

ENVIRONMENTAL CONSTRAINTS

Overview

The Upper Mississippi River Corridor Redevelopment Area Redevelopment contains a variety of potential environmental issues associated with existing and historical land use resulting in both soil and groundwater contamination. A variety of information was used to determine and identify environmental constraints involving regulatory electronic data bases, paper file reviews, well records, and an examination of historical photography. Collectively, this information indicates that areas of potential environmental concern are disseminated throughout the Upper Mississippi River Corridor area as shown on Figure 5.3. However, the greatest area of potential environmental concern is concentrated in the south half and in particular the southwest quadrant of the corridor area. The environmental issues in this area is attributed to industrial land use, scrap yards, and other business activities.

Methods of Investigation

The following MPCA (federal and state) databases were searched for GIS map compilation. Brief file reviews were performed for Voluntary Investigation and Cleanup (VIC) and leaking underground storage tank (LUST) sites. Additional information was obtained from reviewing aerial photography (obtained from the University of Minnesota Library), and monitoring well registration records (obtained from the Minnesota Geological Survey and from the City of Minneapolis). Street addresses for monitoring wells and LUST sites were geocoded to Hennepin County (x,y)-coordinates at the City of Minneapolis Engineering Department. This information has been compiled onto Figure 5.3.

DATABASES

The following ivIPCA databases were used in the assessment.

Federal - U.S. Environmental Protection Agency (EPA)

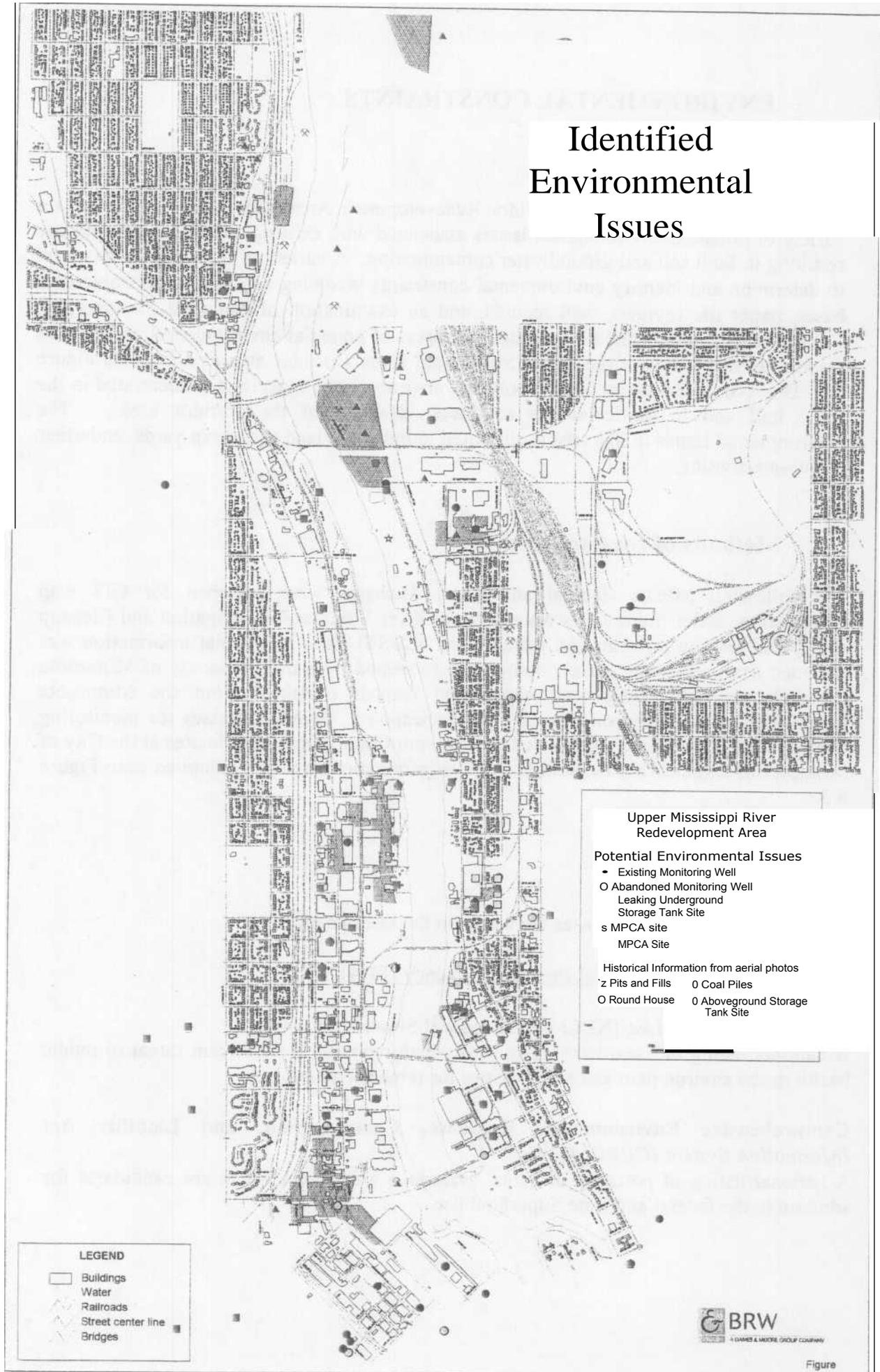
National Priorities List (NPL; a.k.a. federal Superfund list)

A national listing of hazardous waste sites which represent a significant threat to public health or the environment and are priorities for remedial action.

Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) list

A national listing of potential or actual hazardous waste sites which are candidates for addition to the federal and state Superfund list.

Identified Environmental Issues



Upper Mississippi River Redevelopment Area

Potential Environmental Issues

- Existing Monitoring Well
- Abandoned Monitoring Well
- Leaking Underground Storage Tank Site
- s MPCA site
- MPCA Site

Historical Information from aerial photos

- z Pits and Fills
- Coal Piles
- Round House
- Aboveground Storage Tank Site

LEGEND

- Buildings
- Water
- ~ Railroads
- Street center line
- Bridges



Figure

No Further Remedial Action Planned (NFRAP)

Sites that were removed from the CECLIS list by the U.S. EPA.

State - Minneavolis Pollution Control Agency Files**Permanent List of Priorities (PLP)**

A listing of hazardous wastes sites in Minnesota which represent a threat to public health and are remedial action priorities.

Deleted Permanent List of Priorities (DPLP)

Sites in Minnesota that have been deleted from the PLP listing.

Hazardous Waste Generator/Investigation and Cleanup List (HWIC)

A listing of sites in Minnesota that are presently being investigated or remediated.

List of Permitted Solid Waste Facilities (SW PERM)

A list of permitted sites in Minnesota where the handling or disposal of solid waste has been approved.

RCRA Treatment, Storage and Disposal Facilities (RCRE TSD)

A list of permitted facilities that are authorized to store hazardous waste on-site for more than 90 days, or are allowed to treat or dispose of hazardous waste.

1980 Metropolitan Area Waste Disposal Site Inventory (METRO)

A compilation of various unregulated disposal sites consisting of abandoned dumps, surface impoundment's, and sites where demolition debris, trees, fly ash, foundry sand and slag wastes were deposited. Sites were originally shown on either U.S. Geological Survey topographic maps, or on Hudson Street Maps. Generally, the available information for these sites is limited.

Voluntary Investigation and Cleanup Program (VIC)

A listing of Minnesota properties that have completed or ongoing environmental investigation and remediation activities. The VIC program is administered by the MPCA and provides technical assistance and administrative or legal assurances for individuals or businesses seeking to investigate or cleanup contaminated property. (See Table Summary).

Brownfield

Listing of abandoned, idled, or underused industrial and commercial properties in Minnesota where expansion or redevelopment is complicated by actual or suspected environmental contamination. For many of these urban sites, the state will provide assurances to enable redevelopment to occur without many of the associated environmental legal liabilities.

Other

A list of sites that have the potential for groundwater contamination, but do not otherwise meet the criteria for placement in one of the other MPCA-administered programs.

Minnesota No Further Action (MN-NFA)

A listing of MPCA-reviewed sites where soil or groundwater contamination is known or suspected, but have assigned no further action status due to the lack of known risks to the environment or to human health.

Minnesota Active and Closed Spills list

A listing of sites in Minnesota where spills have been reported. Generally, the available information for these sites is limited. This information was obtained, but not utilized for the GIS plot due to the limited amount of information available.

Minnesota Leaking Underground Storage Tank (LUST) lists

Listing of active and closed LUST sites in Minnesota (see Table summary).

HISTORICAL AERIAL PHOTOGRAPHS

Historical aerial photographs were used to identify the following features:

- Aboveground Storage Tanks (ASTs)
- Gravel pits (which have the potential to have been used for unregulated dumping)
- Coal piles (NSP Riverside Plant) high sulfur coal (historical usage) is generally associated with higher concentration of associated heavy metals. Upon sufficient wetting and oxidation, sulfides can be transformed into sulfuric acid and leach metals into underlying soils. Low sulfur coal is typically burned in order to satisfy regulatory emission requirements.
- Round house (railroad) maintenance activities and spillage may be associated with such structures.

The photographs were placed on an Art-O-Graph and projected onto a base map of the Upper Mississippi River Corridor Study Area. These locations were then digitized.

REVIEW OF ENVIRONMENTAL SETTING**MPCA VOLUNTARY INVESTIGATION AND CLEANUP (VIC) SITES**

A total of 30 VIC sites were identified within or adjacent to the corridor area. These sites and the contaminants associated with the properties are listed in Table 5.3 and summarized below.

NWIP Block 41, 1500 - 1520 Washington Avenue North, Project #5531

The MPCA database lists this 2.5-acre site as being active. Lead contamination of the soil and groundwater is the primary environmental issue for this property. According to Ms. Cathy Schultz (MPCA VIC Program), the property owner is working toward obtaining a Certificate of Completion from the MPCA.

Wilensky Properties, Vicinity of Washington Avenue North, Project #3680

Lead contamination of the soil was the primary environmental issue associated with this one-acre tract. According to Ms. Cathy Schultz, the site received a No Action Letter from the MPCA. The site is listed on the MPCA database as being active.

Minneapolis Lime, 3660 Technology Drive, Project #5280

This 10-acre site is listed on the MPCA database as being inactive.

Rocket Crane & Transfer Service Inc., 51 Lowry Avenue North, Project #4190

The MPCA lists this one-acre site as being inactive.

1977 West River Road, 1975 - 1977 West River Road, Project #2690

Both solvents and metals reportedly contaminate this 15-acre site. The VIC Section of the MPCA referred this site to Site Response Section. No further action has been taken by the MPCA, and the agency lists this site as being inactive.

Ambassador Press, 1400 Washington Avenue North, Project #8190

This 0.02-acre site is listed as active on the MPCA database. The soil at the site is reportedly contaminated with PCBs, lead, and petroleum. Ground water was not investigated at the site. The MPCA issued a No Association letter for the soil.

Mereen Johnson Machine Co., 4401 Lyndale Avenue North, Project #7980

The MPCA lists this 3-acre site as being active. Both soil and groundwater are contaminated. Non-petroleum contaminants were detected in groundwater. The MPCA is awaiting a work plan.

3K Paper, 3145 Columbia Avenue NE, Project #2400

Buried drums were reportedly encountered at this site during the excavation of footings (for new construction).

42 Avenue North and Aldrich Avenue, Project #1890

This one-acre site is listed by the MPCA as being inactive. Contaminated soil has been identified at this site. The site is not in the VIC program.

Airco Inc., 4652 Lyndale Avenue North, Project # 7760

This site encompasses 14 acres and is listed as being active on the MPCA database. Soil and groundwater were impacted at this site from lime sludge derived from acetylene welding. The site received a No Action Letter from the MPCA.

Gateway Foods, 3501 - 3601 Marshall Street NE, Project #2520

This site is listed by the MPCA as being inactive. The size of the parcel is not known. Both soil and groundwater were impacted by a variety of contaminants that includes: An ash layer, VOCs, PAHs, metals, and petroleum contaminants. The regulatory status of the site remains unresolved.

Grace-Lee, 1414 Marshall Street NE, Project #2020

The MPCA lists this one-acre site as being inactive. Soil and groundwater were contaminated with VOCs and petroleum. The site received a No Action Letter from the MPCA.

Hancock Nelson, 3003 North Pacific Street, Project #1290

The size of the parcel is not known. The MPCA lists this one-acre site as being inactive. The soil and groundwater have been contaminated with VOCs and petroleum. The MPCA issued an Off-Site Source Letter for this location.

Holiday Store, Washington Avenue #69, 2322 Washington Ave. N., Project #2480

This one-acre site is listed as being inactive by the MPCA. Originally investigated as a petroleum tank leak, chlorinated VOCs were detected in the groundwater. The chlorinated compounds are reportedly part of a larger contaminant plume that is present in this area. The site was issued a No Action Letter by the MPCA.

Japs Olson, 30 North 31st Avenue, Project #2970

This one-acre site is listed as being inactive by the MPCA. Chlorinated solvents have also impacted groundwater at this site. The MPCA issued an Off-Site Source Letter.

Kondirator (American Iron & Supply), 2800 Pacific Street, Project #2860

This 12-acre site is listed as being active by the MPCA. Metals, VOCs, PAHs, and PCBs have contaminated both soil and groundwater. The MPCA has approved an interim remedial action plan for the site.

MNDOT Washington Avenue, 1515 Washington Avenue North, Project #8830

The 0.25-acre site is listed as being active by the MPCA. Soil and groundwater have been contaminated with chlorinated VOCs, petroleum, and metals. The MPCA issued a Technical Assistance Letter for the site.

Pioneer Metal Finishing, 1717 West River Road North, Project #5641/5642

This 3- and 2.61-acre site is listed as being active in the MPCA database. Soil at the site has been contaminated with metals. The MPCA issued an Unlimited No Action Letter for this property.

Second Street Business Center, 2800 North Second Street, Project #3200

This 10-acre site is listed as being inactive by the MPCA. VOCs were detected in the groundwater and the MPCA issued a No Association Determination for the property.

UNITOG, 2306 Washington Avenue North, Project #3920

This one-acre site is listed as being active in the MPCA database. The groundwater is contaminated with chlorinated VOCs. A No Action Letter has been issued by the MPCA for the property.

2nd Street Recycling, 1601 2nd Street North, Project #8680

The MPCA database lists this one-acre site as being inactive. Only limited information for this site is available, but it is known that metals and petroleum products are present in the subsurface.

Graco, Inc., 60 11th Avenue NE, Project #3510

PCE its degradation products were identified at this one-acre site. The release was attributed to a tank leak. A No Action Letter has been issued by the MPCA for the property.

Vacant Property, 3641 Marshall Street NE, Project # 6770

This one-acre site is classified as being inactive by the MPCA. The site contains limited lead, petroleum, and pesticide contamination. A No Action Letter has been issued for the site. Similar assurances are reported to have been issued by the Minnesota Department of Agriculture (for pesticides) and the MPCA's VPIC program for the petroleum contamination.

A Chance to Grow, 112 - 19th Avenue NE, Project #7950

This 2.28-acre site contains VOCs, petroleum, and PAHs. A No Association Determination has been issued by the MPCA.

Impact Mailing, 4600 North Lyndale Avenue, Project # 9000

This inactive 0.01-acre site is listed as being inactive. Petroleum and VOCs were encountered at the property in the groundwater. A No Action Letter has been issued by the MPCA for the site.

Reutiman Property, Broadway Street and Water Street, Project #5520

This inactive 1.5-acre site contains metals and petroleum in the groundwater. A No Association Determination was issued for the soil (only) by the MPCA.

E & S Properties, 212 28th Avenue North, Project #4230

This one-acre site has been assigned an inactive status by the MPCA. The file has been archived and no further information is available.

Jaye Truax Company Site, 1901 Grand Street NE, Project #2220

This one-acre site has also been assigned an inactive status by the MPCA. The file has been archived and no further information is available.

Obelok Estate, 2129 & 2131 2nd Street North, Project #4340

This one-acre site has lead contamination in the soil. The file is inactive following the issuance of a Limited No Action Letter by the MPCA.

Garelick Steel, 1900 2nd Street North, Project #7100/7101

This 1.3-acre site retains an active status. Lead contamination was detected in the soil. The site has been issued a No Action Letter by the MPCA.

West River Road, 1315 West River Road, Project #5820

This active 4.11-acre site has a mixture of contaminants in the soil. The MPCA is awaiting the final report.

MPCA ACTIVE LUST SITES

A total of 71 leaking underground tank sites were identified within and adjacent to the corridor study area. A listing of these sites is provided in Table 5.3A. Files for five of these sites remain open and are summarized below.

Leak 9461, Public Works City Maintenance Garage, 1809 Washington Street NE,
This site contains petroleum-contaminated soils and is still under investigation.

Leak 6032, City of Minneapolis, 2700 N Pacific Street

A line rupture resulted in the loss of 80-gallons of diesel fuel at this site. The tanks are to be removed in 1998 in conjunction with a site investigation.

Leak 7884, Shorty & Swedes, 2700 Washington Avenue North

The tanks at this site were removed in 1996. The MPCA issued a letter requesting that additional investigation be performed. No further information available for this site.

Leak 6597, Peavy Shorham Grain Elevator, 2901 5th Street NE

Both soil & groundwater contamination is present at this site. A remedial investigation has been performed.

Leak 10690, Northside Demolition Project, 631 Bryant Avenue North.

Soil and groundwater contamination at site is present at this site. Diesel fuel is the primary petroleum constituent. A total of seven USTs have been removed from this site. An additional UST will be removed at the time of building demolition.

MONITORING WELLS

Monitoring wells are generally indicative of suspected or known groundwater contamination, except for those used in geotechnical investigations for water level measurements. Approximately 297 known monitoring wells have been placed within the corridor area. Following remedial investigation, many of these wells have been sealed for a remaining total of about 141 wells out of the 387 wells that were placed in and adjacent to the corridor study area. These wells are shown on Figure 5.3. More than one well may be present at a given site and for a given address may be stacked upon one

another. A listing of the wells is provided in Table **5.3B**. Street addresses are provided for sites where this information was available.

Table 5.3. MPCA Voluntary Investigation and Cleanup (VIC) Sites within or Adjacent to the Upper Mississippi River Master Plan Corridor Study Area.

Site	Address	PT #	Project Status	Size (acres)	Soil	Ground-water	Contaminants	Status
NWIP Block 41	1500 - 1520 Washington Avenue North	5531	Active	2.5	X	X	lead	working towards Certificate of Completion
Wilensky Properties	Vicinity of Washington Avenue North & ???	3680	Active	1	X		lead	No Action Letter
Minneapolis Lime	3660 Technology Drive	5280	Inactive	10	X	X	PAHs, VOCs	No Association Determination
Rocket Crane & Transfer Service Inc	51 Lowry Avenue North	4190	Inactive	1		X	petroleum, chlorinated VOCs	Status not known - inactive since 1994
1977 West River Road	1975 - 1977 West River Road	2690	Inactive	15		X	solvent, metals	referred to site response - no action taken
Ambassador Press	1400 Washington Avenue North	8190	Active	0.02	X	?	PCBs, lead, petroleum	no association letter for soil, gw not investigated
Mereen Johnson Machine Co	4401 Lyndale Avenue North	7980	Active	3	X	X	non-petroleum contaminants detected in groundwater	mPCA awaiting work plan
3K Paper	3145 Columbia Avenue NE	2400	Active	1	X	X	VOCs in groundwater, metals for soils, buried drums encountered	No Further Action - soil; Offsite Determination Letter for groundwater
42 Avenue North and Aldrich Avenue	42 Avenue North and Aldrich Avenue	1890	Inactive	1	X		check file	not in VIC
Airco Inc.	4652 Lyndale Avenue North	7760	Active	14	X	X	lime sludge from acetylene welding	No Action Letter
Gateway Foods	3501 - 3601 Marshall Street NE	2520	Inactive	NS	X	X	Ash layer, VOCs, PAHs, metals, petroleum	Unresolved
Grace-Lee	1414 Marshall Street NE	2020	Inactive	1	X	X	VOCs, petroleum, butyl-	No Action Letter
Hancock Nelson	3003 North Pacific Street	1290	Inactive	?		X	VOCs, petroleum	Off-site source letter

Site	Address	PT #	Project Status	Size (acres)	Soil	Ground-water	Contaminants	Status
Holiday Store, Washington Avenue #69	2322 Washington Avenue North	2480	Inactive	1		X	Petroleum tank leak, chlorinated VOCs	No Action Letter
Japs Olson	30 North 31 st Avenue	2970	Inactive	1		X	Chlorinated solvents	Off-site source letter
Kondirator (American Iron & Supply)	2800 Pacific Street	2860	Active	12	X	X	metals, VOCs, PAHs, PCBs	Interim remedial action plan approved by MPCA
MNDOT Washington Avenue	1515 Washington Avenue North	8830	Active	0.25	X	X	Chlorinated VOCs, petroleum, metals	MPCA issued technical assistance letter
Pioneer Metal Finishing	1717 West River Road North	41/56	Active	3 & 2.61	X		metals	Unlimited No Action Letter
Second Street Business Center	2800 North Second Street	3200	Inactive	1.0		X	VOCs	No Association Determination
UNITOG	2306 Washington Avenue North	3920	Active	1		X	Chlorinated VOCs	No Action Letter
2nd Street Recycling	1601 2nd Street North	8680	Inactive	1	X	?	metals & petroleum	Limited Information available
Graco, Inc.	60 11th Avenue NE	3510	Active	1	X	X	PCE & degradation products from tank	No Action Letter
Vacant Property	3641 Marshall Street NE	6770	Inactive	1	X		limited lead, petroleum, and pesticide	No Action Letter plus similar assurance from MDA and VPIC
A Chance to Grow (proposed school)	112 19th Avenue NE	7950	Active	2.28	X	X	VOCs, petroleum, PAHs	No Association Determination
Impact Mailing	4600 North Lyndale Avenue	9000	Inactive	0.01		X	petroleum, VOCs	No Action Letter
Reutiman Property	Broadway Street and Water Street	5520	Inactive	1.5		X	metals, petroleum	No Association Determination - soil only
E & S Properties	212 28th Avenue North	4230	Inactive	1	?	?	7	File archived
Jaye Truax Company Site	1901 Grand Street NE	2220	Inactive	1	7	?	7	File archived
Obelok Estate	2129 & 2131 2nd Street North	4340	Inactive	1	X		lead	Limited No Action Letter
Garelick Steel	1900 2nd Street North	00/71	Active	1.3	X		lead	No Action Letter
West River Road	1315 West River Road	5820	Active	4.11	X		mixture	MPCA awaiting final report

Table 5.3A. MPCA Leaking Underground Storage Tank Sites within or Adjacent to the Upper Mississippi River Master Plan Corridor Study Area.

	Leak ID	Name	Address	City	Zip	Site Closure	Comments on Active LUST Sites
1	7237	NORTHEAST STATE BANK REMOTE PARKING	1001 2ND ST NE	MINNEAPOLIS	55413	2-Oct-95	
2	3946	K & H PROPERTIES	101 1ST AVE NE	MINNEAPOLIS	55413	26-Jul-95	
3	6677	OLD BROADWAY THEATER	1014 W BROADWAY	MINNEAPOLIS	55411	2-Feb-94	
4	3469	GRACO RIVERSIDE PLANT	1024 SIBLEY ST NE	MINNEAPOLIS	55413	23-Sep-91	
5	3719	GRAINBELT OFFICE BUILDING	1215 MARSHALL ST NE	MINNEAPOLIS	55413	23-Sep-91	
6	6688	CHOSE AUTO SERVICE	1301 MARSHALL ST NE	MINNEAPOLIS	55413	24-Feb-95	
7	3721	BELL MANUFACTURING	1400 MARSHALL ST NE	MINNEAPOLIS	55413	12-Jan-98	
8	1573	GRACE LEE PRODUCTS INC	1414 MARSHALL ST NE	MINNEAPOLIS	55413	21-Jan-93	
9	7888	PROPERTY	1414 MARSHALL ST NE	MINNEAPOLIS	55413	1-Dec-94	
10	6936	SAM BLOOM IRON & METAL CO	1508-1600 N 2ND ST	MINNEAPOLIS	55411	27-Jun-94	
11	7893	B & B AD CRAFTERS	1516 MARSHALL AVE NE	MINNEAPOLIS	55413	26-Jan-95	
12	8778	HALL ELEMENTARY SCHOOL	1601 ALDRICH AVE N	MINNEAPOLIS	55411	24-Jul-96	
13	9555	OLD COLONY E-Z STOP STORE	1624 WASHINGTON AVE N	MINNEAPOLIS	55411	2-Mar-98	
14	8333	FORMER ADM NORTH STAR PLANT	1717 2ND ST NE	MINNEAPOLIS	55413	30-Jul-96	
15	10628	PIONEER METAL FINISHING	1717 W RIVER RD N	MINNEAPOLIS	55411	18-Mar-98	
16	9855	KIRSKHBAUN/KRUPP METALS CO	1728 N 2ND ST	MINNEAPOLIS	55411	16-Oct-97	
17	9461	PUBLIC WORKS CITY MAINTENANCE GARAGE	1809 WASHINGTON ST NE	MINNEAPOLIS	55413		petroleum contaminated soils, site under investigation
18	7242	PACKAGING CORP OF AMERICA	1821 NE MARSHALL ST	MINNEAPOLIS	55418	12-Aug-94	
19	1478	JAYE TRAUX & CO	1901 GRAND ST NE	MINNEAPOLIS	55418	13-Mar-95	
20	169	ROCHELLES ROSES	1903 22ND AVE NE	MINNEAPOLIS	55418	13-Nov-90	
21	3241	ERV MOEN	2110-2114 WASHINGTON	MINNEAPOLIS	55418	20-Oct-92	
22	1609	HUDSON FOODS/LAND-O-LAKES INC	2115 N 2ND ST	MINNEAPOLIS	55411	27-Mar-90	
23	6876	UNITOG RENTAL SERVICES	2306 WASHINGTON AVE N	MINNEAPOLIS	55411	9-Mar-94	
24	2574	HOLIDAY STATIONSTORE #69	2322 N WASHINGTON	MINNEAPOLIS	55411	31-Jul-96	
25	161	METROPOLITAN TRANSIT COMMISSION	2418 WASHINGTON AVE N	MINNEAPOLIS	55411	9-Mar-93	
26	3376	RIVER PALACE	2420 MARSHALL STREET NORT	MINNEAPOLIS	55418	16-Jan-92	
27	2595	LOWELLS AUTO REPAIR	2500 CALIFORNIA ST NE	MINNEAPOLIS	55418	5-Mar-92	
28	8077	WEB LABEL COMPANY	2518 N 2ND ST	MINNEAPOLIS	55418	18-Aug-95	
29	5166	FLITTIE MARSHALL CONCRETE PRODUCTS INC	2610 MARSHALL ST NE	MINNEAPOLIS	55418	8-Dec-92	
30	6032	CITY OF MINNEAPOLIS,	2700 N PACIFIC ST	MINNEAPOLIS	55411		80-gallons of diesel fuel lost at site due to line fit nturo, tgnkg to be removed 1 1998, investigation underway
31	7884	SHORTY & SWEDES';	2700 WASHINGTON AVE N	MINNEAPOLIS	55411		Tanks removed in 1996, MPCA issued letter tequeiting additlori l nvestigation, no further information available
32	708	AMERICAN IRON & STEEL SUPPLY CO	2800 PACIFIC ST N	MINNEAPOLIS	55411	2 Oct-92	
33	6\$97	PER'/Y SHORHAM GRAIN LEVATOR	2901 5TH ST NE	MINNEAPOLIS	55418		soil & groundwater contamination at site, remedial Investigati 'rfQfmed

	Leak ID	Name	Address	City	Zip	Site Closure	Comments on Active LUST Sites
34	675	FLEET ACQUISITION CORP	2932 N WASHINGTON	MINNEAPOLIS	55411	20-Feb-90	
35	422	ROTTH OIL COMPANY	2955 MARSHALL ST NE	MINNEAPOLIS	55418	19-Dec-95	
36	3931	JAPS-OLSON CO	30 N 31ST AVE	MINNEAPOLIS	55411	26-Jun-92	
37	5568	SUPERAMERICA #4056	300 NE BROADWAY	MINNEAPOLIS	55413	23-Dec-92	
38	9602	FORMER SUPER AMERICA	3100 LYNDAL AVE N	MINNEAPOLIS	55412	13-Dec-96	
39	1255	SEVEN ELEVEN #18544	3100 LYNDAL AVE N	MINNEAPOLIS	55412	30-Nov-90	
40	2558	NSP-RIVERSIDE GENERATING PLANT	3100 MARSHALL ST N E	MINNEAPOLIS	55418	13-Dec-96	
41	1252	SEVEN ELEVEN #20810	320 LOWRY AVE NE	MINNEAPOLIS	55418	8-May-92	
42	8746	FORMER SHELL STATION	3200 WASHINGTON AVE N	MINNEAPOLIS	55412	22-Dec-95	
43	1891	FORMER AUTO MILES BUILDING	3201 SECOND ST N	MINNEAPOLIS	55412	8-Nov-89	
44	7316	MITCHELL & BYRDS CAR CARE	3203 LYNDAL AVE N	MINNEAPOLIS	55412	6-Oct-95	
45	10005	FOLEY COMPANIES	3300 5TH ST NE	MINNEAPOLIS	55418	3-Oct-97	
46	3970	VACANT LOT	3300 MARSHALL STREET NORT	MINNEAPOLIS	55418	28-Jan-92	
47	6745	FORMER THERRES BROTHERS TEXACO	332 13TH AVE NE	MINNEAPOLIS	55413	9-Feb-95	
48	1587	GATEWAY FOODS OF MPLS INC	3501 MARSHALL NE	MINNEAPOLIS	55418	13-May-94	
49	4477	CAMDEN TRUCK STATION #90930	3636 WASHINGTON AVE N	MINNEAPOLIS	55412	15-May-96	
50	3770	DEXON	3842 WASHINGTON AVE N	MINNEAPOLIS	55412	15-Aug-91	
51	1059	DUNDEE CEMENT	3939 N 1ST ST	MINNEAPOLIS	55412	16-Jul-91	
52	684	DANA CORP	405 35TH AVE NE	MINNEAPOLIS	55418	30-Nov-90	
53	2786	MARIGOLD FOODS	420 W BROADWAY	MINNEAPOLIS	55411	30-Nov-90	
54	3400	MEREEN JOHNSON MACHINE CO	4401 NORTH LYNDAL AVE	MINNEAPOLIS	55412	20-Mar-95	
55	521	Q PETROLEUM	4501 LYNDAL AVE N	MINNEAPOLIS	55412	14-Feb-95	
56	9685	CAMDEN AUTO SERVICE	4535 LYNDAL AVE N	MINNEAPOLIS	55412	13-Dec-96	
57	4138	HOME BRANDS	4600 LYNDAL AVE N	MINNEAPOLIS	55412	10-Jun-92	
58	2934	MINNEAPOLIS AUTO PARTS	4640 LYNDAL AVENUE NORTH	MINNEAPOLIS	55412	10-Jul-92	
59	1394	GAF CORP	50 LOWRY AVE N	MINNEAPOLIS	55411	29-Jan-92	
60	3651	GAF CORPORATION	50 LOWRY AVE N	MINNEAPOLIS	55411	17-Jan-92	
61	640	ROCKET CRANE	51 N LOWRY	MINNEAPOLIS	55411	31-Aug-93	
62	1057	SCHERER BROTHERS LUMBER	52 9TH AVE NE	MINNEAPOLIS	55413	17-Apr-92	
63	1670	GRACO INC/MAIN PLANT	60 11TH AVE NE	MINNEAPOLIS	55413	20-Feb-90	
64	3484	GRACO INC/MAIN PLANT	60 11TH AVE NE	MINNEAPOLIS	55413	25-Nov-92	
65	188	MOBIL BROADWAY SERVICE #05KEY (UNOVEN)	626 W BROADWAY	MINNEAPOLIS	55411	1-Oct-97	
66	8379	M & M PRINTING	631 8TH AVE N	MINNEAPOLIS	55411	27-Jun-95	
67	10690;	NORTHSIPE DEMOLITON PROJECT	631 BRYAN' AVE N	MINNEAPOLIS	55411		soil & groundwater contamination at site (mostly diesel), 7 USTs removed from site, additional UST to be removed at time of building demolition
68	10912	AAA TRANSMISSION	80 BROADWAY NE	MINNEAPOLIS	55413	14-Nov-97	
69	5024	RENOVATED NW BELL BUILDING	816 21ST AVE N	MINNEAPOLIS	55411	8-Oct-97	
70	3445	GRACO TECHNICAL CENTER	88 11TH AVE NE	MINNEAPOLIS	55413	23-Sep-91	
71	8254	TRILLIUM PROPERTY	CALIFORNIA ST (BETWEEN 27T	MINNEAPOLIS	55418	26-Apr-95	

Table 5.3B. Listing of Groundwater Monitoring Wells within or Adjacent to the Upper Mississippi River Master Plan Corridor Study Area.

Unique Well Number	STREET	SITE ADDRESS	TYPE	Property Owner
465886	Washington Ave. & 14th Street		MGS	1226 Limited Partnership
465886	Washington Ave. & 14th Street		MGS	1226 Limited Partnership
465886	Washington Ave. & 14th Street		MGS	1226 Limited Partnership
465886	Washington Ave. & 14th Street		MGS	1226 Limited Partnership
465886	Washington Ave. & 14th Street		MGS	1226 Limited Partnership
465886	Washington Ave. & 14th Street		MGS	1226 Limited Partnership
465886	Washington Ave. & 14th Street		MGS	1226 Limited Partnership
535600	Pacific Street	2800	MGS	American Iron & Supply
535601	Pacific Street	2800	MGS	American Iron & Supply
535602	Pacific Street	2800	MGS	American Iron & Supply
535603	Pacific Street	2800	MGS	American Iron & Supply
535604	Pacific Street	2800	MGS	American Iron & Supply
473267			MGS	BNSF South Receiving Docket
473268			MGS	BNSF South Receiving Docket
473269			MGS	BNSF South Receiving Docket
473274			MGS	BNSF South Receiving Docket
465336	Second Street North	2800	MGS	Chase Company The
480082	Central Avenue NE	1 900	MGS	Citizens State Bank of St. James
480083	Central Avenue NE	1 900	MGS	Citizens State Bank of St. James
480084	Central Avenue NE	1 900	MGS	Citizens State Bank of St. James
457636	35th Avenue NE	405	MGS	Dana Corporation
457637	35th Avenue NE	405	MGS	Dana Corporation
465257	35th Avenue NE	405	MGS	Dana Corporation
465258	35th Avenue NE	405	MGS	Dana Corporation
482695	35th Avenue NE	405	MGS	Dana Corporation
503751	35th Avenue NE	405	MGS	Dana Corporation
454123	Washington Avenue North	2932	MGS	Fleet Acquisitions
454124	Washington Avenue North	2932	MGS	Fleet Acquisitions
454125	Washington Avenue North	2932	MGS	Fleet Acquisitions
457414	Marshall Street	3601	MGS	Gateway Foods
457415	Marshall Street	3601	MGS	Gateway Foods
457416	Marshall Street	3601	MGS	Gateway Foods
457417	Marshall Street	3601	MGS	Gateway Foods
472182	Marshall Street NE	3501	MGS	Gateway Foods
457668	Marshall Street NE	1 414	MGS	Grace Lee Products
457669	Marshall Street NE	1 414	MGS	Grace Lee Products
457670	Marshall Street NE	1414	MGS	Grace Lee Products
457671	Marshall Street NE	1 414	MGS	Grace Lee Products
552123	11th Avenue NE	60	MGS	Graco, Inc.
552124	11th Avenue NE	60	MGS	Graco, Inc.
552125	11th Avenue NE	60	MGS	Graco, Inc.
453863	Third Street NE	2631	MGS	Hardchrome, Inc.
453864	Third Street NE	2631	MGS	Hardchrome, Inc.
453865	Third Street NE	2631	MGS	Hardchrome, Inc.
533607	Washington Avenue North	2322	MGS	Holiday Companies
444203	University Avenue	2520	MGS	Imperial National
449829	Grand Street NE	1901	MGS	Jaye Truax and Company

Unique Well Number	STREET	SITE ADDRESS	TYPE	Property Owner
449830	Grand Street NE	1901	MGS	Jaye Truax and Company
449831	Grand Street NE	1901	MGS	Jaye Truax and Company
449832	Grand Street NE	1901	MGS	Jaye Truax and Company
449833	Grand Street NE	1901	MGS	Jaye Truax and Company
498662	Grand Street NE	1901	MGS	Loftman Building Fund
525827	(SE of)University & 13th Ave. NE		MGS	MCDA
525828	(SE of)University & 13th Ave. NE		MGS	MCDA
525829	(SE of)University & 13th Ave. NE		MGS	MCDA
432708	Boom Island		MGS	Minneapolis Park Board
432709	Boom Island		MGS	Minneapolis Park Board
432710	Boom Island		MGS	Minneapolis Park Board
448735	Boom Island		MGS	Minneapolis Park Board
448736	Boom Island		MGS	Minneapolis Park Board
448737	Boom Island		MGS	Minneapolis Park Board
448738	Boom Island		MGS	Minneapolis Park Board
448739	Boom Island		MGS	Minneapolis Park Board
448740	Boom Island		MGS	Minneapolis Park Board
448741	Boom Island		MGS	Minneapolis Park Board
417118	Columbia		MGS	NSP
417119	Columbia		MGS	NSP
417128	Columbia		MGS	NSP
417129	Columbia		MGS	NSP
493022	Marshall Street NE	3100	MGS	NSP
493023	Marshall Street NE	3100	MGS	NSP
493024	Marshall Street NE	3100	MGS	NSP
493025	Marshall Street NE	3100	MGS	NSP
493026	Marshall Street NE	3100	MGS	NSP
493027	Marshall Street NE	3100	MGS	NSP
493028	Marshall Street NE	3100	MGS	NSP
493029	Marshall Street NE	3100	MGS	NSP
493030	Marshall Street NE	3100	MGS	NSP
493031	Marshall Street NE	3100	MGS	NSP
518559	28th & Marshall		MGS	NSP
194838			MGS	NSP Riverside Storage Facility
194839			MGS	NSP Riverside Storage Facility
194840			MGS	NSP Riverside Storage Facility
194841			MGS	NSP Riverside Storage Facility
194842			MGS	NSP Riverside Storage Facility
194843			MGS	NSP Riverside Storage Facility
194844			MGS	NSP Riverside Storage Facility
194845			MGS	NSP Riverside Storage Facility
194846			MGS	NSP Riverside Storage Facility
417118			MGS	NSP Riverside Storage Facility
417119			MGS	NSP Riverside Storage Facility
496498	Grand Street NE	1913	MGS	Packaging Corporation of America
512153	Marshall & 22nd		MGS	Park Construction Co.
488773	Washington & Dowling		MGS	Rock Materials
498771	Washington & Dowling		MGS	Rock Materials
498772	Washington & Dowling		MGS	Rock Materials
508196	Lowry Avenue N	51	MGS	Rocket Crane
508197	Lowry Avenue N	51	MGS	Rocket Crane

Unique Well Number	STREET	SITE ADDRESS	TYPE	Property Owner
508198	Lowry Avenue N	51	MGS	Rocket Crane
443354	Marshall Street NE	2955	MGS	Roth Oil Co.
443355	Marshall Street NE	2955	MGS	Roth Oil Co.
443356	Marshall Street NE	2955	MGS	Roth Oil Co.
498658	Grand Street NE	1809	MGS	Siwek Lumber & Millwork, Inc.
498659	Grand Street NE	1809	MGS	Siwek Lumber & Millwork, Inc.
498660	Grand Street NE	1809	MGS	Siwek Lumber & Millwork, Inc.
498661	Grand Street NE	1814	MGS	Siwek Lumber & Millwork, Inc.
533657	47th Avenue N & Osseo Road		MGS	Soo Line RR
533658	47th Avenue N & Osseo Road		MGS	Soo Line RR
533659	47th Avenue N & Osseo Road		MGS	Soo Line RR
533660	47th Avenue N & Osseo Road		MGS	Soo Line RR
533661	47th Avenue N & Osseo Road		MGS	Soo Line RR
533662	47th Avenue N & Osseo Road		MGS	Soo Line RR
461033	Lowry Avenue NE	320	MGS	SuperAmerica
507071	Lowry Avenue NE	320	MGS	SuperAmerica
507072	Lowry Avenue NE	320	MGS	SuperAmenca
507073	Lowry Avenue NE	320	MGS	SuperAmerica
417126	Columbia Avenue SE	3145	MGS	Tool Tech
417127	Columbia Avenue SE	3145	MGS	Tool Tech
507955			MGS	Union Scrap Iron
507956			MGS	Union Scrap Iron
537601	Washington Avenue North	2306	MGS	Unitog
537602	Washington Avenue North	2306	MGS	Unitog
537603	Washington Avenue North	2306	MGS	Unitog
537634	Washington Avenue North	2306	MGS	Unitog
461001	Second Street North	2800	MGS	Washington Square
461002	Second Street North	2800	MGS	Washington Square
461003	Second Street North	2800	MGS	Washington Square
417117	California	3134	MGS	Whittaker Corporation
417121	California	3134	MGS	Whittaker Corporation
417122	California	3134	MGS	Whittaker Corporation
417123	California	3134	MGS	Whittaker Corporation
417124	California	3134	MGS	Whittaker Corporation
417125	California	3134	MGS	Whittaker Corporation
472979	31st Street North	30	MGS	
472980	31st Street North	30	MGS	
472981	31st Street North	30	MGS	
472982	31st Street North	30	MGS	
472983	Grand Street NE	1913	MGS	
559578	Fifth Street NE	2901	MGS	
559579	Fifth Street NE	2901	MGS	
559580	Fifth Street NE	2901	MGS	
100935	2 St N	1728	MW	
428277	Lyndale Ave N	4501	WA	
428300	Lyndale Ave N	4501	WA	
429465	Washington Ave N	1226	WA	
436330	Sibley 8th Ave	800	MW	
443354	Marshall St NE	2955	WA	
443355	Marshall St NE	2955	WA	
443356	Marshall St NE	2955	WA	

Unique Well Number	STREET	SITE ADDRESS	TYPE	Property Owner
443436	6 Ave N	505	MW	
443437	6 Ave N	505	MW	
448735	Sibley 8th Ave	800	MW	
448736	Sibley St NE	800	WA	
448737	Sibley St NE	800	WA	
448738	Sibley 8th Ave	800	MW	
448739	Sibley 8th Ave	800	MW	
448740	Sibley St NE	800	WA	
448741	Sibley St NE	800	WA	
457378	Lyndale Ave N	4501	WA	
457379	Lyndale Ave N	4501	WA	
457668	Marshall St	1414	WA	
457669	Marshall St	1414	WA	
457670	Marshall St	1414	WA	
457671	Marshall St	1414	WA	
457672	Marshall St	1414	WA	
457673	Marshall St	1414	WA	
457674	Marshall St	1414	WA	
461033	University NE	2424	WA	
462235	Washington Ave N	2322	MW	
462284	Washington Ave N	2322	WA	
462285	Washington Ave N	2322	WA	
462286	Washington Ave N	2322	WA	
465890	Washington Ave N	1226	WA	
465891	Washington Ave N	1226	WA	
465892	Washington Ave N	1226	WA	
468119	Washington Ave N	2322	WA	
468120	Washington Ave N	2322	WA	
472979	31 Ave N	30	WA	
472980	31 Ave N	30	WA	
472981	31 Ave N	30	WA	
472982	31 Ave N	30	WA	
478641	49 Ave N	2025	MW	
479016	1 Ave NE	101-05	WA	
479596	35 Ave NE	405	MW	
480662	5 St N	601	WA	
480663	5 St N	601	WA	
480664	5 St N	601	MW	
480665	5 St N	601	MW	
482695	35 Ave NE	405	MW	
483804	River St	515-27	MW	
483805	River St	515-27	MW	
483806	River St	515-27	MW	
492286	Washington Ave N	2322	MW	
498113	1 Ave NE	101-05	WA	
498114	1 Ave NE	101-05	WA	
498306	7 St N	401	WA	
498307	7 St N	401	WA	
498308	7 St N	401	WA	
498844	Washington Ave N	326	WA	
498845	Washington Ave N	326	WA	

Unique Well Number	STREET	SITE ADDRESS	TYPE	Property Owner
498846	Washington Ave N	326	WA	
501729	Washington Ave N	1608	WA	
501731	Washington Ave N	1608	WA	
501733	Washington Ave N	1608	WA	
506016	5 St N	601	MW	
506017	5 St N	601	MW	
507071	University NE	2424	WA	
507072	University NE	2424	WA	
507073	University NE	2424	WA	
508103	6 Ave N	505	WA	
508178	California St	2701	WA	
508278	California St	2701	WA	
508279	California St	2701	WA	
518559	Marshall St	2800	MW	
521256	Broadway W	626	WA	
521257	Broadway W	626	WA	
521258	Broadway W	626	WA	
521975	Lyndale Ave N	4401	MW	
521976	Lyndale Ave N	4401	MW	
521977	Lyndale Ave N	4401	MW	
523367	49 Ave N	2205	MW	
523434	44 Ave N	1126	WA	
523435	44 Ave N	1126	WA	
523436	44 Ave N	1126	WA	
523604	2 Ave N	725	MW	
523605	2 Ave N	725	MW	
523606	2 Ave N	725	MW	
525620	Marshall St	3600	WA	
525827	13th Ave NE	332	WA	
525828	13th Ave NE	332	WA	
525829	13th Ave NE	332	WA	
526371	44 Ave N	1126	WA	
530300	3 Ave NE	300-06	MW	
533318	Washington Ave N	701	MW	
533330	Washington Ave N	701	MW	
533350	Washington Ave N	701	MW	
533354	Washington Ave N	701	MW	
533607	Washington Ave N	2322	WA	
535600	Pacific St	2800	MW	
535601	Pacific St	2800	MW	
535602	Pacific St	2800	MW	
535603	Pacific St	2800	MW	
535604	Pacific St	2800	MW	
535885	35 Ave NE	405	MW	
537601	Washington Ave N	2306	MW	
537602	Washington Ave N	2306	MW	
537603	Washington Ave N	2306	MW	
540763	49 Ave N	2025	MW	
540764	49 Ave N	2025	MW	
541790	Lyndale Ave N	4401	MW	
541791	Lyndale Ave N	4401	MW	

Unique Well Number	STREET	SITE ADDRESS	TYPE	Property Owner
541792	Lyndale Ave N	4401	MW	
541793	Lyndale Ave N	4401	MW	
544172	2 St NE	1001	WA	
544173	2 St NE	1001	WA	
544174	2 St NE	1001	WA	
544175	2 St NE	1001	WA	
547713	Marshall St	1309	MW	
547756	5 St NE	2901	MW	
547757	5 St NE	2901	MW	
547758	5 St NE	2901	MW	
547759	5 St NE	2901	MW	
548030	Marshall St	3600	WA	
548031	Marshall St	3600	WA	
548032	Marshall St	3600	WA	
548191	49 Ave N	2025	MW	
548736	2 Ave N	1002	MW	
548737	2 Ave N	1002	MW	
548741	2 Ave N	1002	MW	
552123	11th Ave NE	60	MW	
552123	11th Ave NE	60	MW	
552124	11th Ave NE	60	MW	
552124	11th Ave NE	60	MW	
552125	11th Ave NE	60	MW	
552125	11th Ave NE	60	MW	
552298	18 Ave NE	2100	MW	
554324	2 Ave N	1002	MW	
554325	2 Ave N	1002	MW	
554326	2 Ave N	1002	MW	
554426	23 Ave	725	MW	
554427	23 Ave	725	MW	
554428	23 Ave	725	MW	
556022	Broadway W	626	WA	
557546	1 Ave N	311-15	MW	
558412	1 Ave N	2929	MW	
558413	1 Ave N	2929	MW	
558414	1 Ave N	2929	MW	
559578	5 St NE	2901	MW	
559579	5 St NE	2901	MW	
559580	5 St NE	2901	MW	
560546	37 Ave NE	1820	MW	
560547	37 Ave NE	1820	MW	
560548	37 Ave NE	1820	MW	
563374	2 St NE	1001	MW	
564037	Broadway W	626	WA	
564038	Broadway W	626	WA	
564039	Broadway W	626	WA	
565703	2 St NE	1712	WA	
565704	2 St NE	1712	WA	
565705	2 St NE	1712	WA	
565706	2 St NE	1712	WA	
565707	2 St NE	1712	WA	

Unique Well Number	STREET	SITE ADDRESS	TYPE	Property Owner
565747	5 St N	601	MW	
565748	5 St N	600	MW	
568117	Washington Ave N	500	MW	
568118	Washington Ave N	500	MW	
568119	Washington Ave N	500	MW	
568813	West River Road N	1717	MW	
568814	West River Road N	1717	MW	
568815	West River Road N	1717	MW	
568816	West River Road N	1717	MW	
568817	West River Road N	1717	MW	
569718	River Pkwy W	1301	MW	
569719	River Pkwy W	1301	MW	
569720	River Pkwy W	1301	MW	
569721	River Pkwy W	1301	MW	
570395	University NE	3005	MW	
570396	University NE	3005	MW	
570397	University NE	3005	MW	
570398	University NE	3005	MW	
570399	University NE	3005	MW	
570400	University NE	3005	MW	
570401	30 Ave NE	632	MW	
570402	30 Ave NE	632	MW	
574404	River Pkwy W	3900	MW	
574405	River Pkwy W	3900	MW	
574406	River Pkwy W	3900	MW	
575344	30 Ave NE	500	MW	
575345	30 Ave NE	500	MW	
575346	30 Ave NE	500	MW	
575347	30 Ave NE	500	MW	
575348	30 Ave NE	500	MW	
576220	37 Ave NE	1820	MW	
576962	1 St N	428	MW	
576963	1 St N	428	WA	
576964	1 St N	428	WA	
577635	Marshall St NE	3356	MW	
577636	Marshall St NE	3356	MW	
578933	River Pkwy W	2000	MW	
581391	Marshall Ave SE	2301	MW	
581392	Marshall Ave SE	2301	MW	
581393	Marshall Ave SE	2301	MW	
581394	Marshall Ave SE	2301	MW	
581395	Marshall Ave SE	2301	MW	
583050	19 Ave NE	2600	MW	
589202	19 Ave NE	2600	MW	
589203	19 Ave NE	2600	MW	
589248	5 St NE	2901	MW	
589249	5 St NE	2901	MW	
589250	5 St NE	2901	MW	
591614	Marshall St	3501	MW	
591615	Marshall St	3501	MW	
591616	Marshall St	3501	MW	

Unique Well Number	STREET	SITE ADDRESS	TYPE	Property Owner
594047	5 St N	616-700	MW	
594048	5 St N	616-700	MW	
594049	5 St N	616-700	MW	
594050	5 St N	616-700	MW	
595731	5 St NE	3300	MW	
595732	5 St NE	3300	MW	
595733	5 St NE	3300	MW	
598201	5 St N	616-700	MW	
598202	5 St N	616-700	MW	
599512	30 Ave NE	500	MW	
603265	1 St N	428	MW	
603266	1 St N	428	MW	
603267	1 St N	428	MW	
606764	1 St N	428	MW	
606765	1 St N	428	MW	
606766	1 St N	428	MW	
H100294	5 St & Malcolm Ave		WA	
H 109820	Washington Ave N	2418-2580	WA	
H109821	Washington Ave N	2418-2580	WA	
H109822	Washington Ave N	2418-2580	WA	
H109823	Washington Ave N	2418-2580	WA	
H 109824	Washington Ave N	2418-2580	WA	
H109825	Washington Ave N	2418-2580	WA	
H109844	Washington Ave N	2418-2580	WA	
H112552	37 Ave NE	50	WA	
H112553	37 Ave NE	50	WA	
H112554	37 Ave NE	50	WA	
H129733	Colfax Ave N	3963	MW	
H129867	Sibley 8th Ave	800	MW	
H129871	Sibley 8th Ave	800	MW	
H43923	Sibley St NE	800	WA	
H43942	2 St NE	13-17H	WA	
H47600	Marshall St	1414	WA	
H47617	49 Ave N	2025	WA	
H70968	Lyndale Ave N	4501	WA	

Notes:

- MGS older well records from Minnesota Geological Survey
- MW newer City of Minneapolis well record
- WA newer well that was installed & later sealed