at 9 inches during March, April, May, June. Organic matter content in the surface horizon is

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about 2 percent. This component is in the R053BY006ND Saline Lowland ecological site. Nonirrigated land capability classification is 6s. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. The soil has a moderately saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 19 within 30 inches of the soil surface.

Component: Ranslo (7%)

Generated brief soil descriptions are created for major soil components. The Ranslo soil is a minor component.

Component: Fluvaquents (5%)

Generated brief soil descriptions are created for major soil components. The Fluvaquents soil is a minor component.

Component: Lowe (5%)

Generated brief soil descriptions are created for major soil components. The Lowe soil is a minor component.

Component: Marysland (3%)

Generated brief soil descriptions are created for major soil components. The Marysland soil is a minor component.

Component: Stirum (2%)

Generated brief soil descriptions are created for major soil components. The Stirum soil is a minor component.

Component: Straw (2%)

Generated brief soil descriptions are created for major soil components. The Straw soil is a minor component.

Map Unit C5A (0.38%)

Map Unit Name: Southam silty clay loam, 0 to 1 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 0cm

Drainage Class - Dominant: Very poorly drained

Hydrologic Group - Dominant: C/D - These soils have moderately high runoff potential when drained and high

runoff potential when undrained.

Major components are printed below

Southam(78%)

horizon A(0cm to 10cm)

horizon Ag1(10cm to 46cm)

horizon Ag2(46cm to 107cm)

horizon Cg(107cm to 200cm)

Silty clay

Silty clay

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C5A - Southam silty clay loam, 0 to 1 percent slopes

Component: Southam (78%)

The Southam component makes up 78 percent of the map unit. Slopes are 0 to 1 percent. This component is on marshes on till plains. The parent material consists of local alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is high. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, July, August, September, October, November, December. Organic matter content in the surface horizon is about 10 percent. This component is in the R053BY900ND Not Assigned ecological site. Nonirrigated land capability classification is 8w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 10 percent. The soil has a slightly saline horizon within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

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Component: Parnell (6%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Component: Water (5%)

Generated brief soil descriptions are created for major soil components. The Water soil is a minor component.

Component: Vallers (5%)

Generated brief soil descriptions are created for major soil components. The Vallers soil is a minor component.

Component: Marysland (3%)

Generated brief soil descriptions are created for major soil components. The Marysland soil is a minor component.

Component: Minnewaukan (3%)

Generated brief soil descriptions are created for major soil components. The Minnewaukan soil is a minor component.

Map Unit C800B (3.73%)

Map Unit Name: Appam sandy loam, 2 to 6 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat excessively drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Major components are printed below

Appam(81%)

horizon Ap(0cm to 15cm)

horizon Bw(15cm to 38cm)

horizon Bk(38cm to 48cm)

Sandy loam

Sandy loam

horizon 2C(48cm to 200cm) Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C800B - Appam sandy loam, 2 to 6 percent slopes

Component: Appam (81%)

The Appam component makes up 81 percent of the map unit. Slopes are 2 to 6 percent. This component is on rises on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY008ND Sandy ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Wabek (7%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Bowdle (4%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Lihen (4%)

Generated brief soil descriptions are created for major soil components. The Lihen soil is a minor component.

Component: Divide (2%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Component: Lehr (1%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Arveson (1%)

Generated brief soil descriptions are created for major soil components. The Arveson soil is a minor component.

Map Unit C810A (0.16%)

Map Unit Name: Bowdle loam, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Bowdle(76%)

horizon Ap(0cm to 20cm)

horizon Bw(20cm to 56cm)

Loam

horizon Bk(56cm to 64cm)

Gravelly loam

horizon 2C1(64cm to 76cm)

Very gravelly loamy coarse sand
horizon 2C2(76cm to 200cm)

Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C810A - Bowdle loam, 0 to 2 percent slopes

Component: Bowdle (76%)

The Bowdle component makes up 76 percent of the map unit. Slopes are 0 to 2 percent. This component is on swales on outwash plains. The parent material consists of loamy alluvium over sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. This component is in the R053BY011ND Loamy ecological site. Nonirrigated land capability classification is 3s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 20 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Lehr (10%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Wabek (5%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Arnegard (3%)

Generated brief soil descriptions are created for major soil components. The Arnegard soil is a minor component.

Component: Divide (2%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Component: Appam (2%)

Generated brief soil descriptions are created for major soil components. The Appam soil is a minor component.

Component: Ruso (2%)

Generated brief soil descriptions are created for major soil components. The Ruso soil is a minor component.

Map Unit C816B (0.74%)

Map Unit Name: Lehr loam, 2 to 6 percent slopes

Bedrock Depth - Min: null Watertable Depth - Annual Min: null

Drainage Class - Dominant: Somewhat excessively drained

Hydrologic Group - Dominant:

B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Major components are printed below

Lehr(69%)

horizon Ap(0cm to 15cm) Loam

horizon Bw(15cm to 28cm) Loam horizon Bk1(28cm to 38cm) Loam

horizon 2Bk2(38cm to 56cm)

Gravelly loamy coarse sand horizon 2C(56cm to 200cm)

Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C816B - Lehr loam, 2 to 6 percent slopes

Component: Lehr (69%)

The Lehr component makes up 69 percent of the map unit. Slopes are 2 to 6 percent. This component is on rises on outwash plains. The parent material consists of loamy alluvium over sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY010ND Shallow Gravel ecological site. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Wabek (13%)

Generated brief soil descriptions are created for major soil components. The Wabek soil is a minor component.

Component: Bowdle (9%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Arnegard (4%)

Generated brief soil descriptions are created for major soil components. The Arnegard soil is a minor component.

Component: Ruso (3%)

Generated brief soil descriptions are created for major soil components. The Ruso soil is a minor component.

Component: Divide (2%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Map Unit C825A (0.22%)

Map Unit Name: Divide loam, 0 to 2 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 76cm

Drainage Class - Dominant: Somewhat poorly drained

Hydrologic Group - Dominant: C - Soils in this group have moderately high runoff potential when thoroughly

wet. Water transmission through the soil is somewhat restricted.

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Major components are printed below

Divide(65%)

horizon Ap(0cm to 20cm)

horizon Ak(20cm to 30cm)

horizon Bk(30cm to 64cm)

Loam

horizon 2C1(64cm to 76cm) Gravelly loamy coarse sand horizon 2C2(76cm to 200cm) Gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C825A - Divide loam, 0 to 2 percent slopes

Component: Divide (65%)

The Divide component makes up 65 percent of the map unit. Slopes are 0 to 2 percent. This component is on flats on outwash plains. The parent material consists of local alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is

somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during April, May, June. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY004ND Limy Subirrigated ecological site. Nonirrigated land capability classification is 2s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 25 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Wyrene (12%)

Generated brief soil descriptions are created for major soil components. The Wyrene soil is a minor component.

Component: Hamerly (6%)

Generated brief soil descriptions are created for major soil components. The Hamerly soil is a minor component.

Component: Marysland (6%)

Generated brief soil descriptions are created for major soil components. The Marysland soil is a minor component.

Component: Bowdle (5%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Lowe (4%)

Generated brief soil descriptions are created for major soil components. The Lowe soil is a minor component.

Component: Lehr (2%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Map Unit C870E (3.2%)

Map Unit Name: Wabek-Lehr-Appam complex, 9 to 25 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Excessively drained

Hydrologic Group - Dominant: B - Soils in this group have moderately low runoff potential when thoroughly

wet. Water transmission through the soil is unimpeded.

Order No: 23101200256p

Major components are printed below

Wabek(50%)

horizon A(0cm to 15cm) Loam

horizon Bk(15cm to 26cm)

horizon C(26cm to 200cm)

Gravelly coarse sandy loam

Very gravelly coarse sand

Lehr(19%)

horizon A(0cm to 15cm)
Loam
horizon Bw(15cm to 28cm)
Loam
horizon Bk1(28cm to 38cm)
Loam

horizon 2Bk2(38cm to 56cm) Gravelly loamy coarse sand horizon 2C(56cm to 200cm) Very gravelly coarse sand

Appam(17%)

horizon A(0cm to 15cm)

Sandy loam

horizon Bw(15cm to 38cm)

Sandy loam

horizon Bk(38cm to 48cm)

Sandy loam

horizon 2C(48cm to 200cm) Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C870E - Wabek-Lehr-Appam complex, 9 to 25 percent slopes

Component: Wabek (50%)

The Wabek component makes up 50 percent of the map unit. Slopes are 9 to 25 percent. This component is on ridges on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is moderately high. Available

water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY017ND Very Shallow ecological site. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Lehr (19%)

The Lehr component makes up 19 percent of the map unit. Slopes are 9 to 25 percent. This component is on ridges on outwash plains. The parent material consists of loamy alluvium over sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY010ND Shallow Gravel ecological site. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 8 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Appam (17%)

The Appam component makes up 17 percent of the map unit. Slopes are 9 to 15 percent. This component is on hills on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY008ND Sandy ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Bowdle (8%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Divide (4%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Component: Parnell (2%)

Generated brief soil descriptions are created for major soil components. The Parnell soil is a minor component.

Map Unit C874C (0.86%)

Map Unit Name: Wabek-Appam complex, 6 to 9 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Excessively drained

Hydrologic Group - Dominant: A - Soils in this group have low runoff potential when thoroughly wet. Water is

transmitted freely through the soil.

Major components are printed below

Wabek(59%)

horizon A(0cm to 13cm)

Gravelly sandy loam

horizon Bk(13cm to 26cm)

Gravelly coarse sandy loam

horizon C(26cm to 200cm) Very gravelly coarse sand

Appam(25%)

horizon Ap(0cm to 15cm)

Sandy loam
horizon Bw(15cm to 38cm)

Sandy loam
horizon Bk(38cm to 48cm)

Sandy loam

horizon 2C(48cm to 200cm) Very gravelly coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C874C - Wabek-Appam complex, 6 to 9 percent slopes

Component: Wabek (59%)

The Wabek component makes up 59 percent of the map unit. Slopes are 6 to 9 percent. This component is on rises on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R053BY017ND Very Shallow ecological site. Nonirrigated land capability classification is 6s. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 5 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Appam (25%)

The Appam component makes up 25 percent of the map unit. Slopes are 6 to 9 percent. This component is on knolls on outwash plains. The parent material consists of sandy and gravelly glaciofluvial deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. This component is in the R053BY008ND Sandy ecological site. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 7 percent. There are no saline horizons within 30 inches of the soil surface.

Component: Lehr (6%)

Generated brief soil descriptions are created for major soil components. The Lehr soil is a minor component.

Component: Bowdle (5%)

Generated brief soil descriptions are created for major soil components. The Bowdle soil is a minor component.

Component: Ruso (2%)

Generated brief soil descriptions are created for major soil components. The Ruso soil is a minor component.

Component: Divide (2%)

Generated brief soil descriptions are created for major soil components. The Divide soil is a minor component.

Component: Marysland (1%)

Generated brief soil descriptions are created for major soil components. The Marysland soil is a minor component.

Map Unit C990F (0.11%)

Map Unit Name: Pits, gravel and sand, 0 to 60 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: null

Drainage Class - Dominant: Excessively drained

Hydrologic Group - Dominant: null

Major components are printed below

Pits(70%)

horizon H1(0cm to 15cm) Extremely gravelly sand horizon H2(15cm to 152cm) Extremely gravelly sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C990F - Pits, gravel and sand, 0 to 60 percent slopes

Component: Pits (70%)

Generated brief soil descriptions are created for major soil components. The Pits, gravel and sand is a miscellaneous area.

Order No: 23101200256p

Component: Wabek (10%)

Generated brief soil descriptions are created for major components. The Wabek soil is a minor component.

Component: Water (5%)

Generated brief soil descriptions are created for major components. The Water soil is a minor component.

Component: Bowdle (5%)

Generated brief soil descriptions are created for major components. The Bowdle soil is a minor component.

Component: Lehr (5%)

Generated brief soil descriptions are created for major components. The Lehr soil is a minor component.

Component: Appam (5%)

Generated brief soil descriptions are created for major components. The Appam soil is a minor component.

Map Unit C996 (3.11%)

Map Unit Name: Water

No more attributes available for this map unit

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C996 - Water

Component: Water (100%)

Generated brief soil descriptions are created for major soil components. The Water is a miscellaneous area.

Map Unit C999F (16.43%)

Map Unit Name: Orthents-Aquents-Urban land, highway complex, 0 to 35 percent slopes

Bedrock Depth - Min: null
Watertable Depth - Annual Min: 30cm

Drainage Class - Dominant: Well drained

Hydrologic Group - Dominant: D - Soils in this group have high runoff potential when thoroughly wet. Water

movement through the soil is restricted or very restricted.

Major components are printed below

Orthents(39%)

horizon A(0cm to 10cm)

horizon C(10cm to 152cm)

Loam

Clay loam

Aquents(18%)

horizon H1(0cm to 5cm) Loam horizon H2(5cm to 152cm) Loam

Orthents(17%)

horizon A(0cm to 10cm) Loam horizon C(10cm to 152cm) Clay loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: C999F - Orthents-Aquents-Urban land, highway complex, 0 to 35 percent slopes

Component: Orthents (39%)

The Orthents component makes up 39 percent of the map unit. Slopes are 6 to 35 percent. This component is on scalped areas on till plains, cuts (road, railroad, etc.) on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer, densic material, is 4 to 16 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

Component: Aquents (18%)

The Aquents component makes up 18 percent of the map unit. Slopes are 0 to 3 percent. This component is on swales on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during March, April, May. Organic matter content in the surface horizon is about 6 percent. This component is in the R053BY999ND Non-site ecological site. Nonirrigated land capability classification is 4w. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 30 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 3 within 30 inches of the soil surface.

Component: Orthents (17%)

The Orthents component makes up 17 percent of the map unit. Slopes are 0 to 6 percent. This component is on scalped areas on till plains, cuts (road, railroad, etc.) on till plains. The parent material consists of fine-loamy till. Depth to a root restrictive layer, densic material, is 4 to 16 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 15 percent. The soil has a maximum sodium adsorption ratio of 2 within 30 inches of the soil surface.

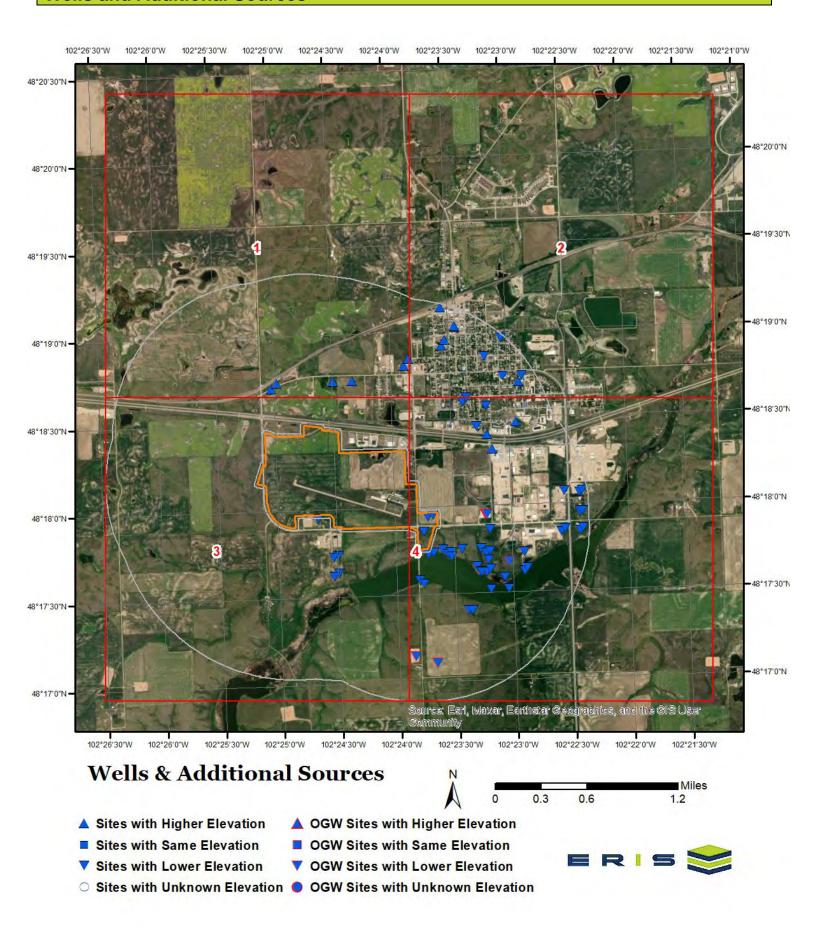
Component: Urban land (17%)

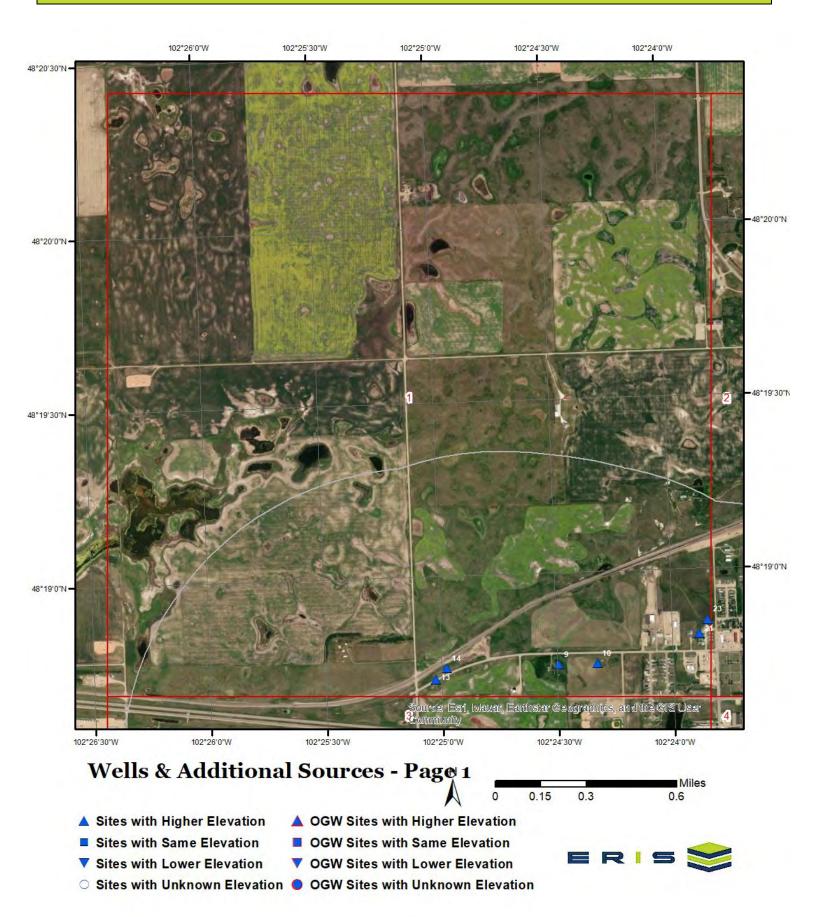
Generated brief soil descriptions are created for major soil components. The Urban land is a miscellaneous area.

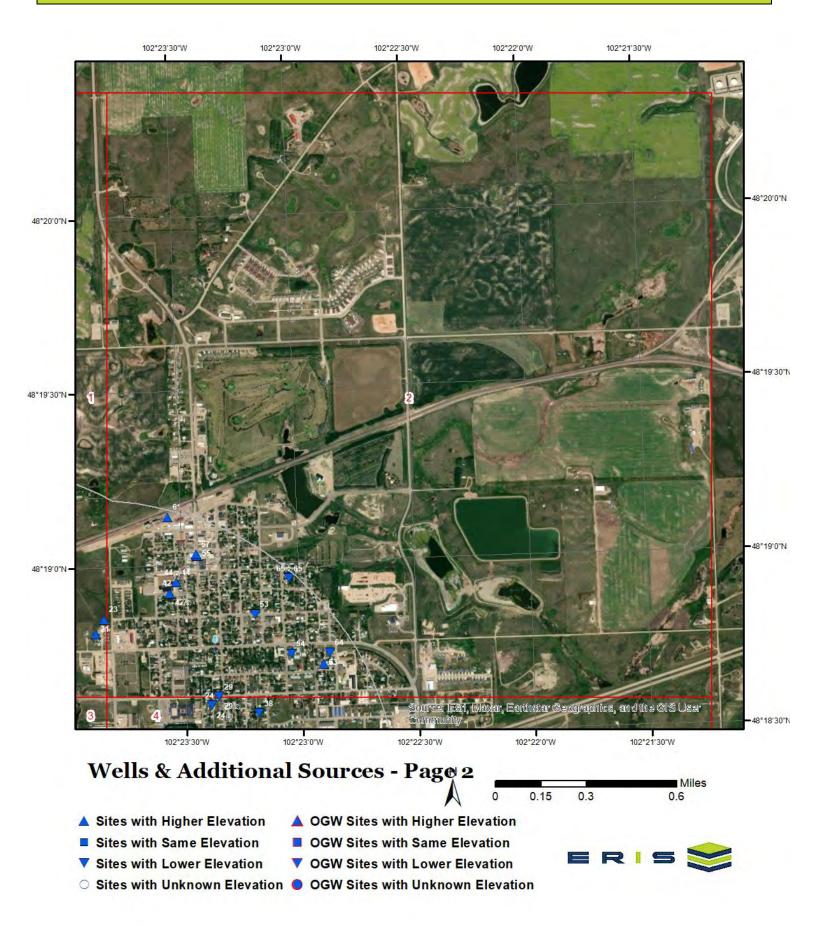
Component: Haplustolls (9%)

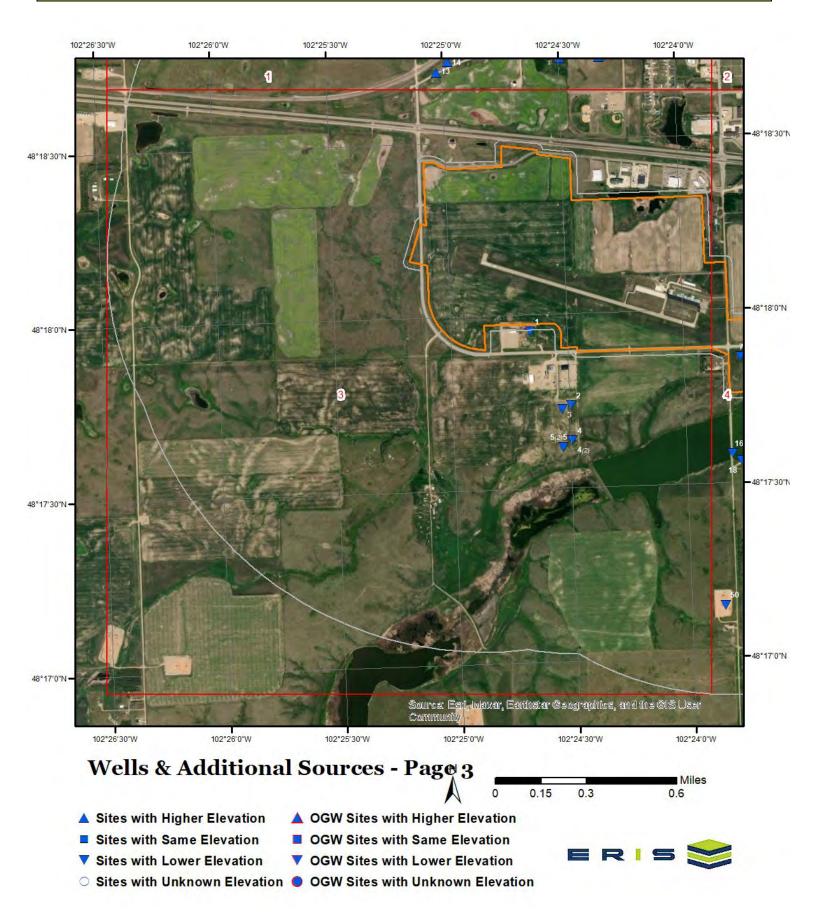
Generated brief soil descriptions are created for major components. The Haplustolls soil is a minor component.

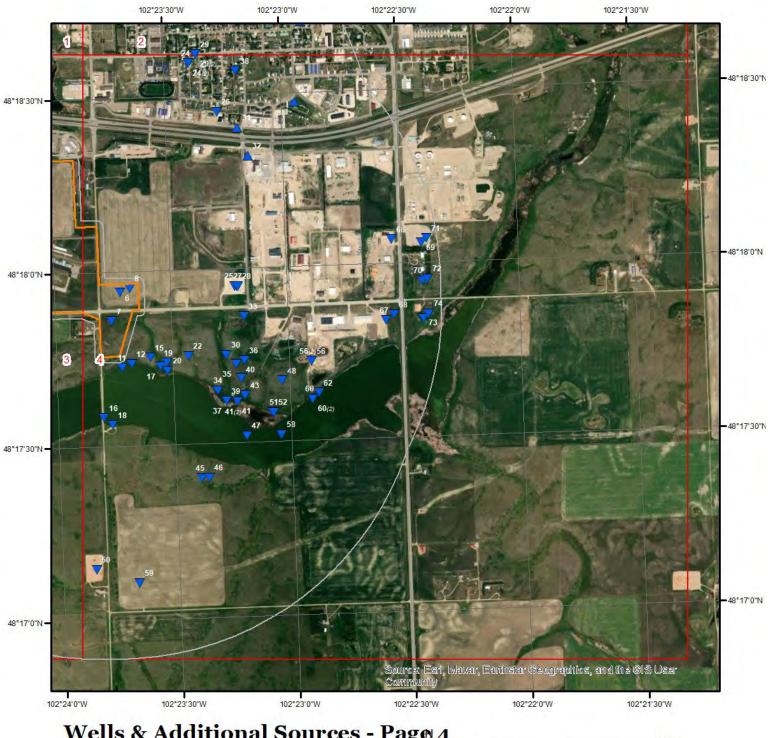
Order No: 23101200256p













- ▲ Sites with Higher Elevation
- Sites with Same Elevation
- ▼ Sites with Lower Elevation
- ▲ OGW Sites with Higher Elevation
- OGW Sites with Same Elevation
- ▼ OGW Sites with Lower Elevation
- O Sites with Unknown Elevation OGW Sites with Unknown Elevation



Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Мар Кеу	PWS ID	Distance (ft)	Direction	
55	ND3100898	4659.69	NE	

Safe Drinking Water Information System (SDWIS)

Мар Кеу	PWS ID	Distance (ft)	
57	ND3100898	4684 64	NF

USGS National Water Information System

Мар Кеу	Site No	Distance (ft)	Direction
1	USGS-481757102243801	137.51	SSW
2	USGS-481744102242801	958.17	S
4	USGS-481738102242801	1562.46	S
4	USGS-481738102242802	1562.46	S
8	USGS-481757102233901	0.00	-
9	USGS-481844102242801	1651.45	N
10	USGS-481844102241801	1833.03	N
12	USGS-481744102233901	265.14	SE
14	USGS-481844102245701	1742.88	NNW
19	USGS-481744102233001	834.43	ESE
23	USGS-481851102234901	3210.19	NNE
26	USGS-938061000000011	2656.35	ENE
29	USGS-481837102232002	2834.78	NE
29	USGS-481837102232001	2834.78	NE
36	USGS-481744102231001	2045.50	ESE
43	USGS-481738102231002	2309.72	ESE
43	USGS-481738102231001	2309.72	ESE
44	USGS-481857102233002	4104.21	NE
44	USGS-481857102233001	4104.21	NE
46	USGS-481724102232001	2643.12	SE
47	USGS-481731102231001	2627.82	SE
53	USGS-481851102231001	4306.24	NE
54	USGS-481844102230101	4287.38	NE
58	USGS-481731102230101	3151.89	ESE
62	USGS-481738102225101	3466.44	ESE
64	USGS-481844102225101	4853.53	ENE
65	USGS-481857102230102	5165.43	NE
65	USGS-481857102230101	5165.43	NE
66	USGS-481804102223101	4495.98	Е
68	USGS-481751102223101	4457.20	Е
71	USGS-481804102222201	5099.51	Е
7 2	USGS-481757102222201	5061.59	Е
74	USGS-481751102222201	5065.06	Е
Wells from NWI	s		
Map Key	ID	Distance (ft)	Direction

No records found

Wells and Additional Sources Summary

State Sources

Gas Plant Facilities

Map Key Distance (ft) Direction

No records found

Oil and Gas Wells

Map Key	API No.	Distance (ft)	Direction	
			_	
25	33-061-02430-00-00	1691.17	E	
27	33-061-02429-00-00	1716.19	E	
28	33-061-01838-00-00	1741.21	E	
48	33-061-00317-00-00	2799.86	ESE	
50	33-061-01011-00-00	3722.56	SSE	
59	33-061-00329-00-00	3980.10	SSE	

Underground Injection Control Wells

Distance (ft) Direction Map Key

No records found

Water Wells Database

Map Key	SWC Well No	Distance (ft)	Direction
2		1052.17	c
3	597	1696.16	S S
5	597 596		S
5	604	1696.16	5
6 7	12443	0.00	-
7 11	566	0.00 212.31	- SE
	200		
13	10110	1561.40	NW
15	12442	536.05	ESE
16	505	1072.09	SE
17	565	744.78	ESE
18		1200.72	SE
20	12452	889.15	ESE
21		2955.40	NNE
22	12444	1162.42	ESE
24	598	2638.72	NE
24		2638.72	NE
30	12441	1720.74	ESE
31		2935.57	ENE
32		2917.99	ENE
33	12445	1840.43	ESE
34	12451	1830.20	ESE
35	563	1946.09	ESE
37	12440	2028.95	ESE
38		3247.31	ENE
39	12439	2040.69	ESE
40	12450	2151.17	ESE
41		2211.30	ESE
41	562	2211.30	ESE
42		3886.66	NE
42		3886.66	NE
45	567	2575.84	SE
49	12644	4015.13	ENE
58	erisinfo.com Environmental Risk Information Services		Order No: 23101200256p

Wells and Additional Sources Summary

51	12449	2853.05	ESE
52	12448	2870.95	ESE
56	12438	3149.95	ESE
56	12437	3149.95	ESE
60	564	3416.57	ESE
60	12447	3416.57	ESE
61		5150.50	NNE
63		4658.32	ENE
67	12446	4320.67	ESE
69	557	4997.65	Е
70	558	4967.86	Е
73		4977.20	E

Public Water Systems Violations and Enforcement Data

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
55	NE	0.88	4,659.69	2,245.57	PWSV

Address Line 2: PO BOX 249

State Code: ND Zip Code: 58784 City Name: **STANLEY**

Address Line 1: 221 SOUTH MAIN

PWS ID: ND3100898

PWS Type Code: **CWS**

PWS Type Description: Community Water System

Primary Source Code: **SWP**

Primary Source Desc: **Purchased Surface Water**

PWS Activity Code: Active PWS Activity Description:

PWS Deactivation Date:

Phone Number: 701-628-2225

--Details--

Population Served Count: 1458 **STANLEY** City Served: County Served: Mountrail State Served: ND

Zip Code Served:

Safe Drinking Water Information System (SDWIS)

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
57	NE	0.89	4,684.64	2,246.39	SDWIS

PWS ID: ND3100898

PWS Type: Community water system

No of Facilities: 7 No of Violations: No of Site Visits: 14

Cities Served: **STANLEY** Counties Served: Mountrail Population Served Count: 2,686

Primacy Agency: North Dakota EPA Region: Region 8

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	SSW	0.03	137.51	2,232.91	FED USGS
60	erisinfo.com Environmental Risk Information Services			Order N	lo: 23101200256p

Site No: USGS-481757102243801

Site Type: Well

Formation Type: Date Drilled:

Well Depth: 70
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-29CDC

 Latitude:
 48.29918517000000

 Longitude:
 -102.41100800000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	S	0.18	958.17	2.225.35	FED USGS

Site No: USGS-481744102242801

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth: Well Depth Unit:

Well Hole Depth: 80
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-32BAD

 Latitude:
 48.2955739

 Longitude:
 -102.4082302

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	S	0.30	1,562.46	2,203.17	FED USGS

Site No: USGS-481738102242801

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth: Well Depth Unit:

Well Hole Depth: 70
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-32BDA1

 Latitude:
 48.2939072

 Longitude:
 -102.4082302

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	S	0.30	1,562.46	2.203.17	FED USGS

Site No: USGS-481738102242802

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 20
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-32BDA2

 Latitude:
 48.2939072

 Longitude:
 -102.4082302

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	-	0.00	0.00	2,235.17	FED USGS

Site No: USGS-481757102233901

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth: Well Depth Unit:

Well Hole Depth: 350
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-28CCC

 Latitude:
 48.2991851

 Longitude:
 -102.3946185

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	N	0.31	1,651.45	2,267.42	FED USGS

Order No: 23101200256p

Site No: USGS-481844102242801

Site Type: Well

Formation Type: Buried Glaciofluvial Deposits

Date Drilled: 19020101
Well Depth: 52
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-29BAA

 Latitude:
 48.31224118000000

 Longitude:
 -102.4082301000000

 Map Key
 Direction
 Distance (mi)
 Distance (ft)
 Elevation (ft)
 DB

 10
 N
 0.35
 1,833.03
 2,266.40
 FED USGS

Site No: USGS-481844102241801

Site Type: Well

Formation Type:

Date Drilled: 19020101
Well Depth: 100
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-29ABB

 Latitude:
 48.31224117000000

 Longitude:
 -102.4054522000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB12SE0.05265.142,160.08FED USGS

Site No: USGS-481744102233901

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth: Well Depth Unit:

......

Well Hole Depth: 30
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-33BBC

 Latitude:
 48.2955739

 Longitude:
 -102.3946185

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB14NNW0.331,742.882,289.75FED USGS

Order No: 23101200256p

Site No: USGS-481844102245701

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 350 Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

Station Name: 156-091-29BBB Latitude: 48.3122412 Longitude: -102.416286

Map Key **Direction** Distance (mi) Distance (ft) **Elevation (ft)** DB 19 **ESE** 834.43 2,173.95 FED USGS 0.16

Site No: USGS-481744102233001

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth: Well Depth Unit:

Well Hole Depth: 20 ft Well Hole Depth Unit:

USGS North Dakota Water Science Center Reporting Agency:

Station Name: 156-091-33BBD Latitude: 48.2955739 Longitude: -102.3921184

Map Key **Direction** Distance (mi) Distance (ft) Elevation (ft) DB NNE **FED USGS** 23 0.61 3,210.19 2,243.90

Site No: USGS-481851102234901

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth: Well Depth Unit:

Well Hole Depth: 70 Well Hole Depth Unit:

USGS North Dakota Water Science Center Reporting Agency:

Station Name: 156-091-20DDD Latitude: 48.3141857 Longitude: -102.3973963

Map Key Direction Distance (mi) Distance (ft) Elevation (ft) DB 26 **ENE** 0.50 2,656.35 2,238.15 **FED USGS**

Order No: 23101200256p

Site No: USGS-938061000000011

Site Type: Facility: Water-distribution system

Formation Type:

Date Drilled:
Well Depth:
Well Depth Unit:
Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

Station Name: STANLEY WATERWORKS

Latitude: 48.3075187 Longitude: -102.3879515

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB29NE0.542,834.782,230.28FED USGS

Site No: USGS-481837102232002

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 350
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-28BAC2

 Latitude:
 48.3102966

 Longitude:
 -102.3893404

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB29NE0.542,834.782,230.28FED USGS

Site No: USGS-481837102232001

Site Type: Well

Formation Type:

Date Drilled: 19530101
Well Depth: 185
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-28BAC1

 Latitude:
 48.31029660000000

 Longitude:
 -102.3893404000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB36ESE0.392,045.502,184.43FED USGS

Order No: 23101200256p

Site No: USGS-481744102231001

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:

Well Depth Unit:

Well Hole Depth: 60
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-33BAD

 Latitude:
 48.2955739

 Longitude:
 -102.3865626

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	ESE	0 44	2 309 72	2 165 67	FED USGS

Site No: USGS-481738102231002

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 50
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-33BDA2

 Latitude:
 48.2939071

 Longitude:
 -102.3865626

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	ESE	0.44	2.309.72	2.165.67	FED USGS

Site No: USGS-481738102231001

Site Type: Well
Formation Type: Outwash

Date Drilled:

Well Depth: 11
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-33BDA1

 Latitude:
 48.29390710000000

 Longitude:
 -102.3865626000000

Map Key Direction Distance (mi) Distance (ft) Elevation (ft) DB

Order No: 23101200256p

44 NE 0.78 4,104.21 2,246.44 FED USGS

Site No: USGS-481857102233002

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth: Well Depth Unit:

Well Hole Depth: 60
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-21CCA2

 Latitude:
 48.3158524

 Longitude:
 -102.3921183

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB44NE0.784,104.212,246.44FED USGS

Site No: USGS-481857102233001

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 70
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-21CCA1

 Latitude:
 48.3158524

 Longitude:
 -102.3921183

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
46	SE	0.50	2,643.12	2,186.57	FED USGS

Site No: USGS-481724102232001

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 80
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

Station Name: 156-091-33CAB Latitude: 48.2900181

Longitude: -102.3893405

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB47SE0.502,627.822,156.53FED USGS

Site No: USGS-481731102231001
Site Type: Lake, Reservoir, Impoundment

Formation Type:
Date Drilled:
Well Depth:
Well Depth Unit:
Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center Station Name: STANLEY RESERVIOR AT STANLEY, ND

Latitude: 48.29196260000000 Longitude: -102.3865626000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB53NE0.824,306.242,223.49FED USGS

Site No: USGS-481851102231001

Site Type: Well

Formation Type:

Date Drilled: 19240101

Well Depth: 48
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-21CDD

 Latitude:
 48.31418560000000

 Longitude:
 -102.3865625000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB54NE0.814,287.382,236.50FED USGS

Order No: 23101200256p

Site No: USGS-481844102230101

Site Type: Well

Formation Type:

Date Drilled: 19280101

Well Depth: 26
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-28ABB

 Latitude:
 48.31224110000000

 Longitude:
 -102.3840624000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
58	ESE	0.60	3,151.89	2,156.53	FED USGS

Site No: USGS-481731102230101

Site Type: Well

Formation Type:

Date Drilled: 19640101

Well Depth: 25
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-33ACC

 Latitude:
 48.29196260000000

 Longitude:
 -102.38406250000000

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
62	ESE	0.66	3,466.44	2,160.40	FED USGS

Site No: USGS-481738102225101

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 20
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-33ACA

 Latitude:
 48.2939071

 Longitude:
 -102.3812846

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
64	FNF	0 92	4 853 53	2 239 10	FED USGS

Order No: 23101200256p

Site No: USGS-481844102225101

Site Type: Well

Formation Type:

Date Drilled: 19490101 Well Depth: 190

Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-28ABA

 Latitude:
 48.31224109000000

 Longitude:
 -102.3812845000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB65NE0.985,165.432,227.17FED USGS

Site No: USGS-481857102230102

Site Type: Well

Formation Type:

Date Drilled: 19490101

Well Depth: 20
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-21DCB2

 Latitude:
 48.31585230000000

 Longitude:
 -102.3840624000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB65NE0.985,165.432,227.17FED USGS

Site No: USGS-481857102230101

Site Type: Well

Formation Type: Buried Glaciofluvial Deposits

Date Drilled: 19220101

Well Depth: 50
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-21DCB1

 Latitude:
 48.31585230000000

 Longitude:
 -102.3840624000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB66E0.854,495.982,203.57FED USGS

Site No: USGS-481804102223101

Site Type: Well

Formation Type:

Date Drilled: 19250101

Well Depth: 26
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-28DDA

 Latitude:
 48.30112957000000

 Longitude:
 -102.3757287000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB68E0.844,457.202,189.38FED USGS

Site No: USGS-481751102223101

Site Type: Well

Formation Type: Date Drilled:

Well Depth: 68
Well Depth Unit: ft

Well Hole Depth:
Well Hole Depth Unit:

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-33AAA

 Latitude:
 48.29751830000000

 Longitude:
 -102.37572880000000

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB71E0.975,099.512,211.74FED USGS

Site No: USGS-481804102222201

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 60
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-27CCB

 Latitude:
 48.3011296

 Longitude:
 -102.3732286

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB72E0.965,061.592,193.81FED USGS

Order No: 23101200256p

Site No: USGS-481757102222201

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 40
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-27CCC

 Latitude:
 48.299185

 Longitude:
 -102.3732286

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
74	E	0.96	5.065.06	2.172.51	FED USGS

Site No: USGS-481751102222201

Site Type: Well

Formation Type:

Date Drilled: 19520101

Well Depth:
Well Depth Unit:

Well Hole Depth: 20
Well Hole Depth Unit: ft

Reporting Agency: USGS North Dakota Water Science Center

 Station Name:
 156-091-34BBB

 Latitude:
 48.2975183

 Longitude:
 -102.3732287

Oil and Gas Wells

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	Е	0.32	1,691.17	2,204.12	OGW
API No.:	33-06	61-02430-00-00	Feet NS:	360	
API:	3306	1024300000	FNSL:	S	
Fileno:	2502	2	FNSL Desc:	From South Line	
Status:	PNC		Feet EW:	2340	
Status Desc:	Perm	it Now Cancelled	FEWL:	W	
Operator:	HESS LLC	S BAKKEN INVESTMENTS I	I, FEWL Desc:	From West Line	
Well Name:		NLEY 2821-3H	Latitude:	48.29914057	
TD:	0		Longitude:	-102.38707399	
SPUD Date:			Well Type:	OG	
Field Name:	ROS	S	Well Type Desc:	Oil or Gas Well	
Quarter Quarter:	SESV	V	Symbol:	PNC-OG	

Order No: 23101200256p

Section: 28 Symbol Desc: Township: Date Created: 156 Range: 91 Date Modified:

County: MOUNTRAIL Scribe:

MOUNTRAIL

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	Е	0.33	1,716.19	2,203.12	OGW
ABIAI		.,	5	222	
API No.:		31-02429-00-00	Feet NS:	360	
API:	3306	1024290000	FNSL:	S	
Fileno:	25020	0	FNSL Desc:	From South Line	
Status:	PNC		Feet EW:	2365	
Status Desc:	Perm	it Now Cancelled	FEWL:	W	
Operator:	HESS LLC	BAKKEN INVESTMENTS	S II, FEWL Desc:	From West Line	
Well Name:	STAN	ILEY 2821-5H	Latitude:	48.29914093	
TD:	0		Longitude:	-102.38697119	
SPUD Date:			Well Type:	OG	
Field Name:	ROS	3	Well Type Desc:	Oil or Gas Well	
Quarter Quarter:	SESV	V	Symbol:	PNC-OG	
Section:	28		Symbol Desc:		
Township:	156		Date Created:		
Range:	91		Date Modified:		

Scribe:

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	E	0.33	1,741.21	2,202.15	OGW
API No.:	33-06	61-01838-00-00	Feet NS:	360	
API:	3306	1018380000	FNSL:	S	
Fileno:	2130	4	FNSL Desc:	From South Line	
Status:	Α		Feet EW:	2390	
Status Desc:	Active	е	FEWL:	W	
Operator:	HESS BAKKEN INVESTMENTS II, LLC		S II, FEWL Desc:	From West Line	
Well Name:	STAN	NLEY 28-21-156-91H	Latitude:	48.29914129	
TD:	1906	5	Longitude:	-102.3868684	
SPUD Date:	27-No	ov-2011	Well Type:	OG	
Field Name:	ROS	S	Well Type Desc:	Oil or Gas Well	
Quarter Quarter:	SESV	N	Symbol:	A-OG	
Section:	28		Symbol Desc:		
Township:	156		Date Created:		
Range:	91		Date Modified:		
County:	MOU	NTRAIL	Scribe:		

Distance (ft)

Elevation (ft)

DB

OGW

Distance (mi)

Direction

48

Map Key

County:

API No.: 33-061-00317-00-00 Feet NS: 1325 API: 33061003170000 FNSL: N

Fileno: 10684 FNSL Desc: From North Line

Status: DRY Feet EW: 2126
Status Desc: FEWL: E

Operator:MILESTONE PETROLEUM, INC.FEWL Desc:From East LineWell Name:BN 32-33Latitude:48.29453303TD:8260Longitude:-102.38388242

SPUD Date: 04-Mar-1984 Well Type: OG

Field Name: STANLEY Well Type Desc: Oil or Gas Well Quarter Quarter: SWNE Symbol: DRY-OG

Section:33Symbol Desc:Township:156Date Created:Range:91Date Modified:

County: MOUNTRAIL Scribe:

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	SSE	0.71	3,722.56	2,228.29	OGW
API No.:	33-061-01011-00-00		Feet NS:	770	
API:	33061010110000		FNSL:	S	
Fileno:	18059		FNSL Desc:	From South Line	

Status:AFeet EW:230Status Desc:ActiveFEWL:E

Operator: HESS BAKKEN INVESTMENTS II, FEWL Desc: From East Line

LLC

 Well Name:
 RS-BEAN-156-91- 3229H-1
 Latitude:
 48.28578077

 TD:
 19365
 Longitude:
 -102.39764152

SPUD Date: 06-May-2009 Well Type: OG

Field Name: ROSS Well Type Desc: Oil or Gas Well

Quarter Quarter: SESE Symbol: A-OG

Section:32Symbol Desc:Township:156Date Created:Range:91Date Modified:

County: MOUNTRAIL Scribe:

County.	MOONTRAIL		Scribe.		
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
59	SSE	0.75	3,980.10	2,232.04	OGW
API No.:	33-	061-00329-00-00	Feet NS:	510	
API:	33061003290000		FNSL:	S	
Fileno:	11505		FNSL Desc:	From South Line	
Status:	DR	Υ	Feet EW:	510	
Status Desc:			FEWL:	W	

Order No: 23101200256p

Operator: BROOKS EXPLORATION, INC. FEWL Desc: From West Line

 Well Name:
 MCNALLEY 1-33
 Latitude:
 48.28507726

 TD:
 8390
 Longitude:
 -102.39459952

SPUD Date: 16-May-1985 Well Type: OG

Field Name: STANLEY Well Type Desc: Oil or Gas Well

Quarter Quarter: SWSW Symbol: DRY-OG

Section:33Symbol Desc:Township:156Date Created:Range:91Date Modified:

County: MOUNTRAIL Scribe:

Water Wells Database

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB3S0.201,052.172,223.32WATER WELLS

Site Index: 12798 Land Surface Elev: 2225

SWC Well No: Elev Type: Topographic Map

Location: 15609132BAD Date Drilled: 1952-01-01

County:MountrailTotal Depth:80Basin:Little Knife RiverBedrock Depth:53Aquifer:No Obs Well InstalledTop Screen:0Purpose:Test HoleBottom Screen:0

Casing:NoneCoord Type:CalculatedDiameter:0Longitude:-102.408881Measuring Pt Elev:0Latitude:48.295405

Land Surface Elev 2225

Navd88:

Measuring Point Elev

Navd88:

Map Key Direction Distance (mi) Distance (ft) Elevation (ft) DB

5 S 0.32 1,696.16 2,201.64 WATER WELLS

Site Index: 12800 Land Surface Elev: 2160

SWC Well No: 597 Elev Type: Topographic Map Location: 15609132BDA2 Date Drilled: 1952-01-01

County:MountrailTotal Depth:20Basin:Little Knife RiverBedrock Depth:9Aquifer:No Obs Well InstalledTop Screen:0Purpose:Test HoleBottom Screen:0

Casing: None Coord Type: Calculated
Diameter: 0 Longitude: -102.40888
Measuring Pt Elev: 0 Latitude: 48.293595

Land Surface Elev 2160 Navd88:

Measuring Point Elev 0

Navd88:

Map Key Direction Distance (mi) Distance (ft) Elevation (ft) DB

Order No: 23101200256p

5 S 0.32 1,696.16 2,201.64 WATER WELLS

Site Index: 12799 Land Surface Elev: 2200

SWC Well No: 596 Elev Type: Topographic Map

Location: 15609132BDA1 Date Drilled: 1952-01-01

70 County: Mountrail Total Depth: Little Knife River Bedrock Depth: 56 Basin: Aquifer: No Obs Well Installed 0 Top Screen: Purpose: Test Hole Bottom Screen: 0

Casing:NoneCoord Type:CalculatedDiameter:0Longitude:-102.40888Measuring Pt Elev:0Latitude:48.293595

Land Surface Elev 2200

Navd88:

Measuring Point Elev 0

Navd88:

Map Key	Direction	Distance (mi)		Distance (ft)	Elevation (ft)	DB
6	-	0.00	0	.00	2,234.34	WATER WELLS
Site Index:	1249	1		Land Surface Elev:	0	
SWC Well No:	604			Elev Type:		
Location:	1560	9128CCC		Date Drilled:	1952-01-01	
County:	Mour	ntrail		Total Depth:	350	
Basin:	Little	Knife River		Bedrock Depth:	45	
Aquifer:	No O	bs Well Installed		Top Screen:	0	
Purpose:	Test	Hole		Bottom Screen:	0	
Casing:	None)		Coord Type:	Calculated	
Diameter:	0			Longitude:	-102.395315	
Measuring Pt Elev:	0			Latitude:	48.299011	
Land Surface Elev Navd88:	0					
Measuring Point El	ev 0					

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	-	0.00	0.00	2,223.14	WATER WELLS
Site Index:	12120	n	Land Surface Elev:	2223.94	
SWC Well No:	12443		Elev Type:	Survey 0.01 ft	
Location:	15609133BBBB		Date Drilled:	1989-10-24	
County:	Mountrail		Total Depth:	50	
Basin:	Little Knife River		Bedrock Depth:	22	
Aquifer:	No Obs Well Installed		Top Screen:	0	
Purpose:	Test Hole		Bottom Screen:	0	
Casing:	None		Coord Type:	Calculated	
Diameter:	0		Longitude:	-102.395985	

Order No: 23101200256p

Navd88:

Measuring Pt Elev: 0 Latitude: 48.297649

Land Surface Elev 2223.94

Navd88:

Measuring Point Elev (

Navd88:

Map Key Direction Distance (mi) Distance (ft) Elevation (ft) DB

11 SE 0.04 212.31 2,158.31 WATER WELLS

Site Index: 12492 Land Surface Elev: 2160

SWC Well No: 566 Elev Type: Topographic Map

Location: 15609133BBC Date Drilled: 1952-01-01

County: Mountrail Total Depth: 30 Little Knife River Bedrock Depth: 22 Basin: Aquifer: No Obs Well Installed Top Screen: 0 Purpose: Test Hole Bottom Screen: 0

Casing:NoneCoord Type:CalculatedDiameter:0Longitude:-102.395305Measuring Pt Elev:0Latitude:48.295407

Land Surface Elev 2160

NW

Navd88:

Measuring Point Elev 0

Navd88:

13

Map Key Direction Distance (mi) Distance (ft) Elevation (ft) DB

1,561.40

2,286.49

WATER WELLS

Order No: 23101200256p

Site Index: 12797 Land Surface Elev: 2282

0.30

SWC Well No: Elev Type: Topographic Map

Location:15609129BBBDate Drilled:1952-01-01County:MountrailTotal Depth:350Basin:Little Knife RiverBedrock Depth:80Aquifer:No Obs Well InstalledTop Screen:0

Aquifer:No Obs Well InstalledTop Screen:0Purpose:Test HoleBottom Screen:0

Casing:NoneCoord Type:CalculatedDiameter:0Longitude:-102.417093Measuring Pt Elev:0Latitude:48.311716

Land Surface Elev 2282

Navd88:

Measuring Point Elev 0

Navd88:

Map Key Direction Distance (mi) Distance (ft) Elevation (ft) DB

15 ESE 0.10 536.05 2,183.89 WATER WELLS

Site Index: 12122 Land Surface Elev: 2175.55
SWC Well No: 12442 Elev Type: Survey 0.01 ft

Location: 15609133BBDB Date Drilled: 1989-10-24

County: Mountrail Total Depth: 80 Little Knife River Bedrock Depth: 22 Basin: No Obs Well Installed 0 Aquifer: Top Screen: Purpose: Test Hole Bottom Screen: 0

Coord Type: Casing: None Calculated Diameter: 0 Longitude: -102.393269 Measuring Pt Elev: 0 Latitude: 48.295857

Land Surface Elev 2175.55

Navd88:

Measuring Point Elev 0

Navd88:

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	SE	0.20	1,072.09	2,157.23	WATER WELLS
Site Index:	1215	6	Land Surface Elev:	-1.52	
SWC Well No:			Elev Type:	Global Position	Survey
Location:	1560	9133L	Date Drilled:		
County:	Mour	ntrail	Total Depth:	0	
Basin:	Little	Knife River	Bedrock Depth:	0	
Aquifer:	Surfa	ice Water	Top Screen:	0	
Purpose:	Surfa	ce Water Monitoring Site	Bottom Screen:	0	
Casing:			Coord Type:	GPS - Surveye	d
Diameter:	0		Longitude:	-102.396748	
Measuring Pt Elev:	2156	.33	Latitude:	48.293031	
Land Surface Elev	0				

Navd88:

Measuring Point Elev

2157.85

Navd88:

Map Key	Direction	Distance (mi)	D	Distance (ft) Elevation (ft)		DB
17	ESE	0.14	74	744.78 2,161.06		WATER WELLS
Site Index:	1249	3		Land Surface Elev:	2160	
SWC Well No:	565			Elev Type:	Topographic Map	
Location:	15609	9133BBD		Date Drilled:	1952-01-01	
County:	Moun	ntrail		Total Depth:	20	
Basin:	Little	Knife River		Bedrock Depth:	18	
Aquifer:	No O	bs Well Installed		Top Screen:	0	
Purpose:	Test	Hole		Bottom Screen:	0	
Casing:	None			Coord Type:	Calculated	
Diameter:	0			Longitude:	-102.392589	
Measuring Pt Elev	. 0			Latitude:	48.295407	
Land Surface Elev	2160					

Direction Distance (mi) Distance (ft) **Elevation (ft)** DB Map Key

Order No: 23101200256p

0

Navd88:

Navd88:

Measuring Point Elev

18 SE 0.23 1,200.72 2,157.44 WATER WELLS

Site Index: 130907 Land Surface Elev: -1.52

SWC Well No: Elev Type: Global Position Survey

Location: 15609133B Date Drilled: 2019-09-04

County:MountrailTotal Depth:0Basin:Lake SakakaweaBedrock Depth:0Aquifer:Surface WaterTop Screen:0Purpose:Surface Water Site - PRESENSBottom Screen:0

Casing: Coord Type: Digitized - Heads Up

 Diameter:
 0
 Longitude:
 -102.39613

 Measuring Pt Elev:
 2155.66
 Latitude:
 48.292678

Measuring Pt Elev: 2155.66 Latitude:

Land Surface Elev 0 Navd88:

Measuring Point Elev 2157.18

Navd88:

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB20ESE0.17889.152,161.71WATER WELLS

Site Index: 12121 Land Surface Elev: 2156.25

SWC Well No: 12452 Elev Type: Global Position Survey

Location: 15609133BBD2 Date Drilled: 1989-10-25

40 County: Mountrail Total Depth: Basin: Little Knife River Bedrock Depth: 17 Little Knife River Valley 12 Aquifer: Top Screen: **Observation Well** 17 Purpose: Bottom Screen:

Casing:PVCCoord Type:GPS - SurveyedDiameter:2Longitude:-102.39207Measuring Pt Elev:2161.34Latitude:48.295194

Land Surface Elev

Navd88:

Measuring Point Elev 2162.86

2157.77

Navd88:

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB21NNE0.562.955.402.244.99WATER WELLS

Order No: 23101200256p

Site Index: 12474 Land Surface Elev: 2248

SWC Well No: Elev Type: Topographic Map

Location: 15609120DDD Date Drilled: 1952-01-01

County:MountrailTotal Depth:70Basin:Little Knife RiverBedrock Depth:66Aquifer:No Obs Well InstalledTop Screen:0Purpose:Test HoleBottom Screen:0

Casing:NoneCoord Type:CalculatedDiameter:0Longitude:-102.398028Measuring Pt Elev:0Latitude:48.313509

Land Surface Elev

2248

Navd88:

Measuring Point Elev

0

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	ESE 0.22		1,162.42	2,186.10	WATER WELLS
Site Index: SWC Well No:	12118 1244		Land Surface Elev Type:	Elev: 2193.02 Survey 0.01 ft	
Location:	15609	133BACB	Date Drilled:	1989-10-25	
County:	Moun	trail	Total Depth:	20	
Basin:	Little	Knife River	Bedrock Deptl	h: 5	
Aquifer:	No O	os Well Installed	Top Screen:	0	
Purpose:	Test I	Hole	Bottom Screen	n: 0	
Casing:	None		Coord Type:	Calculated	
Diameter:	0		Longitude:	-102.390555	
Measuring Pt Elev:	0		Latitude:	48.295865	
Land Surface Elev Navd88:		02			
Measuring Point El Navd88:	lev 0				

24 NE 0.50 2,638.72 2,231.04 WATER WELLS Site Index: 9243 Land Surface Elev: 2229 SWC Well No: 598 Elev Type: Topographic Map Location: 15609128BAC2 Date Drilled: 1952-01-01 County: Mountrail Total Depth: 350 Basin: Little Knife River Bedrock Depth: 72 Aquifer: No Obs Well Installed Top Screen: 0 Purpose: Test Hole Bottom Screen: 0 Casing: None Coord Type: Calculated Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev 2229 Navd88: Measuring Point Elev 0 Navd88: Measuring Point Elev 0	Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
SWC Well No: 598 Elev Type: Topographic Map Location: 15609128BAC2 Date Drilled: 1952-01-01 County: Mountrail Total Depth: 350 Basin: Little Knife River Bedrock Depth: 72 Aquifer: No Obs Well Installed Top Screen: 0 Purpose: Test Hole Bottom Screen: 0 Casing: None Coord Type: Calculated Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev Navd88: Measuring Point Elev 0	24	NE	0.50	2,638.72	638.72 2,231.04	
SWC Well No: 598 Elev Type: Topographic Map Location: 15609128BAC2 Date Drilled: 1952-01-01 County: Mountrail Total Depth: 350 Basin: Little Knife River Bedrock Depth: 72 Aquifer: No Obs Well Installed Top Screen: 0 Purpose: Test Hole Bottom Screen: 0 Casing: None Coord Type: Calculated Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev Navd88: Measuring Point Elev 0						
Location:15609128BAC2Date Drilled:1952-01-01County:MountrailTotal Depth:350Basin:Little Knife RiverBedrock Depth:72Aquifer:No Obs Well InstalledTop Screen:0Purpose:Test HoleBottom Screen:0Casing:NoneCoord Type:CalculatedDiameter:14Longitude:-102.389887Measuring Pt Elev:0Latitude:48.309892Land Surface Elev Navd88: Measuring Point Elev2229	Site Index:	9243		Land Surface Elev:	2229	
County: Mountrail Total Depth: 350 Basin: Little Knife River Bedrock Depth: 72 Aquifer: No Obs Well Installed Top Screen: 0 Purpose: Test Hole Bottom Screen: 0 Casing: None Coord Type: Calculated Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev Navd88: Measuring Point Elev 0	SWC Well No:	598		Elev Type:	Topographic Map)
Basin: Little Knife River Bedrock Depth: 72 Aquifer: No Obs Well Installed Top Screen: 0 Purpose: Test Hole Bottom Screen: 0 Casing: None Coord Type: Calculated Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev Navd88: Measuring Point Elev 0	Location:	15609	9128BAC2	Date Drilled:	1952-01-01	
Aquifer: No Obs Well Installed Top Screen: 0 Purpose: Test Hole Bottom Screen: 0 Casing: None Coord Type: Calculated Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev Navd88: Measuring Point Elev 0	County:	Moun	trail	Total Depth:	350	
Purpose: Test Hole Bottom Screen: 0 Casing: None Coord Type: Calculated Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev Navd88: Measuring Point Elev 0	Basin:	Little	Knife River	Bedrock Depth:	72	
Casing: None Coord Type: Calculated Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev Navd88: Measuring Point Elev 0	Aquifer:	No O	bs Well Installed	Top Screen:	0	
Diameter: 14 Longitude: -102.389887 Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev 2229 Navd88: Measuring Point Elev 0	Purpose:	Test I	Hole	Bottom Screen:	0	
Measuring Pt Elev: 0 Latitude: 48.309892 Land Surface Elev 2229 Navd88: Measuring Point Elev 0	Casing:	None		Coord Type:	Calculated	
Land Surface Elev 2229 Navd88: Measuring Point Elev 0	Diameter:	14		Longitude:	-102.389887	
Navd88: Measuring Point Elev 0	Measuring Pt Elev:	0		Latitude:	48.309892	
		2229				
		ev 0				

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	NE	0.50	2,638.72	2,231.04	WATER WELLS
Site Index: SWC Well No: Location: County:	12796 15609 Moun	9128BAC1	Land Surface Elev: Elev Type: Date Drilled: Total Depth:	2229 Topographic Map 1953-01-01 239	

Basin:Little Knife RiverBedrock Depth:76Aquifer:Fort UnionTop Screen:121Purpose:Production WellBottom Screen:185

Casing: Steel Coord Type: Calculated
Diameter: 8 Longitude: -102.389887
Measuring Pt Elev: 2229 Latitude: 48.309892

Land Surface Elev

Navd88:

2230.52 2230.52

15609133BADB

2177.02

Measuring Point Elev Navd88:

Location:

Map Key **Direction** Distance (mi) Distance (ft) **Elevation (ft)** DB 30 **ESE** 0.33 1,720.74 2,181.97 WATER WELLS Site Index: 12119 Land Surface Elev: 2177.02 SWC Well No: 12441 Elev Type: Survey 0.01 ft

Date Drilled:

1989-10-24

Order No: 23101200256p

County:MountrailTotal Depth:40Basin:Little Knife RiverBedrock Depth:11Aquifer:No Obs Well InstalledTop Screen:0Purpose:Test HoleBottom Screen:0

Casing:NoneCoord Type:CalculatedDiameter:0Longitude:-102.387843Measuring Pt Elev:0Latitude:48.295865

Navd88:

Land Surface Elev

Measuring Point Elev 0

Navd88:

inavaoo.					
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	ENE	0.56	2,935.57	2,240.75	WATER WELLS
Site Index:	126	621	Land Surface Elev:	2240.4	
SWC Well No:			Elev Type:	DEM - 30 meter	
Location:	156	09128BDDA	Date Drilled:	1990-09-28	
County:	Mou	ıntrail	Total Depth:	260	
Basin:	Little	e Knife River	Bedrock Depth:	0	
Aquifer:	Fort	Union	Top Screen:	190	
Purpose:	Mur	icipal Well	Bottom Screen:	250	
Casing:	Plas	etic	Coord Type:	Calculated	
Diameter:	6		Longitude:	-102.3865	
Measuring Pt Elev:	0		Latitude:	48.306728	
Land Surface Elev Navd88:	224	0.4			
Measuring Point El	ev 0				

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	ENE	0.55	2,917.99	2,241.67	WATER WELLS

Site Index:	32039	Land Surface Elev:	0
SWC Well No:		Elev Type:	
Location:	15609128	Date Drilled:	
County:	Mountrail	Total Depth:	0
Basin:	Little Knife River	Bedrock Depth:	0
Aquifer:	Undefined	Top Screen:	0
Purpose:	Surface Water Monitoring Site	Bottom Screen:	0
Casing:		Coord Type:	Calculated
Diameter:	0	Longitude:	-102.385825
Measuring Pt Elev:	0	Latitude:	48.305373
Land Surface Elev Navd88:	0		
Measuring Point Elev Navd88:	0		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	ESE	0.35	1,840.43	2,193.76	WATER WELLS
Site Index:	1211	7	Land Surface E	lev: 2194.24	
SWC Well No:	1244	5	Elev Type:	Survey 0.01 ft	
Location:	15609	9133BAAA	Date Drilled:	1989-10-25	
County:	Moun	trail	Total Depth:	40	
Basin:	Little	Knife River	Bedrock Depth:	18	
Aquifer:	No O	bs Well Installed	Top Screen:	0	
Purpose:	Test	Hole	Bottom Screen:	0	
Casing:	None		Coord Type:	Calculated	
Diameter:	0		Longitude:	-102.386488	
Measuring Pt Elev	: 0		Latitude:	48.297677	
Land Surface Elev Navd88:	2194.	24			
Measuring Point E Navd88:	lev 0				

Мар Кеу	Direction	Distance (mi)	Distanc	Distance (ft) Elevat		DB
34	ESE	0.35	1,830.20	1,830.20 2,160.89		WATER WELLS
Site Index: SWC Well No: Location:			Elev	Surface Elev: Type: Drilled:	2155.7 Global Position Survey 1989-10-25	
County: Basin:	Moun Little	trail Knife River		Depth: ock Depth:	40 21	
Aquifer:		Knife River Valley		Screen:	15	
Purpose:		rvation Well		m Screen:	20	
Casing:	casing: PVC			d Type:	GPS - Sur	veyed
Diameter:	2		Long	itude:	-102.38851	15
Measuring Pt Elev	: 2158.	7	Latitu	ide:	48.29417	

Land Surface Elev

2157.22

Navd88:

Measuring Point Elev

2160.22

Navd88:

Navd88:

Мар Кеу	Direction	Distance (mi)		Distance (ft)	Elevation (ft)	DB
35	ESE	0.37	1	1,946.09 2,183.47		WATER WELLS
Site Index:	12	802		Land Surface Elev:	2180	
SWC Well No:	56	3		Elev Type:	Topographic Map)
Location:	15	609133BAD		Date Drilled:		
County:	Мс	ountrail		Total Depth:	60	
Basin:	Litt	le Knife River		Bedrock Depth:	56	
Aquifer:	No	Obs Well Installed		Top Screen:	0	
Purpose:	Te	st Hole		Bottom Screen:	0	
Casing:	No	ne		Coord Type:	Calculated	
Diameter:	0			Longitude:	-102.387167	
Measuring Pt Elev:	0			Latitude:	48.295412	
Land Surface Elev Navd88:	21	80				
Measuring Point El	lev 0					

Мар Кеу	Direction	Distance (mi)	Distance	Distance (ft) Elev		DB
37	ESE	0.38	2,028.95	2,028.95 2,158.40		WATER WELLS
Site Index: SWC Well No: Location: County:			Land S Elev Ty Date D Total D	rilled:	2155.5 Global Position S 1989-10-24 40	Survey
Basin: Aquifer: Purpose:	Little	Knife River Knife River Valley ervation Well	Top So	k Depth: reen: Screen:	22 12 17	
Casing: Diameter:	PVC 2		Coord Longitu	Туре:	GPS - Surveyed -102.387942	
Measuring Pt Elev: Land Surface Elev Navd88:	2158 2157		Latitud	e:	48.293673	
Measuring Point El Navd88:	ev 2160).42				

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	ENE	0.62	3,247.31	2,238.20	WATER WELLS
Site Index: SWC Well No: Location: County:	12662 15609 Moun	9128BADD	Land Surface Elev: Elev Type: Date Drilled: Total Depth:	2235.4 DEM - 30 meter 1990-09-24 240	

Basin:Little Knife RiverBedrock Depth:0Aquifer:Fort UnionTop Screen:168Purpose:Municipal WellBottom Screen:228

Purpose:Municipal WellBottom Screen:228Casing:PlasticCoord Type:CalculatedDiameter:6Longitude:-102.3865Measuring Pt Elev:0Latitude:48.309439

Land Surface Elev 2235.4

Navd88:

Measuring Point Elev 0

Navd88:

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB39ESE0.392,040.692,158.40WATER WELLS

Site Index: 12123 Land Surface Elev: 2155.44

SWC Well No: 12439 Elev Type: Global Position Survey

Location: 15609133BDA4 Date Drilled: 1989-10-24

County: Mountrail Total Depth: 133 Basin: Little Knife River Bedrock Depth: 22 Fort Union Aquifer: Top Screen: 122 Purpose: Observation Well Bottom Screen: 127

Casing: PVC Coord Type: GPS - Surveyed
Diameter: 2 Longitude: -102.387904
Measuring Pt Elev: 2158.19 Latitude: 48.293651

Land Surface Elev 2156.96

Navd88:

Measuring Point Elev 2159.71

Navd88:

Navuoo.					
Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ESE	0.41	2,151.17	2,176.67	WATER WELLS
Site Index:	1212	5	Land Surface Elev:	2160.42	
SWC Well No:	1245	0	Elev Type:	Survey 0.01 ft	
Location:	15609	9133BADDC	Date Drilled:	1989-10-25	
County:	Moun	ıtrail	Total Depth:	40	
Basin:	Little	Knife River	Bedrock Depth:	4	
Aquifer:	No O	bs Well Installed	Top Screen:	0	
Purpose:	Test	Hole	Bottom Screen:	0	
Casing:	None		Coord Type:	Calculated	
Diameter:	0		Longitude:	-102.386827	
Measuring Pt Elev:	0		Latitude:	48.294735	
Land Surface Elev Navd88:	2160.	42			
Measuring Point Ele	ev 0				

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	ESE	0.42	2,211.30	2,158.55	WATER WELLS

Order No: 23101200256p

Site Index: 9245 Land Surface Elev: 2161.42

SWC Well No: Elev Type:

Location: 15609133BDA3 Date Drilled: 1964-01-01

Mountrail 26 County: Total Depth: Basin: Little Knife River Bedrock Depth: 0 Little Knife River Valley 0 Aquifer: Top Screen: Purpose: Municipal Well Bottom Screen: 26

Casing:CementCoord Type:CalculatedDiameter:86Longitude:-102.387167Measuring Pt Elev:0Latitude:48.293608

Land Surface Elev 2161.42

Navd88:

Measuring Point Elev 0

Navd88:

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB41ESE0.422,211.302,158.55WATER WELLS

Site Index: 12803 Land Surface Elev: 2160

SWC Well No: 562 Elev Type: Topographic Map

Location: 15609133BDA2 Date Drilled: 1952-01-01

Mountrail Total Depth: 50 County: Basin: Little Knife River Bedrock Depth: 21 No Obs Well Installed 0 Aquifer: Top Screen: 0 Test Hole Bottom Screen: Purpose:

Casing:NoneCoord Type:CalculatedDiameter:0Longitude:-102.387167Measuring Pt Elev:0Latitude:48.293608

Land Surface Elev

Navd88:

Measuring Point Elev 0

2160

Navd88:

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB42NE0.743,886.662,243.82WATER WELLS

Order No: 23101200256p

Site Index: 12478 Land Surface Elev: 2220

SWC Well No: Elev Type: Topographic Map

Location: 15609121CCA2 Date Drilled: 1952-01-01

County:MountrailTotal Depth:60Basin:Little Knife RiverBedrock Depth:49Aquifer:No Obs Well InstalledTop Screen:0Purpose:Test HoleBottom Screen:0

Casing: None Coord Type: Calculated

Diameter: 0 Longitude: -102.392599

Measuring Pt Elev: 0 Latitude: 48.315338

Land Surface Elev

2220

Navd88:

Measuring Point Elev

0

Navd88:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	NE	0.74	3,886.66	2,243.82	WATER WELLS
Site Index: SWC Well No:	1247	7	Land Surface Elev: Elev Type:	2220 Topographic Map	
Location:	15609	9121CCA1	Date Drilled:	1952-01-01	,
County:	Moun	trail	Total Depth:	70	
Basin:	Little	Knife River	Bedrock Depth:	47	
Aquifer:	No O	bs Well Installed	Top Screen:	0	
Purpose:	Test I	Hole	Bottom Screen:	0	
Casing:	None		Coord Type:	Calculated	
Diameter:	0		Longitude:	-102.392599	
Measuring Pt Elev	: 0		Latitude:	48.315338	
Land Surface Elev Navd88:	_				
Measuring Point E Navd88:	lev 0				

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	SE	0.49	2,575.84	2,189.83	WATER WELLS
Site Index:	1280	4	Land Surface E	lev: 2170	
SWC Well No:	567		Elev Type:	Topographic Ma	ap
Location:	1560	9133CAB	Date Drilled:	1952-01-01	
County:	Mour	ntrail	Total Depth:	80	
Basin:	Little	Knife River	Bedrock Depth:	60	
Aquifer:	No O	bs Well Installed	Top Screen:	0	
Purpose:	Test	Hole	Bottom Screen:	0	
Casing:	None	;	Coord Type:	Calculated	
Diameter:	0		Longitude:	-102.389884	
Measuring Pt Elev:	0		Latitude:	48.289999	
Land Surface Elev Navd88:	2170				
Measuring Point El Navd88:	ev 0				

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	ENE	0.76	4,015.13	2,241.57	WATER WELLS
Cita Indaw	12275	-	Land Surface Elev:	2220 07	
Site Index:				2238.87	
SWC Well No:	12644	1	Elev Type:	Global Position S	Survey
Location:	15609	9128ACA	Date Drilled:	1990-10-02	
County:	Moun	trail	Total Depth:	240	

Basin:Little Knife RiverBedrock Depth:50Aquifer:Fort UnionTop Screen:216Purpose:Observation WellBottom Screen:236

Casing:PVCCoord Type:GPS - SurveyedDiameter:2Longitude:-102.382327Measuring Pt Elev:2242.89Latitude:48.307894

Land Surface Elev 2240.39

Navd88:

Measuring Point Elev 2244.41

Navd88:

Map Key Direction Distance (mi) Distance (ft) **Elevation (ft)** DB 51 **ESE** 0.54 2,853.05 2,159.48 WATER WELLS Site Index: 12116 Land Surface Elev: 2155.89 SWC Well No: 12449 Elev Type: Global Position Survey Location: 15609133ACB2 Date Drilled: 1989-10-25 County: Mountrail Total Depth: 20

Basin:Little Knife RiverBedrock Depth:8Aquifer:Little Knife River ValleyTop Screen:4Purpose:Observation Well - PRESENSBottom Screen:9Casing:PVCCoord Type:GPS - St

Casing:PVCCoord Type:GPS - SurveyedDiameter:2Longitude:-102.384651Measuring Pt Elev:2158.83Latitude:48.293066

Land Surface Elev 2157.41

Navd88:

Measuring Point Elev 2160.35

Navd88:

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB	
52	ESE	0.54	2,870.95	2,158.65	WATER WELLS	
Site Index:	121	15	Land Surface Elev:	2155.71		
SWC Well No:	12448		Elev Type:	Global Position	n Survey	
Location:	156	609133ACB1	Date Drilled:	1989-10-25	1989-10-25	
County:	Мо	untrail	Total Depth:	40		
Basin:	Litt	e Knife River	Bedrock Depth:	7		
Aquifer:	For	t Union	Top Screen:	25		
Purpose:	Obs	servation Well	Bottom Screen:	30		
Casing:	PV	C	Coord Type:	GPS - Surveye	ed	
Diameter:	2		Longitudo	102 204502		

•			
Casing:	PVC	Coord Type:	GPS - Surveyed
Diameter:	2	Longitude:	-102.384582
Measuring Pt Elev:	2158.62	Latitude:	48.293049
Land Surface Elev Navd88:	2157.23		
Measuring Point Elev	2160.14		

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB56ESE0.603,149.952,181.39WATER WELLS

Order No: 23101200256p

Site Index: 12113 Land Surface Elev: 2175.52 SWC Well No: 12438 Elev Type: Survey 0.01 ft Location: 15609133ABD2 Date Drilled: 1989-10-23

County: Mountrail Total Depth: 20 Basin: Little Knife River Bedrock Depth: 14 No Obs Well Installed Aquifer: Top Screen: 0 Purpose: Test Hole Bottom Screen:

Casing: None Coord Type: Calculated Diameter: 0 Longitude: -102.381739 0 48.295433 Measuring Pt Elev: Latitude:

Land Surface Elev 2175.52

Navd88:

Measuring Point Elev 0

Navd88:

Distance (ft) **Elevation (ft)** DB **Direction** Distance (mi) Map Key 56 **ESE** 0.60 3,149.95 2,181.39 WATER WELLS Site Index: 12112 Land Surface Elev: 2176.19 SWC Well No: 12437 Survey 0.01 ft Elev Type: 15609133ABD1 1989-10-23 Location: Date Drilled: Mountrail Total Depth: 60 County: Basin: Little Knife River Bedrock Depth: 3 No Obs Well Installed 0 Aquifer: Top Screen: 0 Purpose: Test Hole Bottom Screen:

Casing: None Coord Type: Calculated 0 -102.381739 Diameter: Longitude: Measuring Pt Elev: 0 Latitude: 48.295433

Land Surface Elev

Navd88:

Measuring Point Elev 0

2176.19

Navd88:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
60	ESE	0.65	3,416.57	2,158.23	WATER WELLS
Site Index: SWC Well No:	12801 564		Land Surface Elev: Elev Type:	2158 Topographic Map	

1952-01-01

Order No: 23101200256p

Location: Date Drilled: Mountrail Total Depth: 20 County: Little Knife River 9 Basin: Bedrock Depth: Aquifer: No Obs Well Installed Top Screen: 0 Test Hole Bottom Screen: Purpose:

Casing: None Coord Type: Calculated Diameter: 0 Longitude: -102.381741 Measuring Pt Elev: 0 Latitude: 48.293623

15609133ACA

Land Surface Elev

2158

Navd88:

Measuring Point Elev

0

Navd88:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
60	ESE	0.65	3,416.57	2,158.23	WATER WELLS
Site Index: SWC Well No:	12114 12447		Land Surface Elev: Elev Type:	2156.52 Survey 0.01 ft	
Location:	15609	9133ACA2	Date Drilled:	1989-10-25	
County:	Moun	trail	Total Depth:	40	
Basin:	Little	Knife River	Bedrock Depth:	4	
Aquifer:	No Ol	os Well Installed	Top Screen:	0	
Purpose:	Test I	Hole	Bottom Screen:	0	
Casing:	None		Coord Type:	Calculated	
Diameter:	0		Longitude:	-102.381741	
Measuring Pt Elev:	0		Latitude:	48.293623	
Land Surface Elev Navd88:	2156.	52			
Measuring Point El Navd88:	ev 0				

Мар Кеу	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
61	NNE	0.98	5,150.50	2,257.24	WATER WELLS
Site Index:	12470	3	Land Surface Elev: Elev Type:	2255 Topographic Map	
Location:	1560	9121CBA2	Date Drilled:	1947-01-01	,
County:	Moun	trail	Total Depth:	200	
Basin:	Little	Knife River	Bedrock Depth:	65	
Aquifer:	Unde	fined	Top Screen:	0	
Purpose:	Produ	uction Well	Bottom Screen:	0	
Casing:	Unkn	own	Coord Type:	Calculated	
Diameter:	8		Longitude:	-102.392599	
Measuring Pt Elev	2255		Latitude:	48.318989	
Land Surface Elev Navd88:	2256.	51			
Measuring Point E Navd88:	lev 2256.	51			

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
63	ENE	0.88	4,658.32	2,239.61	WATER WELLS
Site Index: SWC Well No: Location: County:	12490 15609 Moun	9128ABA	Land Surface Elev: Elev Type: Date Drilled: Total Depth:	2235 Topographic Map 1949-01-01 200	

Little Knife River Bedrock Depth: 60 Basin: 0 Aquifer: Unknown Top Screen: Purpose: Municipal Well Bottom Screen: 0

Casing: Unknown Coord Type: Calculated Diameter: 14 Longitude: -102.381749 Measuring Pt Elev: 2235 48.31171 Latitude:

Land Surface Elev

Navd88:

2236.52

Measuring Point Elev 2236.52 Navd88:

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
67	ESE	0.82	4,320.67	2,192.69	WATER WELLS
Site Index:	12111		Land Surface Elev:	2173.98	
SWC Well No:	12446		Elev Type:	Survey 0.01 ft	
Location:	15609133AAA2		Date Drilled:	1989-10-25	

20 County: Mountrail Total Depth: Basin: Little Knife River Bedrock Depth: 5 No Obs Well Installed Top Screen: 0 Aquifer: Purpose: Test Hole Bottom Screen:

Casing: None Coord Type: Calculated 0 Diameter: Longitude: -102.376316 Measuring Pt Elev: 0 Latitude: 48.29726 2173.98

Land Surface Elev Navd88:

Measuring Point Elev 0

Navd88:

Map Key	Direction	n Distance (mi)	ı	Distance (ft)	Elevation (ft)	DB
69	Е	0.95	4	1,997.65	2,201.57	WATER WELLS
0". 1. 1					2012	
Site Index:	12	2488		Land Surface Elev:	2210	
SWC Well No:	55	57		Elev Type:	Topographic Map	
Location:	15	6609127CCB		Date Drilled:	1952-01-01	
County:	Me	ountrail		Total Depth:	60	
Basin:	Lit	ttle Knife River		Bedrock Depth:	49	
Aquifer:	No	Obs Well Installed		Top Screen:	0	
Purpose:	Te	est Hole		Bottom Screen:	0	
Casing:	No	one		Coord Type:	Calculated	
Diameter:	0			Longitude:	-102.373613	
Measuring Pt Elev:	0			Latitude:	48.300916	
Land Surface Elev Navd88:	22	210				
Measuring Point El Navd88:	lev 0					

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
70	Е	0.94	4,967.86	2,194.12	WATER WELLS

Site Index: 12489 Land Surface Elev: 2190

SWC Well No: 558 Elev Type: Topographic Map Location: 15609127CCC Date Drilled: 1952-01-01

County:MountrailTotal Depth:40Basin:Little Knife RiverBedrock Depth:29Aquifer:No Obs Well InstalledTop Screen:0

Purpose:Test HoleBottom Screen:0Casing:NoneCoord Type:CalculatedDiameter:0Longitude:-102.373613Measuring Pt Elev:0Latitude:48.299109

Land Surface Elev 2190

Navd88:

Measuring Point Elev 0

Navd88:

Map KeyDirectionDistance (mi)Distance (ft)Elevation (ft)DB73E0.944,977.202,170.15WATER WELLS

Site Index: 12495 Land Surface Elev: 2160

SWC Well No: Elev Type: Topographic Map

Location: 15609134BBB Date Drilled: 1952-01-01

County: Mountrail Total Depth: 20 Basin: Little Knife River Bedrock Depth: 8 Aquifer: No Obs Well Installed 0 Top Screen: Test Hole 0 Purpose: Bottom Screen:

Casing: None Coord Type: Calculated

Diameter: 0 Longitude: -102.373608

Measuring Pt Elev: 0 Latitude: 48.297303

Land Surface Elev 2160 Navd88:

0

Measuring Point Elev Navd88:

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for MOUNTRAIL County: 1

- Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L
- Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L
- Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for MOUNTRAIL County

No Measures/Homes: 20 Geometric Mean: 5.1 Arithmetic Mean: 7.5 Median: 5.3 Standard Deviation: 8.5 Maximum: 38.1 % >4 pCi/L: 60 % >20 pCi/L: 10

Notes on Data Table: TABLE 1. Screening indoor

radon data from the EPA/State Residential Radon Survey of North Dakota conducted during 1987-88. Data represent 2-7

day charcoal canister

measurements from the lowest level of each home tested.

Federal Sources

Indoor Radon Data INDOOR RADON

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data

PWSV

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

RADON ZONE RADON ZONE

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS)

SDWIS

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database

SSURGO

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

<u>USGS Current Topo</u> US TOPO

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology US GEOLOGY

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System

FED USGS

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The data includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

Wells from NWIS FED USGS

The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This select NWIS Wells dataset contains specific Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern. Applicable NWIS database information is obtained through the Water Quality Data Portal (WQP). The WQP is a cooperative service sponsored by the USGS, the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC).

State Sources

Gas Plant Facilities GAS PLANTS

List of Gas Plant facilities made available by North Dakota Industrial Commission (NDIC) Oil & Gas

Appendix

Division. A disclaimer by NDIC indicates that although they try to keep this information up to date and accurate, they cannot warrant the accuracy, reliability, or timeliness of the data; portions of the information may be incorrect or out of date; NDIC shall not be held responsible for any losses caused by reliance on the accuracy, reliability, or timeliness of the information.

Oil and Gas Wells OGW

Oil and Gas Wells Data collected by North Dakota Department of Mineral Resources.

<u>Underground Injection Control Wells</u>

UIC

Order No: 23101200256p

The Underground Injection Control (UIC) Program of the North Dakota Department of Environmental Quality Groundwater Division defines an injection well as any bored, drilled or a driven shaft or a dug hole, where the depth is greater than the largest surface dimension that is used to discharge fluids underground. A drainfield is considered to be a horizontally placed injection system, and some drainfields are covered under the UIC Program.

Water Wells Database WATER WELLS

This Ground-Surface Water data is provided by the North Dakota Department of Water Resources (DWR). According to the DWR, the description used to denote a location is based upon the federal system of rectangular surveys of public land. Some of the locations, such as test holes, were generated based on the legal location and have been placed near the center of the smallest guarter of the section.

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