# Appendix C

# **EDR Environmental Database Search**



# The EDR Radius Map with GeoCheck®

Mountain Iron USX Site 5520 County Road 102 Mountain Iron, MN 55768

Inquiry Number: 621494.4s

April 19, 2001

# The Source For Environmental Risk Management Data

3530 Post Road Southport, Connecticut 06490

**Nationwide Customer Service** 

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

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A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-00. Search distances are per ASTM standard or custom distances requested by the user.

#### TARGET PROPERTY INFORMATION

#### **ADDRESS**

5520 COUNTY ROAD 102 MOUNTAIN IRON, MN 55768

#### **COORDINATES**

Latitude (North): Longitude (West): 47.523000 - 47° 31' 22.8"

Universal Tranverse Mercator: Zone 15

92.620700 - 92° 37′ 14.5″

UTM X (Meters):

528554.8

UTM Y (Meters):

5263137.0

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:

2447092-E5 VIRGINIA, MN

Source:

USGS 7.5 min quad index

#### TARGET PROPERTY SEARCH RESULTS

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

#### **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ( "reasonably ascertainable ") government records either on the target property or within the ASTM E 1527-00 search radius around the target property for the following databases:

#### FEDERAL ASTM STANDARD

NPL National Priority List

Proposed NPL Proposed National Priority List Sites

System

CERCLIS No Further Remedial Action Planned

CORRACTS...... Corrective Action Report

ERNS\_\_\_\_\_ Emergency Response Notification System

#### STATE ASTM STANDARD

#### FEDERAL ASTM SUPPLEMENTAL

CONSENT...... Superfund (CERCLA) Consent Decrees

ROD....... Records Of Decision

Delisted NPL...... National Priority List Deletions

FINDS...... Facility Index System/Facility Identification Initiative Program Summary Report

HMIRS..... Hazardous Materials Information Reporting System

MLTS..... Material Licensing Tracking System

MINES Mines Master Index File

NPL Liens Federal Superfund Liens

PADS PCB Activity Database System

TSCA...... Toxic Substances Control Act

FTTS....... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, &

Rodenticide Act)/TSCA (Toxic Substances Control Act)

#### STATE OR LOCAL ASTM SUPPLEMENTAL

AST..... Aboveground Storage Tanks

MN Spills Database
MN HWS Permit Active TSD Facilities

MN Deleted SHWS..... Premanent List of Priority Deletions

MN LCP..... Closed Landfills Priority List

BULK Bulk Facilities Database
MN AGSPILLS Department of Agriculture Spills

#### **EDR PROPRIETARY DATABASES**

Coal Gas ...... Former Manufactured Gas (Coal Gas) Sites

#### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified.

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the target property includes a tolerance of +/- 10 feet. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

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

#### STATE OR LOCAL ASTM SUPPLEMENTAL

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

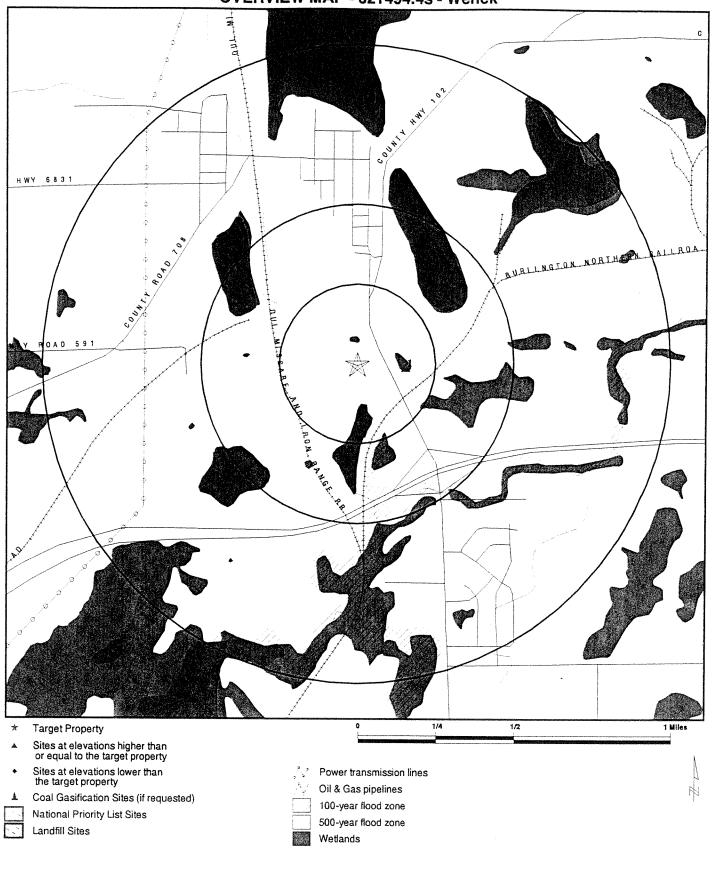
A review of the MN LS list, as provided by EDR, has revealed that there is 1 MN LS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
MOUNTAIN IRON DUMP	"1/3 MI NE OF INTER OF	1/8 - 1/4E	1	6

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
MINNTAC LDFL	CERC-NFRAP
US STEEL CORP - RAILROAD	LUST, SWF/LF, MN Spills, UST
EDWARDS OIL CHISHOLM LUCKY 7	LUST
US STEEL-MIN TAC LOCOMOTIVE BU USS - MINTAC	LUST
US STEEL MINNTAC	LUST, MN Spills LUST, MN Spills
MINNTAC	LUST, MN Spills
US STEEL/MINNTAC EAST PIT FUEL	LUST
VIDMAR IRON WORKS	UST, LUST
MINTAC CORP US STEEL	LUST, MN Spills
LOCOMOTIVE REFUELING STATION	LUST, MN Spills LUST
US STEEL	LUST, MN Spills
USX CORPORATION	AST
MOUNTAIN IRON CITY OF	RCRIS-SQG, FINDS
EAST RANGE VOC COOP CTR	RCRIS-SQG, FINDS
LYLES AUTO BODY VIDMAR IRON WORKS INC	RCRIS-SQG, FINDS
MOUNTAIN IRON	RCRIS-SQG, FINDS FINDS
MOUNTAIN IRON	FINDS
MOUNTAIN IRON WTP	FINDS
MT IRON UTILITY	FINDS
UNNAMED DUMP - BUHL U.S. STEEL MINNTAC INDUSRTIAL	MN LS
ROUND LAKE DUMP - 3	MN LS MN LS
ROUND LAKE DUMP 4	MN LS
IRON RANGE TOWING & AUTOMOTIVE	MN Enforcement
USX MINNESOTA ORE	MN Spills
USX MINNESOTA ORR USX CORPORATION	MN Spills
USA CONFORMIUN	MN Spills

# OVERVIEW MAP - 621494.4s - Wenck



TARGET PROPERTY: ADDRESS: CITY/STATE/ZIP: LAT/LONG:

Mountain Iron USX Site 5520 County Road 102 Mountain Iron MN 55768 47.5230 / 92.6207

CUSTOMER: CONTACT:

DATE:

INQUIRY #:

Wenck Brian T. Hayden 621494.4s April 19, 2001 2:34 pm

# **MAP FINDINGS SUMMARY**

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FEDERAL ASTM STANDARD	<u> </u>							
NPL Proposed NPL CERCLIS CERC-NFRAP CORRACTS RCRIS-TSD RCRIS Lg. Quan. Gen. RCRIS Sm. Quan. Gen. ERNS		1.000 1.000 0.500 0.250 1.000 0.500 0.250 0.250 TP	0 0 0 0 0 0 0 0 NR	0 0 0 0 0 0 0 0 NR	0 0 0 NR 0 0 NR NR NR	0 0 R R O R N R N R N R N R	NR NR NR NR NR NR NR	0 0 0 0 0 0
STATE ASTM STANDARD								
State Haz. Waste State Landfill LUST UST		1.000 0.500 0.500 0.250	0 0 0 0	0 0 0 0	0 0 0 NR	0 NR NR NR	NR NR NR NR	0 0 0
FEDERAL ASTM SUPPLEMENTAL								
CONSENT ROD Delisted NPL FINDS HMIRS MLTS MINES NPL Liens PADS RAATS TRIS TSCA FTTS		1.000 1.000 1.000 TP TP TP 0.250 TP TP TP TP	O O O O NR NR O R NR NR O NR NR NR O NR R NR N	O O O O R NR NR O R NR N	0 0 0 R R R R R R R R R R R R R R R R R	0 0 0 R R R R R R R R R R R R R R R R R	NR NR NR NR NR NR NR NR NR NR NR NR NR N	0 0 0 0 0 0 0 0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST MN Spills MN HWS Permit MN Deleted SHWS MN LCP MN LS MN VIC MN Enforcement BULK MN AGSPILLS		TP TP 1.000 1.000 0.500 0.500 TP TP TP	NR 0 0 0 0 0 0 NR NR NR	NR NR 0 0 1 0 NR NR NR	NR NR 0 0 0 0 0 NR NR NR	NR 0 0 NR NR NR NR NR	NR NR NR NR NR NR NR NR NR	0 0 0 0 0 1 0 0
EDR PROPRIETARY DATAB	ASES							
Coal Gas		1.000	0	0	0	0	NR	0

**DETAIL MAP - 621494.4s - Wenck** Target Property 1/4 Miles



Sites at elevations higher than or equal to the target property Sites at elevations lower than the target property

Coal Gasification Sites (if requested)

Power transmission lines
Oil & Gas pipelines
100-year flood zone
500-year flood zone
Wetlands

TARGET PROPERTY: ADDRESS: CITY/STATE/ZIP: LAT/LONG:

Mountain Iron USX Site 5520 County Road 102 Mountain Iron MN 55768 47.5230 / 92.6207 CUSTOMER: CONTACT: INQUIRY #: Wenck Brian T. Hayden 621494.4s

DATE:

621494.4s April 19, 2001 2:34 pm

# **MAP FINDINGS SUMMARY**

< 1/8

Search

Target Property Distance (Miles)

1/8 - 1/4

1/4 - 1/2

1/2 - 1

> 1

Total

Plotted

AQUIFLOW - see EDR Physical Setting Source Addendum

TP = Target Property

Database

NR = Not Requested at this Search Distance

\* Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation Site

Database(s)

EDR ID Number EPA ID Number

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1 East 1/8-1/4 MOUNTAIN IRON DUMP "1/3 MI NE OF INTER OF US169 / **MOUNTAIN IRON, MN 55768** 

MN LS S100712213 N/A

823 Higher

MN LS:

CERCLIS: No No Further Remedial Action Planned: No National Priorities List: No Delisted From PLP By MPCA: No Hazardous Waste Permit: No Solid Waste Permit: No Open Dump Inventory: Yes Voluntary Cleanup & Investigation: No HWIC: No RCRA Treatment Storage & Disposal: No METRO Dump Inventory: No No Further Action: No

Entity Type: ODI MPCA ID:

MNODI0001509 69

County Code:

EPA ID: Not reported PLP:

No

Facility Name 2: Not reported Link ID: 2593 Method: С LCP: Ν Brown: Ν 0.00000 Area: Perimeter: 0.00000 MES All: 1966 MES Id: 2593

# ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip D	Database(s)	Facility ID
BUHL	\$104732127	UNNAMED DUMP - BUHL	APPROX. 1/4 MILE NE OF THE HWY	55768 N	MNLS	
CHISHOLM	S103462003	EDWARDS OIL CHISHOLM LUCKY 7	HWY 73	25768 L	UST	
MOUNTAIN IRON	\$103909812	US STEEL-MIN TAC LOCOMOTIVE BU	HWY 135 PO BOX 417	25768 L	LUST	
MOUNTAIN IRON	S104843642	IRON RANGE TOWING & AUTOMOTIVE	5205 HIGHWAY 25	55768 N	MN Enforcement	MNR000033050
MOUNTAIN IRON	\$101280538	USX MINNESOTA ORE	PO BOX 417	55768 N	MN Spills	18558
MOUNTAIN IRON	1000625171	US STEEL CORP - RAILROAD	PO BOX 417	25768 L	LUST, SWF/LF, MN Spills, UST	10128
MOUNTAIN IRON	\$100056255	USS - MINTAC	PO BOX 417	25768 L	LUST, MN Spills	25825
MOUNTAIN IRON	1002758178	MOUNTAIN IRON	CITY HALL	u.	FINDS	
MOUNTAIN IRON	\$101280569	US STEEL MINNTAC	COLD STORAGE BUILDING	25768 L	LUST, MN Spills	135278
MOUNTAIN IRON	\$101280539	USX MINNESOTA ORR	COUNTY ROAD 102	55768 N	MN Spills	15055
MOUNTAIN IRON	S101280648	MINNTAC	COUNTY ROAD 102	25768 L	LUST, MN Spills	20162
MOUNTAIN IRON	\$103909860	US STEEL/MINNTAC EAST PIT FUEL	COUNTY RD 102	25768 L	LUST	
MOUNTAIN IRON	\$101280529	USX CORPORATION	CO HWY 102	55768 N	MN Spiils	9288
MOUNTAIN IRON	U001623162	VIDMAR IRON WORKS	8975 MAIN ST	55768 U	UST, LUST	18275
MOUNTAIN IRON	1000321922	MOUNTAIN IRON CITY OF	8878 MAIN ST	55768 R	ACRIS-SQG, FINDS	
MOUNTAIN IRON	\$103854610	U.S. STEEL MINNTAC INDUSRTIAL	4 MILES NORTH-NORTHWEST OF US	55768 N	MNLS	
MOUNTAIN IRON	A100151979	USX CORPORATION	MINNESOTA ORE OPERATIONS	55768 A	AST	55900
MOUNTAIN IRON	\$101280531	MINTAC CORP	P O BOX 417	25768 LI	LUST, MN Spills	13206
MOUNTAIN IRON	1000321859	MINNTAC LDFL	OLD HWY 169	55768 C	CERC-NFRAP	
MOUNTAIN IRON	1000393610	EAST RANGE VOC COOP CTR	N ON HWY 53 TO MT IRON EXIT W	55768 R	RCRIS-SQG, FINDS	
MOUNTAIN IRON	\$101280541	US STEEL	WEST PIT	25768 LI	LUST, MN Spills	15394
MOUNTAIN IRON	1002948718	MOUNTAIN IRON	SEC 15 T58N R18W	55768 F	FINDS	
MOUNTAIN IRON	1002948174	MOUNTAIN IRON WTP	SEC 4 T58 R18	55768 F	FINDS	
MOUNTAIN IRON	\$100699024	LOCOMOTIVE REFUELING STATION	US STEEL/MINNTAC	55768 LI	LUST	
MOUNTAIN IRON	\$101280558	US STEEL	TANK # 35/MIFA#86	55768 LI	LUST, MN Spills	109698
MT IRON	1000888636	LYLES AUTO BODY	HWY 169 N 9105	55768 R	RCRIS-SQG, FINDS	
MT IRON	1002948659	MT IRON UTILITY	MOUNTAIN AVENUE	55768 F	FINDS	
MT ITON	1000867088	VIDMAR IRON WORKS INC	8925 MAIN ST	55768 R	RCRIS-SQG, FINDS	
NICHOLS	\$102658062	ROUND LAKE DUMP - 3	1.5 MI NORTH OF HWY 18 / UNNAM	55768 M	MNLS	
NICHOLS	\$100711468	ROUND LAKE DUMP 4	1/2MI NORTHWEST OF HWY 18 / UN	55768 M	MNLS	

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

#### **FEDERAL ASTM STANDARD RECORDS**

NPL: National Priority List Source: EPA

Telephone: N/A

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 01/23/01 Date Made Active at EDR: 02/16/01

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/05/01

Elapsed ASTM days: 11

Date of Last EDR Contact: 02/05/01

Proposed NPL: Proposed National Priority List Sites

Source: EPA Telephone: N/A

> Date of Government Version: 01/23/01 Date Made Active at EDR: 02/16/01

Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 02/05/01

Elapsed ASTM days: 11

Date of Last EDR Contact: 02/05/01

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

Source: EPA

Telephone: 703-413-0223

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 12/28/00 Date Made Active at EDR: 02/28/01 Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/29/00 Elapsed ASTM days: 61

Date of Last EDR Contact: 03/26/01

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Source: EPA

Telephone: 703-413-0223

As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 12/28/00 Date Made Active at EDR: 02/28/01 Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 12/29/00

Elapsed ASTM days: 61

Date of Last EDR Contact: 03/26/01

**CORRACTS:** Corrective Action Report

Source: EPA

Telephone: 800-424-9346

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 04/20/00 Date Made Active at EDR: 08/01/00 Database Release Frequency: Semi-Annually Date of Data Arrival at EDR: 06/12/00 Elapsed ASTM days: 50 Date of Last EDR Contact: 03/14/01

RCRIS: Resource Conservation and Recovery Information System

Source: EPA/NTIS Telephone: 800-424-9346

Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery

Act (RCRA).

Date of Government Version: 06/21/00 Date Made Active at EDR: 07/31/00 Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 07/10/00

Elapsed ASTM days: 21

Date of Last EDR Contact: 01/30/01

ERNS: Emergency Response Notification System

Source: EPA/NTIS Telephone: 202-260-2342

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous

substances.

Date of Government Version: 08/08/00 Date Made Active at EDR: 09/06/00 Database Release Frequency: Quarterly Date of Data Arrival at EDR: 08/11/00

Elapsed ASTM days: 26

Date of Last EDR Contact: 02/02/01

#### FEDERAL ASTM SUPPLEMENTAL RECORDS

**BRS:** Biennial Reporting System

Source: EPA/NTIS Telephone: 800-424-9346

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG)

and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/97 Database Release Frequency: Biennially Date of Last EDR Contact: 03/19/01

Date of Next Scheduled EDR Contact: 06/18/01

CONSENT: Superfund (CERCLA) Consent Decrees

Source: EPA Regional Offices

Telephone: Varies

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: N/A
Database Release Frequency: Varies

Date of Last EDR Contact: N/A

Date of Next Scheduled EDR Contact: N/A

ROD: Records Of Decision

Source: NTIS

Telephone: 703-416-0223

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/30/99 Database Release Frequency: Annually Date of Last EDR Contact: 04/10/01

Date of Next Scheduled EDR Contact: 07/09/01

**DELISTED NPL:** National Priority List Deletions

Source: EPA Telephone: N/A

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 01/23/01 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 02/05/01
Date of Next Scheduled EDR Contact: 05/07/01

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report

Source: EPA Telephone: N/A

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/07/00 Database Release Frequency: Quarterly Date of Last EDR Contact: 04/09/01 Date of Next Scheduled EDR Contact: 07/09/01

HMIRS: Hazardous Materials Information Reporting System

Source: U.S. Department of Transportation

Telephone: 202-366-4526

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 05/31/00 Database Release Frequency: Annually Date of Last EDR Contact: 01/23/01
Date of Next Scheduled EDR Contact: 04/23/01

MLTS: Material Licensing Tracking System Source: Nuclear Regulatory Commission

Telephone: 301-415-7169

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/30/01 Database Release Frequency: Quarterly Date of Last EDR Contact: 04/09/01

Date of Next Scheduled EDR Contact: 07/09/01

MINES: Mines Master Index File

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959

Date of Government Version: 08/01/98
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 04/02/01
Date of Next Scheduled EDR Contact: 07/02/01

NPL LIENS: Federal Superfund Liens

Source: EPA

Telephone: 205-564-4267

Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91

Date of Last EDR Contact: 02/20/01

Database Release Frequency: No Update Planned

Date of Next Scheduled EDR Contact: 05/21/01

PADS: PCB Activity Database System

Source: EPA

Telephone: 202-260-3936

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/01/00 Database Release Frequency: Annually Date of Last EDR Contact: 02/12/01

Date of Next Scheduled EDR Contact: 05/14/01

RAATS: RCRA Administrative Action Tracking System

Source: EPA

Telephone: 202-564-4104

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95

Database Release Frequency: No Update Planned

Date of Last EDR Contact: 03/13/01
Date of Next Scheduled EDR Contact: 06/11/01

TRIS: Toxic Chemical Release Inventory System

Source: EPA

Telephone: 202-260-1531

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/97

Database Release Frequency: Annually

Date of Last EDR Contact: 03/26/01

Date of Next Scheduled EDR Contact: 06/25/01

TSCA: Toxic Substances Control Act

Source: EPA

Telephone: 202-260-1444

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

Date of Government Version: 12/31/98

Database Release Frequency: Every 4 Years

Date of Last EDR Contact: 03/30/01

Date of Next Scheduled EDR Contact: 06/12/01

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-564-2501

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/00 Database Release Frequency: Quarterly Date of Last EDR Contact: 03/26/01

Date of Next Scheduled EDR Contact: 06/25/01

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Source: EPA

Telephone: 202-564-2501

Date of Government Version: 08/10/00

Database Release Frequency: Quarterly

Date of Last EDR Contact: 03/26/01

Date of Next Scheduled EDR Contact: 06/25/01

#### STATE OF MINNESOTA ASTM STANDARD RECORDS

SHWS: Superfund Permanent List of Priorities Source: Minnesota Pollution Control Agency

Telephone: 651-296-6139

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 01/01/00 Date Made Active at EDR: 04/06/00 Database Release Frequency: Annually Date of Data Arrival at EDR: 03/17/00 Elapsed ASTM days: 20 Date of Last EDR Contact: 03/15/01

**SWF/LF:** Permitted Solid Waste Disposal Facilities Source: Minnesota Pollution Control Agency

Telephone: 651-296-1781

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/01/00 Date Made Active at EDR: 02/02/01 Database Release Frequency: Varies

Date of Data Arrival at EDR: 01/03/01 Elapsed ASTM days: 30 Date of Last EDR Contact: 03/05/01

LUST: Leak Sites

Source: Minnesota Pollution Control Agency

Telephone: 651-297-8563

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/10/00 Date Made Active at EDR: 11/30/00 Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 10/17/00 Elapsed ASTM days: 44 Date of Last EDR Contact: 01/16/01

UST: Underground Storage Tank Database Source: Minnesota Pollution Control Agency

Telephone: 651-297-8657

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 10/13/99 Date Made Active at EDR: 11/04/99 Database Release Frequency: Varies

Date of Data Arrival at EDR: 10/19/99 Elapsed ASTM days: 16 Date of Last EDR Contact: 01/16/01

#### STATE OF MINNESOTA ASTM SUPPLEMENTAL RECORDS

AST: Aboveground Storage Tanks

Source: Minnesota Pollution Control Agency

Telephone: 651-296-0930

Registered Aboveground Storage Tanks.

Date of Government Version: 10/13/99 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 01/16/01

Date of Next Scheduled EDR Contact: 04/16/01

SPILLS: Spills Database

Source: Minnesota Pollution Control Agency

Telephone: 651-297-8499

Date of Government Version: 12/29/00 Database Release Frequency: Quarterly

Date of Last EDR Contact: 02/06/01

Date of Next Scheduled EDR Contact: 05/07/01

MN HWS PERMIT: Active TSD Facilities
Source: Minnesota Pollution Control Agency

Telephone: 651-297-8471 Active TSD Facilities.

Date of Government Version: 01/17/01 Database Release Frequency: Annually

Date of Last EDR Contact: 04/16/01 Date of Next Scheduled EDR Contact: 07/16/01

MN Deleted SHWS: Premanent List of Priority Deletions

Source: Minnessota Pollution Control Agency

Telephone: 651-296-6139

The PLP rules specify that to delist a site, either all response actions required at a site have been completed,

or that the site no longer poses a threat to public health or welfare or the environment.

Date of Government Version: 09/01/00

Database Release Frequency: Annually

Date of Last EDR Contact: 03/15/01

Date of Next Scheduled EDR Contact: 06/11/01

LCP: Closed Landfills Priority List

Source: Minnesota Pollution Control Agency

Telephone: 651-296-6706

The Minnesota Legislature enacted a law to manage and clean up the state's closed Mixed Municipal Solid Waste Landfills. Under that law, the MPCA is required to create and periodically revise a priority list of qualified landfills, based on the relative health and environmental risks they present. The MPCA established the first such priority list in December, 1994.

Date of Government Version: 07/01/00 Database Release Frequency: Annually

Date of Last EDR Contact: 03/27/01 Date of Next Scheduled EDR Contact: 06/25/01

LS: List of Sites

Source: Minnesota Pollution Control Agency

Telephone: 651-297-2731

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

Date of Government Version: 12/01/00 Database Release Frequency: Semi-Annually Date of Last EDR Contact: 03/13/01 Date of Next Scheduled EDR Contact: 06/11/01

VIC: Voluntary Investigation and Cleanup Program Source: Minnesota Pollution Control Agency

Telephone: 651-296-8407

Voluntary Investigation and Cleanup (VIC) Program List.

Date of Government Version: 01/12/01 Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/09/01
Date of Next Scheduled EDR Contact: 07/09/01

**ENFORCEMENT:** Generators Associated with Enforcement Logs

Source: Minnesota Pollution Control Agency

Telephone: 651-297-8332

Regulatory Compliance, Hazardous Waste Enforcement Log and Hazardous Waste Permit Unit Project Identification

List.

Date of Government Version: 01/09/01 Database Release Frequency: Quarterly

Date of Last EDR Contact: 04/16/01
Date of Next Scheduled EDR Contact: 07/16/01

BULK: Bulk Facilities Database Source: Department of Agriculture Telephone: 651-297-5640

Facilities that use bulk pesticides and fertilizers

Date of Government Version: 12/01/00 Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 12/12/01

Date of Next Scheduled EDR Contact: 05/15/01

AG SPILLS: Department of Agriculture Spills

Source: Department of Agriculture Telephone: 651-297-5640

This data is a list of pesticied/fertilizer incidents reported to have occurred in Minnesota.

Date of Government Version: 01/02/01

Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 01/08/01

Date of Next Scheduled EDR Contact: 05/15/01

#### **EDR PROPRIETARY DATABASES**

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. ©Copyright 1993 Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

#### Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

#### HISTORICAL AND OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

#### **GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM**

#### TARGET PROPERTY ADDRESS

MOUNTAIN IRON USX SITE 5520 COUNTY ROAD 102 MOUNTAIN IRON, MN 55768

#### TARGET PROPERTY COORDINATES

Latitude (North):

47.522999 - 47° 31' 22.8"

Longitude (West):

92.620697 - 92° 37' 14.5"

Universal Tranverse Mercator:

Zone 15

UTM X (Meters):

528554.8

UTM Y (Meters):

5263137.0

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

#### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

#### **TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property:

2447092-E5 VIRGINIA, MN

Source: USGS 7.5 min quad index

#### GENERAL TOPOGRAPHIC GRADIENT AT TARGET PROPERTY

Target Property:

General South

Source: General Topographic Gradient has been determined from the USGS 1 Degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

#### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

#### **FEMA FLOOD ZONE**

**Target Property County** 

FEMA Q3 Flood

Data Electronic Coverage ST LOUIS, MN

YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: Additional Panels in search area:

2704240002B / CBPP 2704240001B / CBPP

#### NATIONAL WETLAND INVENTORY

NWI Quad at Target Property

**NWI Electronic** 

Coverage

**VIRGINIA** YES - refer to the Overview Map and Detail Map

#### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data\*:

Search Radius:

2.0 miles

Status:

Not found

#### **AQUIFLOW®**

Search Radius: 2.000 Miles.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID

LOCATION

**GENERAL DIRECTION** 

Not Reported

FROM TP GROUNDWATER FLOW

#### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

#### GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **GEOLOGIC AGE IDENTIFICATION**

#### **ROCK STRATIGRAPHIC UNIT**

Geologic Code:

X

Category: Stratified Sequence

Era: System: Precambrian Precambrian

Series:

X metasedimentary rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:

**PITS** 

Soil Surface Texture:

unweathered bedrock

Hydrologic Group:

Class A - High infiltration rates. Soils are deep, well drained to

excessively drained sands and gravels.

Soil Drainage Class:

Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min:

> 0 inches

Depth to Bedrock Max:

> 4 inches

			Soil Layer	Information			
	Воц	ındary		Classi	fication		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	60 inches	unweathered bedrock	Not reported	Not reported	Max: 20.00 Min: 0.01	Max: 0.00 Min: 0.00

#### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: gravelly - fine sandy loam

gravelly - sandy loam

Surficial Soil Types:

gravelly - fine sandy loam

gravelly - sandy loam

Shallow Soil Types:

No Other Soil Types

Deeper Soil Types:

gravelly - sandy loam

#### ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

#### WELL SEARCH DISTANCE INFORMATION

DATABASE

SEARCH DISTANCE (miles)

Federal USGS

1.000

Federal FRDS PWS

Nearest PWS within 1 mile

State Database

1.000

#### FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	473117092370701	1/8 - 1/4 Mile SE
B2	473116092371801	1/8 - 1/4 Mile SSW
C8	473117092365701	1/8 - 1/4 Mile ESE
E19	473059092365401	1/2 - 1 Mile SSE
27	473057092375001	1/2 - 1 Mile SW
G28	473159092371901	1/2 - 1 Mile North
130	473058092363002	1/2 - 1 Mile SE
131	473058092363001	1/2 - 1 Mile SE
33	473108092361801	1/2 - 1 Mile ESE
J34	473203092372701	1/2 - 1 Mile NNW
36	473110092382001	1/2 - 1 Mile WSW
L41	473159092380802	1/2 - 1 Mile NW
L42	473159092380801	1/2 - 1 Mile NW
43	473211092374201	1/2 - 1 Mile NNW
K45	473128092383002	1/2 - 1 Mile West

#### FEDERAL FROS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID
G24	MN1690035

LOCATION FROM TP

1/2 - 1 Mile North

Note: PWS System location is not always the same as well location.

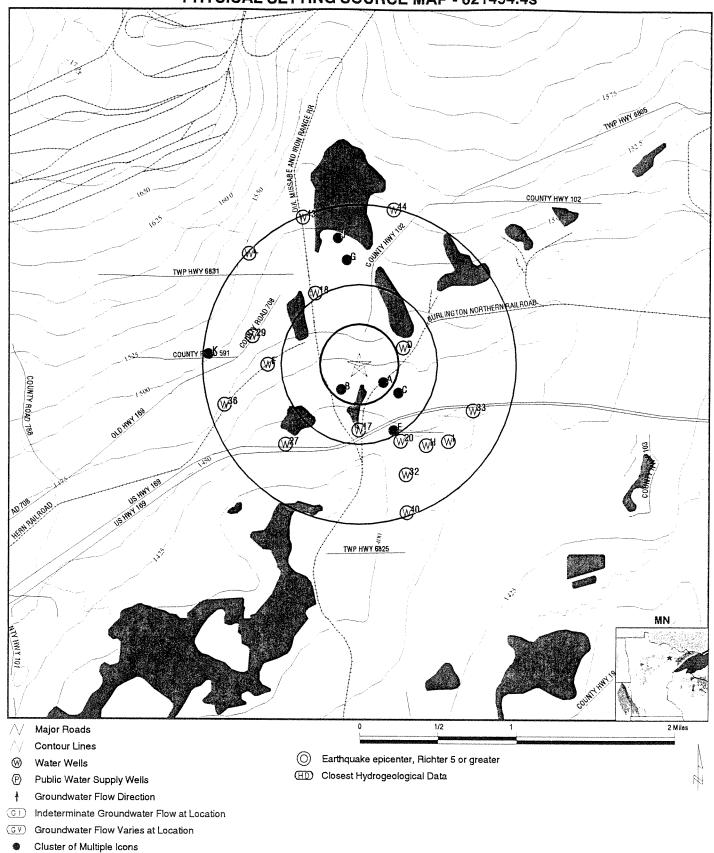
#### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	3069181614	1/8 - 1/4 Mile ESE
A4	3069181613	1/8 - 1/4 Mile ESE
A5	2023915469	1/8 - 1/4 Mile SE
A6	2023915369	1/8 - 1/4 Mile ESE
A7	2022916669	1/8 - 1/4 Mile SE
B9	2023915569	1/8 - 1/4 Mile SW
D10	2015052469	1/4 - 1/2 Mile ENE
D11	2015052669	1/4 - 1/2 Mile ENE
C12	2023915869	1/4 - 1/2 Mile SE
D13	3069174546	1/4 - 1/2 Mile ENE
D14	3069181612	1/4 - 1/2 Mile ENE

#### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C15	2023915669	1/4 - 1/2 Mile ESE
E16	2023915969	1/4 - 1/2 Mile SSE
17	2023915769	1/4 - 1/2 Mile South
18	3069168762	1/2 - 1 Mile NNW
20	2023809069	1/2 - 1 Mile SSE
F21	2023808369	1/2 - 1 Mile West
F22	2023808469	1/2 - 1 Mile West
G23	2022915269	1/2 - 1 Mile North
H25	2023965069	1/2 - 1 Mile SE
H26	2023965169	1/2 - 1 Mile SE
29	2023930169	1/2 - 1 Mile WNW
32	2023965269	1/2 - 1 Mile SSE
J35	2023915269	1/2 - 1 Mile North
K37	2023930369	1/2 - 1 Mile West
K38	2023929969	1/2 - 1 Mile West
K39	2023930469	1/2 - 1 Mile West
40	3069155419	1/2 - 1 Mile SSE
44	3069233047	1/2 - 1 Mile NNE

# PHYSICAL SETTING SOURCE MAP - 621494.4s



TARGET PROPERTY: ADDRESS: CITY/STATE/ZIP: LAT/LONG: Mountain Iron USX Site 5520 County Road 102 Mountain Iron MN 55768 47.5230 / 92.6207

CUSTOMER: CONTACT: INQUIRY #: DATE: Wenck Brian T. Hayden 621494.4s April 19, 2001 2:35 pm

Map ID Direction Distance Elevation

Database

EDR ID Number

**A**1

1/8 - 1/4 Mile

Higher

**FED USGS** 

473117092370701

**BASIC WELL DATA** 

Site Type:

Single well, other than collector or Ranney type 1957

County:

Year Constructed: Altitude:

1400.00 ft.

State:

St. Louis

Well Depth:

60.00 ft.

Topographic Setting:

Minnesota Not Reported

Depth to Water Table:

Not Reported

Prim. Use of Site:

Withdrawal of water

Date Measured:

Not Reported

Prim. Use of Water:

Public supply

1/8 - 1/4 Mile

SSW

**FED USGS** 

473116092371801

**BASIC WELL DATA** 

Single well, other than collector or Ranney type

Site Type: Year Constructed:

Not Reported

County:

St. Louis

Altitude: Well Depth: 1400.00 ft.

State:

Minnesota Not Reported

Depth to Water Table: Date Measured:

54.00 ft. Not Reported

Topographic Setting: Prim. Use of Site:

Not Reported

**ESE** 

Not Reported

Prim. Use of Water:

Not Reported

1/8 - 1/4 Mile Higher

MN WELLS 3069181614

ST. LOUIS

Not Reported

Not Reported

08/18/1981

08/18/1991

Not Reported

Not Reported

Not Reported

14

#### **Principal Well Information:**

Unique Well #:

Status:

181614

Township: Range: Subsection:

Location Method

7.5 Minute Quadrangle:

Depth Drilled (in Ft.):

58

18

CA

Not Reported

Not Reported

14

Active

Geographic Coordinates Method:

Well Name: CITY OF MT. IRON

Local Identifier:

Not Reported

Data Source/Driller's License #: Casing Diam (in):

Permit #: First Bedrock: Open Interval-Top:

DNR Application #:

Not Reported Not Reported

Not Reported Not Reported Not Reported

Not Reported

Well Sealed ?: Aquifer:

Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?:

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

County: Section

Elevation (in Ft.): Locator: Depth Completed (in Ft.):

Date drilled: Date of Last Update: Not Reported

Owner's Name: Local Identifier Type: Not Reported

Depth Cased (in Ft.):

Not Reported

Not Reported

Not Reported

Not Reported

Permit Type: Wellhead Protection Area: Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Not Reported Not Reported Yes

Not Reported

Use:

Test Well

Elevation Method:

Not Reported

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System:

Not Reported Not Reported Not Reported

Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Not Reported Not Reported

#### Well Address Information:

Well Address:

Not Reported

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported

Detection Limit Flag: Not Reported Coliform Analysis Source: Bacteria Analysis Technique: Nitrate Detection Limit Flag: Nitrate Analysis Source: Nit. Analysis Technique:

Not Reported Not Reported Not Reported Not Reported Not Reported 08/18/1981

Static Water Lev. (in Ft.):

69183

Date Static Level measured:

Static Water Level Data Source/Driller's License #:

CITY OF MID. HOLE

A4 ESE 1/8 - 1/4 Mile Higher

Well Name:

MN WELLS 3069181613

#### Principal Well Information:

Unique Well #: 181613 Township: 58 Range: 18 Subsection: CA Location Method

Not Reported 7.5 Minute Quadrangle: Not Reported Depth Drilled (in Ft.): 35

Status: Active Geographic Coordinates Method:

Local Identifier: Not Reported Data Source/Driller's License #:

Casing Diam (in): Not Reported Permit #: Not Reported First Bedrock: Not Reported Open Interval-Top: Not Reported DNR Application #: Not Reported Well Sealed ?: Not Reported Aquifer: Not Reported

Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?:

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

County: ST. LOUIS Section 10 Elevation (in Ft.): Not Reported

Locator Not Reported Depth Completed (in Ft.): 35 08/12/1981

Date drilled: Date of Last Update: 08/18/1991 Not Reported Not Reported

Owner's Name: Local Identifier Type: Not Reported Not Reported

Depth Cased (in Ft.): Not Reported Permit Type: Not Reported Wellhead Protection Area: Not Reported Open Interval-Bottom Unit: Not Reported Well Grouted ?: Not Reported

Not Reported Not Reported Not Reported Not Reported

Date Well Abandoned:

Not Reported

Use: Not Reported Elevation Method: Not Reported

Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Not Reported Indicator of the availability of cuttings, core or downhole geophysical data for this well: Not Reported Indicator of the existence of a digitized UTM location for this well: Not Reported

#### Well Address Information:

Well Address: Not Reported

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Detection Limit Flag: Not Reported Coliform Sampling Date: Not Reported Coliform Analysis Source: Not Reported Colif. Analys. Reliability: Not Reported Bacteria Analysis Technique: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Detection Limit Flag: Not Reported Nitrate Sampling Date: Not Reported Nitrate Analysis Source: Not Reported Nit. Analys. Reliability: Not Reported Nit. Analysis Technique: Not Reported Static Water Lev. (in Ft.): 14 Date Static Level measured: 08/12/1981 69183

Static Water Level Data Source/Driller's License #:

MN WELLS 2023915469 1/8 - 1/4 Mile Higher

#### **Principal Well Information:**

Unique Well #: 239154 Township: 58 County: ST. LOUIS Range: 18 Section 10 Subsection: CACC Elevation (in Ft.): 1424 Location Method Not Reported Locator: Not Reported 7.5 Minute Quadrangle: 320D Depth Completed (in Ft.): 67 Depth Drilled (in Ft.): 67 Date drilled: 07/25/1956 Status: Active Date of Last Update: 08/18/1991 Geographic Coordinates Method: Not Reported Well Name: U.S. GEO. SURVEY Owner's Name: Not Reported Local Identifier: Not Reported Local Identifier Type: Not Reported Data Source/Driller's License #: Not Reported

Casing Diam (in): Not Reported Depth Cased (in Ft.): Not Reported Permit #: Not Reported Permit Type: Not Reported First Bedrock: Not Reported Wellhead Protection Area: Not Reported Open Interval-Top: Not Reported Open Interval-Bottom Unit: Not Reported DNR Application #: Not Reported Well Grouted ?: Not Reported Well Sealed ?: Not Reported Date Well Abandoned: Not Reported

Aquifer: Not Reported Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?: Not Reported

Potential Pollution Source Type: Not Reported Potential Pollution Source Distance (in Ft.): Not Reported Potential Pollution Source Direction: Not Reported

County:

Section

Locator:

Date drilled:

Not Reported

Not Reported

Permit Type:

Well Grouted ?:

Not Reported

Not Reported

Not Reported

Not Reported

Owner's Name:

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

Local Identifier Type:

Depth Cased (in Ft.):

Wellhead Protection Area:

Open Interval-Bottom Unit:

Date Well Abandoned:

Use:

Test Well

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System:

Not Reported Not Reported Not Reported

Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Not Reported

Indicator of the existence of a digitized UTM location for this well:

Not Reported

#### Well Address Information:

Well Address:

Not Reported

1/8 - 1/4 Mile Higher

MN WELLS

ST. LOUIS

Not Reported

06/04/1956

08/18/1991

Not Reported

1425

70

56

2023915369

Principal Well Information:

Unique Well #:

Location Method

Township:

Subsection:

Range:

Status:

239153

58

18

CACA

Not Reported 7.5 Minute Quadrangle: 320D

Depth Drilled (in Ft.): 70 Active

Geographic Coordinates Method: Well Name: OLIVER IRON CO. Local Identifier: Not Reported

Data Source/Driller's License #: 12

Casing Diam (in): Permit #:

Not Reported First Bedrock: **PEVR** Open Interval-Top: QUUU DNR Application #: Not Reported Not Reported

Well Sealed ?: Aquifer: Depth to Bedrock (Ft.): 70

Not Reported Any other Unused, Abandoned Well on Property ?:

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.):

Potential Pollution Source Direction: Use: Test Well

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Not Reported Not Reported Not Reported Not Reported

Not Reported

#### Well Address Information:

Well Address:

Not Reported

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Detection Limit Flag: Not Reported Coliform Sampling Date: Not Reported Coliform Analysis Source: Not Reported Colif. Analys. Reliability: Bacteria Analysis Technique: Not Reported Not Reported Nitrate Count (mg/l): Not Reported Not Reported Nitrate Detection Limit Flag: Nitrate Sampling Date: Nitrate Analysis Source: Not Reported Not Reported Nit. Analys. Reliability: Not Reported Nit. Analysis Technique: Not Reported Static Water Lev. (in Ft.): 11 Date Static Level measured: 06/04/1956

Static Water Level Data Source/Driller's License #: Not Reported

1/8 - 1/4 Mile Higher

#### **Principal Well Information:**

Unique Well #: 229166 Township: 58 County: ST. LOUIS Range: 18 Section 10 Subsection: CACC Elevation (in Ft.): 1440 Location Method Not Reported Locator: Not Reported

Depth Completed (in Ft.): 7.5 Minute Quadrangle: 320D 54 Depth Drilled (in Ft.): 54 Date drilled: 1957

Status: Active Date of Last Update: 08/18/1991

Geographic Coordinates Method: Not Reported Well Name: IRON MT., VILLAGE OF Owner's Name: Not Reported Local Identifier Type: Local Identifier: Not Reported Not Reported

Data Source/Driller's License #: Not Reported Casing Diam (in): 20 Depth Cased (in Ft.): 39

Permit #: Not Reported Permit Type: Not Reported First Bedrock: Not Reported Wellhead Protection Area: Not Reported Open Interval-Top: Not Reported Open Interval-Bottom Unit: Not Reported DNR Application #: Not Reported Well Grouted ?: Not Reported

Well Sealed ?: Not Reported Date Well Abandoned: Not Reported

Aquifer: Pleistocene, clay + sand + silt - pebble free Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Not Reported Potential Pollution Source Type: Not Reported Potential Pollution Source Distance (in Ft.): Not Reported

Potential Pollution Source Direction: Not Reported Use: Domestic

7.5-minute Topographic Map (+ or - 5 Feet) Elevation Method:

Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Not Reported Indicator of the availability of cuttings, core or downhole geophysical data for this well: Not Reported Not Reported

Indicator of the existence of a digitized UTM location for this well:

#### Well Address Information:

Well Address: Not Reported MN WELLS

2022916669

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Not Reported Colif. Analys. Reliability: Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported

Static Water Lev. (in Ft.): 30

Static Water Level Data Source/Driller's License #:

Detection Limit Flag: Coliform Analysis Source: Bacteria Analysis Technique:

Nitrate Detection Limit Flag: Nitrate Analysis Source: Nit. Analysis Technique:

Date Static Level measured:

Not Reported

Not Reported Not Reported Not Reported

**FED USGS** 

Not Reported

Not Reported

Not Reported

Not Reported

473117092365701

2023915569

C8 ESE 1/8 - 1/4 Mile Higher

#### **BASIC WELL DATA**

Site Type:

Year Constructed:

Altitude: Well Depth:

Depth to Water Table: Date Measured:

Single well, other than collector or Ranney type Not Reported

1450.00 ft. 115.00 ft.

Not Reported Not Reported

County: State:

> Topographic Setting: Prim. Use of Site: Prim. Use of Water:

St. Louis Minnesota Not Reported

Not Reported Not Reported

sw 1/8 - 1/4 Mile Lower

**Principal Well Information:** 

Unique Well #:

Township: Range:

Subsection: **DDAA** Location Method Not Reported 7.5 Minute Quadrangle: 320D

Depth Drilled (in Ft.): Status:

Geographic Coordinates Method: OLIVER IRON CO. Well Name:

Local Identifier: Data Source/Driller's License #:

Not Reported

Not Reported

239155

58

18

57

Active

Casing Diam (in):

Not Reported Permit #: Not Reported First Bedrock: Not Reported Open Interval-Top: Not Reported DNR Application #: Not Reported Well Sealed ?: Not Reported Aquifer: Not Reported

Depth to Bedrock (Ft.):

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type:

Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

MN WELLS

County: Section

Elevation (in Ft.):

Locator: Depth Completed (in Ft.): Date drilled:

Date of Last Update: Not Reported

Owner's Name: Local Identifier Type: Not Reported

Depth Cased (in Ft.): Permit Type:

Wellhead Protection Area: Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported Not Reported Not Reported

ST. LOUIS

Not Reported

Not Reported

08/18/1991

9

57

1423

Not Reported Not Reported Not Reported Not Reported Not Reported

Use:

Not Reported

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Not Reported Not Reported Not Reported

Indicator of the existence of a digitized UTM location for this well:

Not Reported Not Reported

#### Well Address Information:

Well Address:

Not Reported

1/4 - 1/2 Mile Higher

MN WELLS

2015052469

#### Principal Well Information:

Unique Well #:

150524

Township: Range: Subsection:

58 18

**BDDA** Not Reported Section Elevation (in Ft.):

County:

ST. LOUIS 10 1455

Location Method 7.5 Minute Quadrangle: 320D Locator: Depth Completed (in Ft.): Not Reported

Depth Drilled (in Ft.): 395

Date drilled: Date of Last Update: 395 10/19/1981 08/18/1991

Status: Active Geographic Coordinates Method:

Well Name: MT. IRON, CITY OF Local Identifier: Not Reported

Not Reported Owner's Name: Local Identifier Type:

Not Reported Not Reported

Data Source/Driller's License #: Casing Diam (in):

12

Not Reported Depth Cased (in Ft.):

Permit #: First Bedrock:

Not Reported **PEBI** 

Permit Type: Wellhead Protection Area: Not Reported Not Reported

Open Interval-Top: DNR Application #: Not Reported Not Reported Open Interval-Bottom Unit: Well Grouted ?:

Not Reported Yes

Well Sealed ?:

Not Reported

Date Well Abandoned:

Not Reported

Aquifer:

BIWABIK IRON-FORMATION

Depth to Bedrock (Ft.): 160

Any other Unused, Abandoned Well on Property ?:

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Not Reported Not Reported 1000 Not Reported

Use:

Municipal

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Not Reported Not Reported Not Reported Not Reported

Not Reported

#### Well Address Information:

Well Address:

Not Reported

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Detection Limit Flag: Not Reported Coliform Sampling Date: Not Reported Coliform Analysis Source: Not Reported Colif. Analys. Reliability: Not Reported Bacteria Analysis Technique: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Detection Limit Flag: Not Reported Nitrate Sampling Date: Not Reported Not Reported Nitrate Analysis Source: Nit. Analys. Reliability: Not Reported Nit. Analysis Technique: Not Reported Static Water Lev. (in Ft.): Date Static Level measured: Not Reported

Static Water Level Data Source/Driller's License #: 48038

ENE 1/4 - 1/2 Mile Higher

MN WELLS 2015052669

#### **Principal Well Information:**

Unique Well #: 150526 Township: 58 County: ST. LOUIS Range: 18 Section 10 Subsection: **BDDA** Elevation (in Ft.): 1455 Location Method Not Reported Not Reported Locator:

7.5 Minute Quadrangle: 320D Depth Completed (in Ft.): 425
Depth Drilled (in Ft.): 425 Date drilled: 10/03/1981
Status: Active Date of Last Update: 08/18/1991

Geographic Coordinates Method:

Not Reported

Well Name: MT. IRON, CITY OF Owner's Name: Not Reported Local Identifier: Not Reported Local Identifier Type: Not Reported Data Source/Driller's License #: Not Reported

Data Source/Driller's License #: Not Reported
Casing Diam (in): 12 Depth Cased (in Ft.): 160

Permit #: Not Reported Permit Type: Not Reported First Bedrock: PEBI Wellhead Protection Area: Not Reported Open Interval-Top: Not Reported Open Interval-Bottom Unit: Not Reported

DNR Application #: Not Reported Well Grouted ?: Yes
Well Sealed ?: Not Reported Date Well Abandoned: Not Reported

Aquifer: BIWABIK IRON-FORMATION

Depth to Bedrock (Ft.): 160
Any other Unused, Abandoned Well on Property?: Not Reported

Potential Pollution Source Type:

Potential Pollution Source Distance (in Ft.):

Potential Pollution Source Direction:

Not Reported

Not Reported

Use: Municipal

Elevation Method: 7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base:

Indicator that an entry for this well exists in the State Water Use Data System:

Data exist for this well in the PCA Integrated Ground-Water Information System:

Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Not Reported Not Re

#### Well Address Information:

Well Address: Not Reported

County:

Section

Locator:

Date drilled:

Not Reported

Not Reported

Permit Type:

Well Grouted ?:

Not Reported

Not Reported

Not Reported

Not Reported

Owner's Name:

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

Local Identifier Type:

Depth Cased (in Ft.):

Wellhead Protection Area:

Open Interval-Bottom Unit:

Date Well Abandoned:

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Detection Limit Flag: Coliform Sampling Date: Not Reported Coliform Analysis Source: Colif. Analys. Reliability: Not Reported Bacteria Analysis Technique: Nitrate Count (mg/l): Not Reported Nitrate Detection Limit Flag: Nitrate Sampling Date: Not Reported Nitrate Analysis Source: Nit. Analys. Reliability: Not Reported

Nit. Analysis Technique: Static Water Lev. (in Ft.): 46 Date Static Level measured:

Static Water Level Data Source/Driller's License #: 48038

C12 SE 1/4 - 1/2 Mile

#### Principal Well Information:

Higher

Unique Well #: 239158 Township: 58 Range: 18 Subsection: CDAB

Location Method Not Reported 7.5 Minute Quadrangle: 320D Depth Drilled (in Ft.): 120

Status: Active Geographic Coordinates Method: Well Name: OLIVER IRON CO.

Local Identifier: Not Reported Data Source/Driller's License #: Casing Diam (in): Not Reported Not Reported Permit #: First Bedrock: Not Reported Open Interval-Top: Not Reported

DNR Application #: Not Reported Well Sealed ?: Not Reported Aquifer: Not Reported Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction: Use: Test Well

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Not Reported

Not Reported Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

2023915869

MN WELLS

ST. LOUIS

Not Reported

06/14/1956

08/18/1991

Not Reported

10

1455

120

#### Well Address Information:

Well Address:

Not Reported

ENE 1/4 - 1/2 Mile Higher

MN WELLS

3069174546

County:

Section

Locator:

69183

Date drilled:

Not Reported

Permit Type:

Well Grouted ?:

Not Reported

Not Reported

Not Reported

Not Reported

Owner's Name:

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

Local Identifier Type:

Depth Cased (in Ft.):

Wellhead Protection Area:

Open Interval-Bottom Unit:

Date Well Abandoned:

### Principal Well Information:

Unique Well #: 174546 Township: 58 Range: 18

Subsection: Not Reported Location Method Not Reported 7.5 Minute Quadrangle: Not Reported Depth Drilled (in Ft.): 325

Status: Not Reported

Geographic Coordinates Method: Well Name: MOUNTAIN IRON

Local Identifier: Not Reported Data Source/Driller's License #:

Casing Diam (in):

Permit #: Not Reported First Bedrock: Not Reported Open Interval-Top: Not Reported DNR Application #: Not Reported Well Sealed ?: Not Reported Aquifer: Not Reported

Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?:

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Use: Test Well Elevation Method: Not Reported

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Indicator of the existence of a digitized UTM location for this well:

Well Address Information:

Well Address:

Not Reported

### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported Static Water Lev. (in Ft.):

Static Water Level Data Source/Driller's License #:

Detection Limit Flag: Coliform Analysis Source: Bacteria Analysis Technique: Nitrate Detection Limit Flag: Nitrate Analysis Source: Nit. Analysis Technique: Date Static Level measured:

69183

MN WELLS

ST. LOUIS

Not Reported

Not Reported

01/20/1981

08/25/1992

Not Reported

01/20/1981

10

325

107

3069181612

1/4 - 1/2 Mile Higher

County:

Section

Locator:

69183

Date drilled:

Not Reported

Permit Type:

Well Grouted ?:

Not Reported

Not Reported

Not Reported

Not Reported

Owner's Name:

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

Local Identifier Type:

Depth Cased (in Ft.):

Date Well Abandoned:

Wellhead Protection Area:

Open Interval-Bottom Unit:

#### **Principal Well Information:**

Unique Well #: 181612 Township: 58 Range: 18

Subsection: Not Reported Location Method Not Reported

7.5 Minute Quadrangle: Not Reported Depth Drilled (in Ft.): 40

Status: Not Reported Geographic Coordinates Method:

Well Name: MOUNTAIN IRON

Local Identifier: Not Reported Data Source/Driller's License #:

Casing Diam (in):

Permit #: Not Reported First Bedrock: Not Reported Open Interval-Top: Not Reported **DNR** Application #: Not Reported Well Sealed ?: Not Reported Aquifer:

Not Reported Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Use: Test Well Elevation Method: Not Reported

Well Address Information: Well Address:

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Indicator of the existence of a digitized UTM location for this well:

Not Reported

## Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported Static Water Lev. (in Ft.): 22.5

Static Water Level Data Source/Driller's License #:

Coliform Analysis Source: Bacteria Analysis Technique: Nitrate Detection Limit Flag: Nitrate Analysis Source: Nit. Analysis Technique: Date Static Level measured:

Detection Limit Flag:

69183

MN WELLS

ST. LOUIS

Not Reported

Not Reported

08/17/1981

08/25/1992

Not Reported

08/17/1981

40

2023915669

1/4 - 1/2 Mile Higher

County:

Section

Locator:

Date drilled:

Not Reported

Not Reported

Permit Type:

Well Grouted ?:

Not Reported

Not Reported

Not Reported

Not Reported

Owner's Name:

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

Local Identifier Type:

Depth Cased (in Ft.):

Wellhead Protection Area:

Open Interval-Bottom Unit:

Date Well Abandoned:

### **Principal Well Information:**

Unique Well #: 239156 Township: 58 Range: 18

Subsection: CDAA Location Method Not Reported

7.5 Minute Quadrangle: 320D Depth Drilled (in Ft.): 115

Status: Active Geographic Coordinates Method: Well Name: OLIVER IRON CO.

Local Identifier: Not Reported Data Source/Driller's License #:

Casing Diam (in): Not Reported Permit #:

Not Reported First Bedrock: Not Reported Open Interval-Top: Not Reported DNR Application #: Not Reported Well Sealed ?: Not Reported Not Reported Aquifer:

Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?:

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Use: Not Reported Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet) Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Indicator of the existence of a digitized UTM location for this well:

Well Address Information:

Well Address:

E16 SSE Not Reported

239159

58

1/4 - 1/2 Mile Lower

**Principal Well Information:** 

Unique Well #: Township: Range:

18 CDCD Subsection: Location Method Not Reported 7.5 Minute Quadrangle: 320D

Depth Drilled (in Ft.): 70 Status: Active Geographic Coordinates Method:

Well Name: Local Identifier:

U.S. GEO. SURVEY Not Reported

Data Source/Driller's License #:

County: Section Elevation (in Ft.):

Locator:

Depth Completed (in Ft.): Date drilled:

Date of Last Update: Not Reported

Owner's Name: Local Identifier Type:

Not Reported

ST. LOUIS

10 1450 Not Reported

115 Not Reported

08/18/1991

Not Reported Not Reported

Not Reported Not Reported

Not Reported Not Reported Not Reported Not Reported

Not Reported Not Reported

MN WELLS

ST. LOUIS

Not Reported

07/25/1956

08/18/1991

Not Reported

Not Reported

10

70

1420

Not Reported Not Reported Not Reported

2023915969

TC621494.4s Page A-19

Casing Diam (in): Not Reported Depth Cased (in Ft.): Not Reported Permit #: Permit Type: Not Reported Not Reported First Bedrock: Not Reported Wellhead Protection Area: Not Reported Open Interval-Top: Not Reported Open Interval-Bottom Unit: Not Reported DNR Application #: Not Reported Well Grouted ?: Not Reported Well Sealed ?: Not Reported Date Well Abandoned: Not Reported Aquifer: Not Reported

Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?:

Not Reported Potential Pollution Source Type: Not Reported Potential Pollution Source Distance (in Ft.): Not Reported Potential Pollution Source Direction: Not Reported

Use: Test Well Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet) Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Not Reported Indicator of the availability of cuttings, core or downhole geophysical data for this well: Not Reported Indicator of the existence of a digitized UTM location for this well: Not Reported

### Well Address Information:

Well Address: Not Reported

South 1/4 - 1/2 Mile

Aquifer:

Lower

### **Principal Well Information:**

Unique Well #: 239157 Township: 58 County: ST. LOUIS Range: 18 Section 10 Subsection: CCDC Elevation (in Ft.): 1400 Location Method Not Reported Locator: Not Reported 7.5 Minute Quadrangle: 320D Depth Completed (in Ft.): 58 Depth Drilled (in Ft.): 58 Date drilled: 07/30/1957 Status: Active Date of Last Update: 08/18/1991 Geographic Coordinates Method:

Not Reported Well Name: U.S. GEO. SURVEY Owner's Name: Not Reported Local Identifier: Not Reported

Local Identifier Type: Not Reported Data Source/Driller's License #: Not Reported Casing Diam (in): Not Reported Depth Cased (in Ft.): Not Reported Permit #: Not Reported Permit Type: Not Reported First Bedrock: Not Reported Wellhead Protection Area: Not Reported Open Interval-Top: Not Reported Open Interval-Bottom Unit: Not Reported DNR Application #: Not Reported Well Grouted ?: Not Reported Well Sealed ?: Not Reported Date Well Abandoned: Not Reported

Not Reported Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?:

Not Reported Potential Pollution Source Type: Not Reported Potential Pollution Source Distance (in Ft.): Not Reported Potential Pollution Source Direction: Not Reported MN WELLS

County:

Section

Locator:

Date drilled:

Not Reported

Not Reported

Permit Type:

Well Grouted ?:

Not Reported

Not Reported

100

Owner's Name:

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

Local Identifier Type:

Depth Cased (in Ft.):

Wellhead Protection Area:

Open Interval-Bottom Unit:

Date Well Abandoned:

Use:

Test Well

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Not Reported Not Reported Not Reported

#### Well Address Information:

Well Address:

Not Reported

NNW 1/2 - 1 Mile Higher

Range:

Status:

Subsection:

MN WELLS

ST. LOUIS

Not Reported

Not Reported

08/21/1979

08/18/1991

Not Reported

135

114

3069168762

#### Principal Well Information:

Unique Well #: Township:

Location Method

168762

58

18

AA Not Reported

7.5 Minute Quadrangle: Not Reported

Depth Drilled (in Ft.): 135 Active

Geographic Coordinates Method: Well Name: HINES, THOMAS

Local Identifier: Not Reported Data Source/Driller's License #:

Casing Diam (in):

Permit #: Not Reported First Bedrock: Not Reported Open Interval-Top: Not Reported DNR Application #: Not Reported Not Reported

Well Sealed ?: Aquifer: Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type:

Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Use: Domestic

Elevation Method:

Not Reported

Not Reported

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Not Reported

Not Reported Not Reported Not Reported Not Reported

Not Reported

### Well Address Information:

Well Address:

### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count:Not Reported Detection Limit Flag: Not Reported Coliform Sampling Date: Not Reported Coliform Analysis Source: Not Reported Colif. Analys. Reliability: Not Reported Bacteria Analysis Technique: Not Reported Nitrate Count (mg/l): Nitrate Detection Limit Flag: Not Reported Not Reported Nitrate Sampling Date: Not Reported Nitrate Analysis Source: Not Reported Nit. Analys. Reliability: Not Reported Nit. Analysis Technique: Not Reported Static Water Lev. (in Ft.)25 Date Static Level measured: 08/21/1979 Static Water Level Data Source/Driller's License #: 48038

### Remarks:

VILLAGE OF MOUNTAIN IRON

SSE 1/2 - 1 Mile Lower

**FED USGS** 

473059092365401

### **BASIC WELL DATA**

Site Type:

Year Constructed: Altitude: Well Depth: Depth to Water Table:

Date Measured:

1415.00 ft. 16.52 ft.

11.18 ft.

07201959

Not Reported County: State:

Single well, other than collector or Ranney type

Topographic Setting: Prim. Use of Site: Prim. Use of Water:

County:

Section

Locator:

Date drilled:

Not Reported

Owner's Name:

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

St. Louis Minnesota Not Reported

Withdrawal of water Domestic

20 SSE

1/2 - 1 Mile Lower

MN WELLS 2023809069

### Principal Well Information:

Unique Well #: 238090 Township: 58 Range: 18 Subsection: BAAA Location Method Not Reported

7.5 Minute Quadrangle: 320D Depth Drilled (in Ft.): 17 Status: Active

Geographic Coordinates Method: Well Name: KOLVUNEN, HJALMER

Local Identifier: Not Reported Data Source/Driller's License #: Casing Diam (in): Permit #: Not Reported

First Bedrock: Not Reported Open Interval-Top: Not Reported DNR Application #: Not Reported Well Sealed ?:

Not Reported Pleistocene, clay + sand + silt - pebble free

Local Identifier Type: Not Reported Depth Cased (in Ft.):

Permit Type: Wellhead Protection Area: Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Not Reported Not Reported Not Reported Not Reported

ST. LOUIS

Not Reported

Not Reported

08/18/1991

15

1422

Not Reported Not Reported Not Reported Not Reported

Aquifer: Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type:

Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Not Reported Not Reported Not Reported

Use:

Domestic

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Not Reported Not Reported

Indicator of the existence of a digitized UTM location for this well:

Not Reported

Not Reported

Not Reported

### Well Address Information:

Well Address:

Not Reported

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported

Bacteria Analysis Technique: Nitrate Detection Limit Flag: Nitrate Analysis Source: Nit. Analysis Technique: Date Static Level measured:

Coliform Analysis Source:

Not Reported Not Reported Not Reported Not Reported Not Reported Not Reported

Static Water Lev. (in Ft.):

Detection Limit Flag:

07/20/1959

ST. LOUIS

Not Reported

Not Reported

Not Reported

Not Reported

08/18/1991

9

1462

Static Water Level Data Source/Driller's License #:

Not Reported

County:

Section

Locator:

Date drilled:

Not Reported

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

F21 West

238083

MN WELLS 2023808369

### Principal Well Information:

1/2 - 1 Mile Higher

> Unique Well #: Township:

58 Range: 18 Subsection: DBBD

Location Method Not Reported 7.5 Minute Quadrangle: 320C Depth Drilled (in Ft.): 53 Status: Active

Geographic Coordinates Method: Well Name: BERGANINI, FRED Local Identifier:

Data Source/Driller's License #: Casing Diam (in): Permit #: Not Reported

First Bedrock: QWTA Open Interval-Top: DNR Application #: Well Sealed ?: Aquifer:

Not Reported

Not Reported Not Reported Not Reported Owner's Name: Local Identifier Type: Not Reported Depth Cased (in Ft.): Permit Type:

Wellhead Protection Area: Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Not Reported Not Reported Not Reported Not Reported Not Reported Not Reported

Pleistocene, clay + sand + silt - pebble free Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type:

Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Not Reported Not Reported Not Reported Not Reported

Use:

Domestic

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Not Reported Indicator of the availability of cuttings, core or downhole geophysical data for this well: Not Reported Indicator of the existence of a digitized UTM location for this well: Not Reported

#### Well Address Information:

Well Address:

Not Reported

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported

Static Water Lev. (in Ft.):

Detection Limit Flag: Coliform Analysis Source: Bacteria Analysis Technique: Nitrate Detection Limit Flag:

Nitrate Analysis Source: Nit. Analysis Technique: Date Static Level measured:

Not Reported

Not Reported Not Reported Not Reported Not Reported Not Reported Not Reported

09/17/1958

ST. LOUIS

Not Reported

08/18/1991

Not Reported

Not Reported

1473

32

1935

Static Water Level Data Source/Driller's License #:

MERRITT, BERT

Not Reported

Not Reported

Not Reported

Not Reported

F22 West 1/2 - 1 Mile Higher

MN WELLS 2023808469

#### Principal Well Information:

Unique Well #: 238084 Township: 58 Range: 18 Subsection: DBBB Location Method Not Reported 7.5 Minute Quadrangle: 320C

Depth Drilled (in Ft.): 32 Status: Active Geographic Coordinates Method:

Local Identifier: Not Reported Data Source/Driller's License #: Casing Diam (in):

Permit #: First Bedrock: Open Interval-Top: DNR Application #: Well Sealed ?:

Well Name:

Not Reported Aquifer: Pleistocene,clay + sand + silt - pebble free Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?:

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

County: Section

Elevation (in Ft.): Locator: Depth Completed (in Ft.):

Date drilled: Date of Last Update: Not Reported

Owner's Name: Local Identifier Type: Not Reported

Depth Cased (in Ft.): Permit Type: Wellhead Protection Area: Open Interval-Bottom Unit: Well Grouted ?:

Date Well Abandoned:

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported Not Reported Not Reported Not Reported Not Reported

Use:

Domestic

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Not Reported Not Reported Not Reported

### Well Address Information:

Well Address:

Not Reported

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported Static Water Lev. (in Ft.):

Static Water Level Data Source/Driller's License #:

Detection Limit Flag: Coliform Analysis Source: Bacteria Analysis Technique: Nitrate Detection Limit Flag: Nitrate Analysis Source:

Nit. Analysis Technique: Date Static Level measured:

Not Reported

Not Reported Not Reported Not Reported Not Reported

Not Reported Not Reported 09/17/1958

2022915269

MN WELLS

ST. LOUIS

Not Reported

08/18/1991

Not Reported

3

1476

230

1915

#### G23 North 1/2 - 1 Mile Higher

#### Principal Well Information:

Unique Well #: 229152 Township: 58 Range: 18 Subsection: CCCD Location Method Not Reported 7.5 Minute Quadrangle: 320D Depth Drilled (in Ft.): 250 Status: Active Geographic Coordinates Method: Well Name: MOUNTAIN IRON

Local Identifier: Not Reported Data Source/Driller's License #:

Casing Diam (in): Not Reported Permit # Not Reported First Bedrock: **PEBI** Open Interval-Top: Not Reported DNR Application #: Not Reported Well Sealed ?: Not Reported

Aquifer: **BIWABIK IRON-FORMATION** Depth to Bedrock (Ft.):

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type:

Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

County: Section

Elevation (in Ft.): Locator:

Depth Completed (in Ft.): Date drilled:

Date of Last Update: Not Reported Owner's Name:

Local Identifier Type: Not Reported Depth Cased (in Ft.):

Permit Type: Wellhead Protection Area: Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported Not Reported Not Reported Not Reported Not Reported Not Reported

Use:

Municipal

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Not Reported Not Reported Not Reported Not Reported Not Reported

#### Well Address Information:

Well Address:

Not Reported

#### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported

100

Static Water Lev. (in Ft.): Static Water Level Data Source/Driller's License #: Detection Limit Flag: Coliform Analysis Source: Bacteria Analysis Technique: Nitrate Detection Limit Flag:

Nitrate Analysis Source: Nit. Analysis Technique:

Date Static Level measured:

Not Reported

Not Reported Not Reported

Not Reported Not Reported Not Reported Not Reported

Not Reported

MN1690035

FRDS PWS

G24 North 1/2 - 1 Mile Higher

PWS ID:

MN1690035 Not Reported

PWS Status: Not Reported Date DeactivatedNot Reported

Date Initiated: PWS Name:

MOUNTAIN IRON

CITY OF MOUNTAIN IRON MOUNTAIN IRON, MN 55768

Treatment Objective: DISINFECTION

Treatment Process: GASEOUS CHLORINATION, POST

Source: Ground water

Addressee / Facility:

System Owner/Responsible Party

MOUNTAIN IRON MUNC WATER SUPPL

C/O ADMINISTRATOR

BOX 505

MT IRON, MN 55758

Facility Latitude:

Not Reported

Facility LongitudeNot Reported

City Served: Treatment Class: Not Reported

Treated

Population:

3621

PWS currently has or had major violation(s) or enforcement:

### VIOLATIONS INFORMATION:

Violation ID:

Violation Type:

9300054 01/01/93 Source ID:

Not Reported

PWS Phone: Vio. Period:

2187358267 1 Month

Vio. beginning Date: Num required Samples:

Not Reported

Vio. end Date: 01/31/93 Number of Samples Taken: Maximum Contaminant Level:

Not Reported Not Reported

Analysis Result: Analysis Method: Not Reported Not Reported

Monitoring, Routine Major (TCR)

Contaminant:

COLIFORM (TCR)

Vio. Awareness Date:

Map ID Direction Distance Elevation Database EDR ID Number H25 SE MN WELLS 2023965069 1/2 - 1 Mile Lower Principal Well Information: Unique Well #: 239650 Township: 58 County: ST. LOUIS Range: 18 Section 15 Subsection: **ABAC** Elevation (in Ft.): 1425 Location Method Not Reported Locator: Not Reported 7.5 Minute Quadrangle: 320D Depth Completed (in Ft.): 48 Depth Drilled (in Ft.): 48 Date drilled: 07/26/1956 Status: Active Date of Last Update: 08/18/1991 Geographic Coordinates Method: Not Reported Well Name: **TEST WELL** Owner's Name: Not Reported Local Identifier: Local Identifier Type: Not Reported Not Reported Data Source/Driller's License #: Not Reported Casing Diam (in): Not Reported Depth Cased (in Ft.): Not Reported Permit #: Not Reported Permit Type: Not Reported First Bedrock: Not Reported Wellhead Protection Area: Not Reported Open Interval-Top: Not Reported Open Interval-Bottom Unit: Not Reported DNR Application #: Not Reported Well Grouted ?: Not Reported Well Sealed ?: Not Reported Date Well Abandoned: Not Reported Aquifer: Not Reported Depth to Bedrock (Ft.): Not Reported Any other Unused, Abandoned Well on Property ?: Not Reported Potential Pollution Source Type: Not Reported Potential Pollution Source Distance (in Ft.): Not Reported Potential Pollution Source Direction: Not Reported Use: Test Well 7.5-minute Topographic Map (+ or - 5 Feet) Elevation Method: Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Not Reported Indicator of the availability of cuttings, core or downhole geophysical data for this well: Not Reported Indicator of the existence of a digitized UTM location for this well: Not Reported Well Address Information: Well Address: Not Reported H26 MN WELLS 2023965169 1/2 - 1 Mile Principal Well Information: Unique Well #: 239651 Township: 58 County: ST. LOUIS Range: 18 Section 15 Subsection: ABAC Elevation (in Ft.): 1425 Location Method Not Reported Locator: Not Reported 7.5 Minute Quadrangle: 320D Depth Completed (in Ft.): 45 Depth Drilled (in Ft.): 45 Date drilled: 07/26/1956 Status: Active Date of Last Update: 08/18/1991

Not Reported

Geographic Coordinates Method:

Well Name: U.S. GEO. SURVEY Owner's Name: Not Reported Local Identifier: Not Reported Local Identifier Type: Not Reported Data Source/Driller's License #: Not Reported Casing Diam (in): Not Reported Depth Cased (in Ft.): Not Reported Permit #: Not Reported Permit Type:

Not Reported First Bedrock: Not Reported Wellhead Protection Area: Not Reported Open Interval-Top: Not Reported Open Interval-Bottom Unit: Not Reported DNR Application #: Not Reported Well Grouted ?: Not Reported Well Sealed ?: Not Reported Date Well Abandoned: Not Reported

Aquifer: Not Reported Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property?:
Potential Pollution Source Type:
Potential Pollution Source Distance (in Ft.):
Potential Pollution Source Direction:
Not Reported
Not Reported
Not Reported

Use: Test Well
Elevation Method: 7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base:
Indicator that an entry for this well exists in the State Water Use Data System:
Data exist for this well in the PCA Integrated Ground-Water Information System:
Indicator of the availability of cuttings, core or downhole geophysical data for this well:
Indicator of the existence of a digitized UTM location for this well:

Not Reported
Not Reported
Not Reported
Not Reported

Well Address Information:

Well Address: Not Reported

27 SW 1/2 - 1 Mile FED USGS 473057092375001

**BASIC WELL DATA** 

Lower

Higher

Higher

Site Type: Single well, other than collector or Ranney type

Year Constructed: 1967 County: St. Louis Altitude: 1424.00 ft. Minnesota Well Depth: 30.00 ft. Topographic Setting: Not Reported Depth to Water Table: Not Reported Not Reported Prim. Use of Site: Date Measured: Not Reported Prim. Use of Water: Not Reported

G28
North
1/2 - 1 Mile
FED USGS 473159092371901

BASIC WELL DATA

Site Type: Single well, other than collector or Ranney type

Year Constructed: 1915 County: St. Louis Altitude: 1480.00 ft. State: Minnesota Well Depth: 230.00 ft. Topographic Setting: Not Reported Depth to Water Table: 100.00 ft. Prim. Use of Site: Withdrawal of water Date Measured: Not Reported Prim. Use of Water: Public supply

29 WNW MN WELLS 2023930169 1/2 - 1 Mile

### Principal Well Information:

Unique Well #: Township:

239301 58

Range:

18

County: Section

ST. LOUIS

Subsection:

**BDAD** Not Reported

Elevation (in Ft.): Locator:

1500 Not Reported

Location Method 7.5 Minute Quadrangle: 320C

Depth Completed (in Ft.): Date drilled:

42

Depth Drilled (in Ft.):

42 Inactive

Date of Last Update:

09/17/1958 08/18/1991

Status: Well Name:

Geographic Coordinates Method: U.S. STEEL CORP.

Not Reported Owner's Name:

Not Reported

Local Identifier: Data Source/Driller's License #:

Not Reported

Local Identifier Type: Not Reported

Not Reported

Casing Diam (in):

Not Reported

Depth Cased (in Ft.): Permit Type:

Not Reported Not Reported Not Reported

Permit #: First Bedrock: Open Interval-Top: DNR Application #:

Not Reported QUUU Not Reported Not Reported

Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Wellhead Protection Area:

Not Reported Not Reported Not Reported

Well Sealed ?: Aquifer:

Pleistocene, clay + sand + silt - pebble free Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?:

Not Reported

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.):

Not Reported Not Reported Not Reported

Potential Pollution Source Direction: Use: Abandoned

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Not Reported Not Reported Not Reported Not Reported

Indicator of the existence of a digitized UTM location for this well:

Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

### Well Address Information:

Nit. Analys. Reliability:

Well Address:

Not Reported

### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported

Detection Limit Flag: Coliform Analysis Source: Bacteria Analysis Technique: Nitrate Detection Limit Flag: Nitrate Analysis Source: Not Reported

Static Water Lev. (in Ft.): 38 Static Water Level Data Source/Driller's License #:

Not Reported Nit. Analysis Technique: Not Reported Date Static Level measured: 09/17/1958

Not Reported

130 SE 1/2 - 1 Mile

Lower

**FED USGS** 

473058092363002

### **BASIC WELL DATA**

Site Type:

Single well, other than collector or Ranney type

Year Constructed: Altitude:

1967 1420.00 ft.

County: State:

St. Louis Minnesota

Well Depth: Depth to Water Table:

Not Reported Not Reported

Topographic Setting: Prim. Use of Site:

Not Reported Test

Date Measured:

Not Reported

Prim. Use of Water:

Map ID Direction Distance Elevation

Database

EDR ID Number

131

SE 1/2 - 1 Mile Lower

**FED USGS** 

473058092363001

**BASIC WELL DATA** 

Site Type:

Single well, other than collector or Ranney type

Year Constructed: Altitude:

1968 1420.00 ft. County: State:

St. Louis

Well Depth:

Not Reported

Topographic Setting:

Minnesota Not Reported

Depth to Water Table:

Not Reported

Prim. Use of Site:

Test

Date Measured:

Not Reported

Prim. Use of Water:

County:

Section

Locator:

Date drilled:

Not Reported

Not Reported

Permit Type:

Well Grouted ?:

Not Reported

Not Reported

Not Reported

Not Reported

Owner's Name:

Elevation (in Ft.):

Depth Completed (in Ft.):

Date of Last Update:

Local Identifier Type:

Depth Cased (in Ft.):

Wellhead Protection Area:

Open Interval-Bottom Unit:

Date Well Abandoned:

Not Reported

1/2 - 1 Mile

MN WELLS

15

36

1420

2023965269

**Principal Well Information:** 

Unique Well #:

Location Method

Depth Drilled (in Ft.):

239652

Township: Range: Subsection:

Status:

58 18

**ACBB** 

Not Reported 7.5 Minute Quadrangle: 320D

36 Active

Geographic Coordinates Method: Well Name: U.S. GEO. SURVEY

Local Identifier: Not Reported Data Source/Driller's License #: Casing Diam (in): Not Reported

Permit #: Not Reported First Bedrock: Not Reported Open Interval-Top: Not Reported DNR Application #: Not Reported Well Sealed ?: Not Reported

Aquifer: Not Reported Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.):

Potential Pollution Source Direction:

Use: Test Well

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

ST. LOUIS

Not Reported

08/09/1956

08/18/1991

Not Reported

Data for this well are contained in the DNT Observation Well Network Data base:

Not Reported Not Reported Not Reported Not Reported

Not Reported

Well Address Information:

Well Address:

Map ID Direction Distance Elevation

Database

EDR ID Number

33 ESE

**FED USGS** 

473108092361801

1/2 - 1 Mile Lower

**BASIC WELL DATA** 

Site Type:

Single well, other than collector or Ranney type Not Reported

County:

St. Louis

Year Constructed: Altitude:

1430.00 ft.

State:

Minnesota

Well Depth: Depth to Water Table: Not Reported Not Reported

Topographic Setting: Prim. Use of Site:

Not Reported Not Reported

Date Measured:

Not Reported

Prim. Use of Water:

Not Reported

NNW 1/2 - 1 Mile

Higher

**FED USGS** 

473203092372701

**BASIC WELL DATA** 

Site Type:

Single well, other than collector or Ranney type

Year Constructed:

1915 1475.00 ft. County: State:

St. Louis

Altitude: Well Depth:

Not Reported

Topographic Setting:

Minnesota Not Reported Withdrawal of water

Depth to Water Table: Date Measured:

171.20 ft. Not Reported Prim. Use of Site: Prim. Use of Water:

Public supply

J35 North

1/2 - 1 Mile Higher

MN WELLS 2023915269

ST. LOUIS

Not Reported

Not Reported

08/18/1991

1500

360

### Principal Well Information:

Unique Well #:

Location Method

7.5 Minute Quadrangle:

Depth Drilled (in Ft.):

239152

Township: Range: Subsection:

Status:

Well Name:

Permit #:

Local Identifier:

Casing Diam (in):

Open Interval-Top:

First Bedrock:

58 18

**CCBB** 

Not Reported

320D

360

Active

Geographic Coordinates Method: OLIVER IRON CO.

Not Reported

Data Source/Driller's License #: Not Reported

> Not Reported Not Reported Not Reported

Not Reported

DNR Application #: Not Reported Well Sealed ?: Not Reported Aquifer: Not Reported

Depth to Bedrock (Ft.):

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

County: Section

Elevation (in Ft.): Locator: Depth Completed (in Ft.):

Date drilled: Date of Last Update:

Not Reported Owner's Name: Local Identifier Type: Not Reported

Not Reported

Not Reported

Not Reported

Not Reported

Depth Cased (in Ft.): Permit Type: Wellhead Protection Area:

Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Not Reported Not Reported

Not Reported Not Reported Not Reported Not Reported Not Reported

Use:

Not Reported

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Not Reported Not Reported Not Reported

Not Reported

Indicator of the existence of a digitized UTM location for this well:

Not Reported

#### Well Address Information:

Well Address:

Not Reported

WSW 1/2 - 1 Mile Higher

**FED USGS** 

473110092382001

#### **BASIC WELL DATA**

Site Type:

Year Constructed:

Single well, other than collector or Ranney type Not Reported

St. Louis

Altitude:

1423.00 ft. 57.00 ft.

State:

Minnesota

Well Depth: Depth to Water Table: Date Measured:

Not Reported Not Reported Topographic Setting: Prim. Use of Site: Prim. Use of Water:

Not Reported Not Reported Not Reported

West 1/2 - 1 Mile Higher

MN WELLS 2023930369

ST. LOUIS

Not Reported

09/17/1958

08/18/1991

Not Reported

1500

### **Principal Well Information:**

Unique Well #:

Location Method

7.5 Minute Quadrangle:

Depth Drilled (in Ft.):

239303 58

Township: Range: Subsection:

Status:

Well Name:

18 **BCDD** 

Not Reported

320C

30

Inactive Geographic Coordinates Method:

U.S. STEEL CORP.

Not Reported

Data Source/Driller's License #: Casing Diam (in):

Permit #: First Bedrock:

Well Sealed ?:

Aquifer:

Open Interval-Top:

DNR Application #:

Local Identifier:

Not Reported

QUUU Not Reported

Not Reported

Not Reported

County: Section

Elevation (in Ft.): Locator:

Depth Completed (in Ft.):

Date drilled: Date of Last Update:

Not Reported Owner's Name:

Local Identifier Type: Not Reported

Depth Cased (in Ft.): Permit Type: Wellhead Protection Area:

Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Pleistocene,clay + sand + silt - pebble free Not Reported

Depth to Bedrock (Ft.): Any other Unused, Abandoned Well on Property ?:

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Not Reported Not Reported Not Reported Not Reported

TC621494.4s Page A-32

Use:

Abandoned

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Not Reported Not Reported

Not Reported

Indicator of the existence of a digitized UTM location for this well:

Not Reported

Not Reported

### Well Address Information:

Well Address:

Not Reported

### Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported

Detection Limit Flag: Not Reported Coliform Analysis Source: Not Reported Bacteria Analysis Technique: Not Reported Nitrate Detection Limit Flag: Not Reported Nitrate Analysis Source: Not Reported Nit. Analysis Technique:

Static Water Lev. (in Ft.): 24

Date Static Level measured:

Not Reported 09/17/1958

Static Water Level Data Source/Driller's License #:

Not Reported

ST. LOUIS

K38 West 1/2 - 1 Mile Higher

Status:

MN WELLS 2023929969

### Principal Well Information:

Unique Well #: 239299 Township: 58 Range: 18 Subsection: **CBAA** Location Method

County: Section Not Reported

Elevation (in Ft.): 1497 Locator: Not Reported Depth Completed (in Ft.):

7.5 Minute Quadrangle: 320C Depth Drilled (in Ft.): 28

Date drilled: Inactive

07/21/1959 Date of Last Update: 08/18/1991 Not Reported

Geographic Coordinates Method: Well Name:

U.S. STEEL CORP. Not Reported

Owner's Name: Not Reported Local Identifier Type: Not Reported

Local Identifier: Data Source/Driller's License #:

Not Reported Depth Cased (in Ft.): Not Reported

Casing Diam (in): Permit #: Not Reported First Bedrock: Not Reported Open Interval-Top: QUUU DNR Application #: Not Reported Well Sealed ?: Not Reported

Permit Type: Not Reported Wellhead Protection Area: Not Reported Open Interval-Bottom Unit: Not Reported Well Grouted ?: Not Reported Date Well Abandoned: Not Reported

Aquifer: Pleistocene, clay + sand + silt - pebble free Depth to Bedrock (Ft.):

Not Reported Any other Unused, Abandoned Well on Property ?:

Not Reported Not Reported Not Reported Not Reported

Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Use:

Abandoned

Elevation Method:

7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Not Reported Indicator of the availability of cuttings, core or downhole geophysical data for this well: Not Reported Not Reported

Indicator of the existence of a digitized UTM location for this well:

Well Address Information:

Well Address:

Not Reported

Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Coliform Sampling Date: Not Reported Colif. Analys. Reliability: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Sampling Date: Not Reported Nit. Analys. Reliability: Not Reported

Static Water Lev. (in Ft.):

Static Water Level Data Source/Driller's License #:

Detection Limit Flag: Coliform Analysis Source: Bacteria Analysis Technique: Nitrate Detection Limit Flag: Nitrate Analysis Source:

Nit. Analysis Technique: Date Static Level measured:

Not Reported

Not Reported Not Reported

Not Reported Not Reported Not Reported Not Reported

07/21/1959

2023930469

MN WELLS

ST. LOUIS

Not Reported

09/17/1958

08/18/1991

Not Reported

1509

30

West 1/2 - 1 Mile Higher

K39

Principal Well Information:

Unique Well #: Township:

239304 58 18

Range: Subsection: BCDD Location Method Not Reported

7.5 Minute Quadrangle: 320C Depth Drilled (in Ft.): 30

Status: Inactive Geographic Coordinates Method:

Well Name: Local Identifier:

U.S. STEEL CORP. Not Reported

Not Reported

QUUU

Data Source/Driller's License #: Casing Diam (in): Permit #: Not Reported

First Bedrock: Open Interval-Top: DNR Application #:

Not Reported Well Sealed ?: Not Reported Aquifer: Pleistocene, clay + sand + silt - pebble free Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.):

Potential Pollution Source Direction:

County: Section

Elevation (in Ft.): Locator:

Depth Completed (in Ft.): Date drilled:

Date of Last Update: Not Reported

Owner's Name: Local Identifier Type: Not Reported Depth Cased (in Ft.):

Permit Type: Wellhead Protection Area: Open Interval-Bottom Unit:

Well Grouted ?: Date Well Abandoned:

Not Reported Not Reported Not Reported

Use: Abandoned

Elevation Method: 7.5-minute Topographic Map (+ or - 5 Feet)

Data for this well are contained in the DNT Observation Well Network Data base: Not Reported Indicator that an entry for this well exists in the State Water Use Data System: Not Reported Data exist for this well in the PCA Integrated Ground-Water Information System: Not Reported Indicator of the availability of cuttings, core or downhole geophysical data for this well: Not Reported Indicator of the existence of a digitized UTM location for this well: Not Reported

Well Address Information:

Well Address:

Not Reported

Coliform/Nitrate/Static Water Level Information:

Coliform Bacteria Count: Not Reported Detection Limit Flag: Not Reported Coliform Sampling Date: Not Reported Coliform Analysis Source: Not Reported Colif. Analys. Reliability: Not Reported Bacteria Analysis Technique: Not Reported Nitrate Count (mg/l): Not Reported Nitrate Detection Limit Flag: Not Reported Nitrate Sampling Date: Not Reported Nitrate Analysis Source: Not Reported Nit. Analys. Reliability: Not Reported Nit. Analysis Technique: Not Reported Static Water Lev. (in Ft.): 23 Date Static Level measured: 09/17/1958

Static Water Level Data Source/Driller's License #:

Not Reported

SSE 1/2 - 1 Mile Lower

**Principal Well Information:** Unique Well #: 155419

Township: 58 County: ST. LOUIS Range: 18 Section 15

Subsection: Not Reported Elevation (in Ft.): Not Reported Location Method Not Reported Locator: Not Reported 7.5 Minute Quadrangle: Not Reported Depth Completed (in Ft.): 125

Depth Drilled (in Ft.): 125 Date drilled: 11/14/1978 Status: Active Date of Last Update: 08/18/1991 Geographic Coordinates Method: Not Reported

Well Name: MCDONALD, JOHN Owner's Name: Not Reported Local Identifier: Not Reported Local Identifier Type: Not Reported Data Source/Driller's License #: Not Reported

Casing Diam (in): Depth Cased (in Ft.): 125 Permit #: Not Reported Permit Type: Not Reported First Bedrock: Not Reported Wellhead Protection Area: Not Reported Open Interval-Top: Not Reported Open Interval-Bottom Unit: Not Reported DNR Application #: Not Reported Well Grouted ?: Not Reported

Well Sealed ?: Not Reported Not Reported Date Well Abandoned: Aquifer: Not Reported Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Not Reported Potential Pollution Source Type: Not Reported Potential Pollution Source Distance (in Ft.): Not Reported

Potential Pollution Source Direction: Not Reported MN WELLS

Use:

Domestic

Elevation Method:

Not Reported

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well:

Not Reported Not Reported Not Reported

Indicator of the existence of a digitized UTM location for this well:

Not Reported Not Reported

#### Well Address Information:

Well Address:

Not Reported

L41 NW

1/2 - 1 Mile Higher

**FED USGS** 

473159092380802

### **BASIC WELL DATA**

Year Constructed:

Site Type:

Single well, other than collector or Ranney type

1935

County:

St. Louis

Altitude: Well Depth: 1475.00 ft. 32.00 ft.

State:

Minnesota Not Reported

Depth to Water Table:

25.00 ft.

Topographic Setting: Prim. Use of Site:

Withdrawal of water Domestic

Date Measured: Not Reported Prim. Use of Water:

L42 NW 1/2 - 1 Mile Higher

FED USGS

473159092380801

#### BASIC WELL DATA

Site Type:

Year Constructed:

Depth to Water Table:

Altitude: Well Depth:

1461.00 ft. 53.01 ft.

Not Reported

Single well, other than collector or Ranney type

County: State:

St. Louis Minnesota

Topographic Setting: Not Reported Withdrawal of water

Date Measured:

51.59 ft. 09171958

Prim. Use of Site: Prim. Use of Water:

Domestic

43 NNW 1/2 - 1 Mile Higher

**FED USGS** 

473211092374201

### **BASIC WELL DATA**

Site Type:

Single well, other than collector or Ranney type

Year Constructed: Altitude: Well Depth:

1919 1622.00 ft. 38.00 ft.

County: State: Topographic Setting:

St. Louis Minnesota

Depth to Water Table:

34.00 ft.

Prim. Use of Site:

Not Reported Withdrawal of water

Date Measured: 07201959 Prim. Use of Water: Domestic

NNE 1/2 - 1 Mile Higher

MN WELLS

County:

Section

Locator:

Elevation (in Ft.):

### **Principal Well Information:**

Unique Well #: 233047 Township: 58 Range: 18

Subsection: CA Location Method Not Reported 7.5 Minute Quadrangle: Not Reported Depth Drilled (in Ft.): 283

Status: Active Geographic Coordinates Method:

Well Name: **MINNTAC** Local Identifier: Not Reported Data Source/Driller's License #:

Casing Diam (in): Not Reported Permit #: Not Reported First Bedrock: Not Reported Open Interval-Top: Not Reported DNR Application #: Not Reported Well Sealed ?: Not Reported Aquifer: Not Reported

Depth to Bedrock (Ft.): Not Reported

Any other Unused, Abandoned Well on Property ?: Potential Pollution Source Type: Potential Pollution Source Distance (in Ft.): Potential Pollution Source Direction:

Use: Not Reported Elevation Method: Not Reported

Data for this well are contained in the DNT Observation Well Network Data base: Indicator that an entry for this well exists in the State Water Use Data System: Data exist for this well in the PCA Integrated Ground-Water Information System: Indicator of the availability of cuttings, core or downhole geophysical data for this well: Indicator of the existence of a digitized UTM location for this well:

Well Address Information:

Well Address: Not Reported

K45 West 1/2 - 1 Mile Higher

**BASIC WELL DATA** 

Site Type: Year Constructed: Altitude: Well Depth:

Depth to Water Table: 23.00 ft. Date Measured:

09171958

1949

1508.00 ft.

30.00 ft.

Single well, other than collector or Ranney type

County: State: Topographic Setting: Prim. Use of Site:

Minnesota Not Reported Withdrawal of water Prim. Use of Water: Domestic

St. Louis

ST. LOUIS

Not Reported Not Reported

08/18/1991

Not Reported

Not Reported

Not Reported

Depth Completed (in Ft.): 283 01/27/1975

Date drilled: Date of Last Update: Not Reported

Owner's Name: Local Identifier Type: Not Reported

Depth Cased (in Ft.): Not Reported Permit Type: Not Reported Wellhead Protection Area: Not Reported Not Reported

Open Interval-Bottom Unit: Well Grouted ?: Date Well Abandoned:

Not Reported Not Reported

Not Reported Not Reported Not Reported

> Not Reported Not Reported Not Reported

Not Reported Not Reported

FED USGS

### AREA RADON INFORMATION

Federal EPA Radon Zone for ST LOUIS County: 2

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L. : Zone 3 indoor average level < 2 pCi/L.

Zip Code: 55768 Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	3.300 pCi/L	100%	0%	0%

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 1999 from the U.S. Fish and Wildlife Service.

### HYDROGEOLOGIC INFORMATION

### AQUIFLOWR Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

### GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Amdt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### STATSGO: State Soil Geographic Database

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### ADDITIONAL ENVIRONMENTAL RECORD SOURCES

### FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-260-2805

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

### STATE RECORDS

#### Minnesota Groundwater Database

Source: Minnesota Geological Survey County Water Well Index (CWI)

Telephone: 612-627-4780

### **RADON**

**Area Radon Information:** The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

**EPA Radon Zones:** Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration