



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor  
George E. Meyer, Secretary  
William R. Selbig, Regional Director

Remediation and Redevelopment Program  
1125 North Military Avenue  
P.O. Box 10448  
Green Bay, Wisconsin 54307-0448  
Telephone 920-492-5916  
FAX 920-492-5859  
TDD 920-492-5812

June 22, 1998

Davison Associates, Inc.  
Attn: Mike Davis  
O.M. Construction  
1610 Cornell Road  
Green Bay, WI 54313

SUBJECT: Northstar Oil Company (Former), 2722 North Richmond Avenue, Appleton, WI  
WDNR LUST CASE#03-45-001640

Dear Mr. Davis:

On November 17, 1993, the Wisconsin Department of Natural Resources provided a notice to you that the degree and extent of the petroleum contamination at the above-named site was required to be investigated and remediated. We have since been informed that the required investigation and remediation has been accomplished.

On November 3, 1997, the above-named site was reviewed by the Northeast Region Closure Committee for a determination as to whether or not the case qualified for closeout under ch. NR 726, Wis. Adm. Code.

The Department has received a copy of the completed Groundwater Use Restriction for the Northstar Oil Company (Former) site and proof of filing this record with the Outagamie County Register of Deeds. Based on the investigative and remedial documentation provided to the Department, it appears that the petroleum contamination at the above-named site has been remediated to the extent practicable under current site conditions. Therefore, closure of this site has been granted and no further action is necessary at this time. In the future, this groundwater use restriction may be amended with approval from the Department if conditions change at the site and the residual contamination has been remediated.

The Department's records will reflect final "closure." If you have any questions regarding this determination, please contact me in Green Bay at (920) 492-5943.

Sincerely,

Kristin Nell  
Hydrogeologist  
Remediation and Redevelopment Program

cc: William Lewis, c/o PDQ Manufacturing Company  
1028 Main Street, Green Bay, WI 54305  
Steven Guyot, Fluid Management, Inc  
2831 North Grandview Boulevard, P.O. Box 90, Pewaukee, WI 53072-0090



Quality Natural Resources Management  
Through Excellent Customer Service



# WARRANTY DEED

Document Number

THIS DEED, made between WILLIAM G. LEWIS, A married person, Grantor, and DAVSON ASSOCIATES, INC., a Wisconsin Corporation, Grantee.

WITNESSETH, That the said Grantor, for a valuable consideration conveys to Grantee the following described real estate in OUTAGAMIE County, State of Wisconsin:

Part of Lot One (1) of Outagamie County Certified Survey Map No. 1926 as recorded in Volume 10 of Certified Survey Maps on Page 1926, as Document No. 1125811, being a part of the Northwest 1/4 of the Northwest 1/4 of Section Twenty-three (23), Township 21 North, Range 17 East, City of Appleton, Outagamie County, Wisconsin, containing 32,613 square feet of land, more or less, and being described as follows:

Commencing at the Northwest corner of said Section 23; thence North 88° 39' 30" East, along the North line of the Northwest 1/4 of said Section 23, 716.63 feet; thence South 01° 29' 00" East, 95.00 feet to a point on the South line of Northland Avenue (C.T.H. "OO"); thence South 88° 39' 30" West, along the South line of Northland Avenue (C.T.H. "OO"), 398.50 feet to the Northeast corner of said Lot One (1) of Outagamie County Certified Survey Map No. 1926 and the true point of beginning; thence South 01° 29' 00" East, along the East line of said Lot One (1) 20.00 feet, thence North 88° 31' 00" East, along the East line of said Lot 1, 6.00 feet; thence South 01° 29' 00" East along the East line of said Lot 1, 279.99 feet to the Southeast corner of said Lot 1; thence South 89° 26' 23" West, along the South line of said Lot 1, 100.00 feet; thence North 01° 29' 00" West 158.33 feet; thence South 88° 31' 00" West 20.01 feet; thence North 01° 29' 00" West 140.33 feet to a point on the South line of Northland Avenue (C.T.H. "OO"); thence North 88° 39' 30" East, along the South line of Northland Avenue (C.T.H. "OO") 114.00 feet to the true point of beginning, together with and subject to all easements and restrictions of record;

Recording Area  
RETURN TO:

PARCEL NUMBER: 31-6-7703

This is not homestead property.

Together with all and singular the hereditaments and appurtenances thereunto belonging;

And WILLIAM G. LEWIS warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except easements, restrictions and reservations of record, municipal and zoning ordinances and will warrant and defend the same.

Dated this 22ND day of OCTOBER, 1997.

(SEAL)

(SEAL)

WILLIAM G. LEWIS

### AUTHENTICATION

Signature (s) William G. Lewis  
authenticated this 22nd day of October, 1997

### ACKNOWLEDGMENT

STATE OF WISCONSIN }  
BROWN COUNTY }

Personally came before me this \_\_\_\_\_ day of \_\_\_\_\_, 1997, the above named WILLIAM G. LEWIS, a married person, to me known to be the person who executed the foregoing instrument and acknowledged the same.

ILLU: MEMBER STATE BAR OF WISCONSIN

(If not authorized by § 706.06, Wis. Stats)

THIS INSTRUMENT DRAFTED BY

WILLIAMS WOODWARD, ATTORNEY AT LAW

Notary Public BROWN County, Wis.  
My Commission is permanent. (If not, state expiration date. \_\_\_\_\_)

(Signatures may be authenticated or acknowledged. Both are not necessary.)

\*Names of persons signing in any capacity should be typed or printed below their signatures.



WHEREAS, one or more petroleum discharges have occurred at this property. 1,2,-Dichloroethane (DCE) contaminated groundwater above ch. NR 140 enforcement standards (ES) exists on this property at the following location(s): At the former location of groundwater monitoring wells MW-3, and MW-6 (please see attached map for specific locations). Concentrations of 1,2-DCA were detected at 6.6 parts per billion (ppb) in monitoring well MW-3 and 8.6 ppb in MW-6, both of which are in exceedance of the ch. NR 140 ES of 5.0 ppb for 1,2-DCA.

WHEREAS, it is the desire and intention of the property owner to impose on the property restrictions which will make it unnecessary to conduct additional soil or groundwater remediation activities on the property at the present time.

WHEREAS, natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR 140 groundwater standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality exceeds the drinking water standards in ch. NR 809 is restricted by ch. NR 811 and ch. NR 812. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific prohibitions or requirements are applicable and to obtain DNR approval, prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase or otherwise. This restriction benefits and is enforceable by, the Wisconsin Department of Natural Resources, its successors and assigns. The Department, its successors or assigns, may initiate proceedings at law or equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that the restrictions set forth in this covenant are no longer required. Upon receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit can be recorded to give notice that this groundwater use restriction is no longer binding.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 8th day of May, 1998.

Signature: Michael Davis

Printed Name: Michael Davis

Subscribed and sworn to before me  
this 8th day of May, 1998.

Sharon A Van Graten  
Notary Public, State of Wisconsin  
My commission 10-17-99

This document was drafted by the Wisconsin Department of Natural Resources.

# SITE MAP

PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 23, TOWNSHIP 21 NORTH, RANGE 17 EAST, IN THE CITY OF APPLETON, OUTAGAMIE COUNTY, STATE OF WISCONSIN.

NORTHLAND AVE. (C.T.H. "00")

RICHMOND AVE. (S.T.H. "47")

PARCEL 1

PARCEL 2

RELATIVE STATION:  
FOUND IRON PIPE  
N 5002.09  
E 5089.13  
LAT 44°17'15"  
LONG 88°24'55"

MW-3  
EL 828.08

MW-6  
EL 827.47

MW - 3 N 4908.60  
E 5120.25  
TC 827.84  
EL 828.08

MW - 6 N 4842.85  
E 5137.67  
TC 828.85  
EL 827.47



PARCEL # 2  
NORTHLAND AVE (C.T.H. "00"), APPLETON, WI

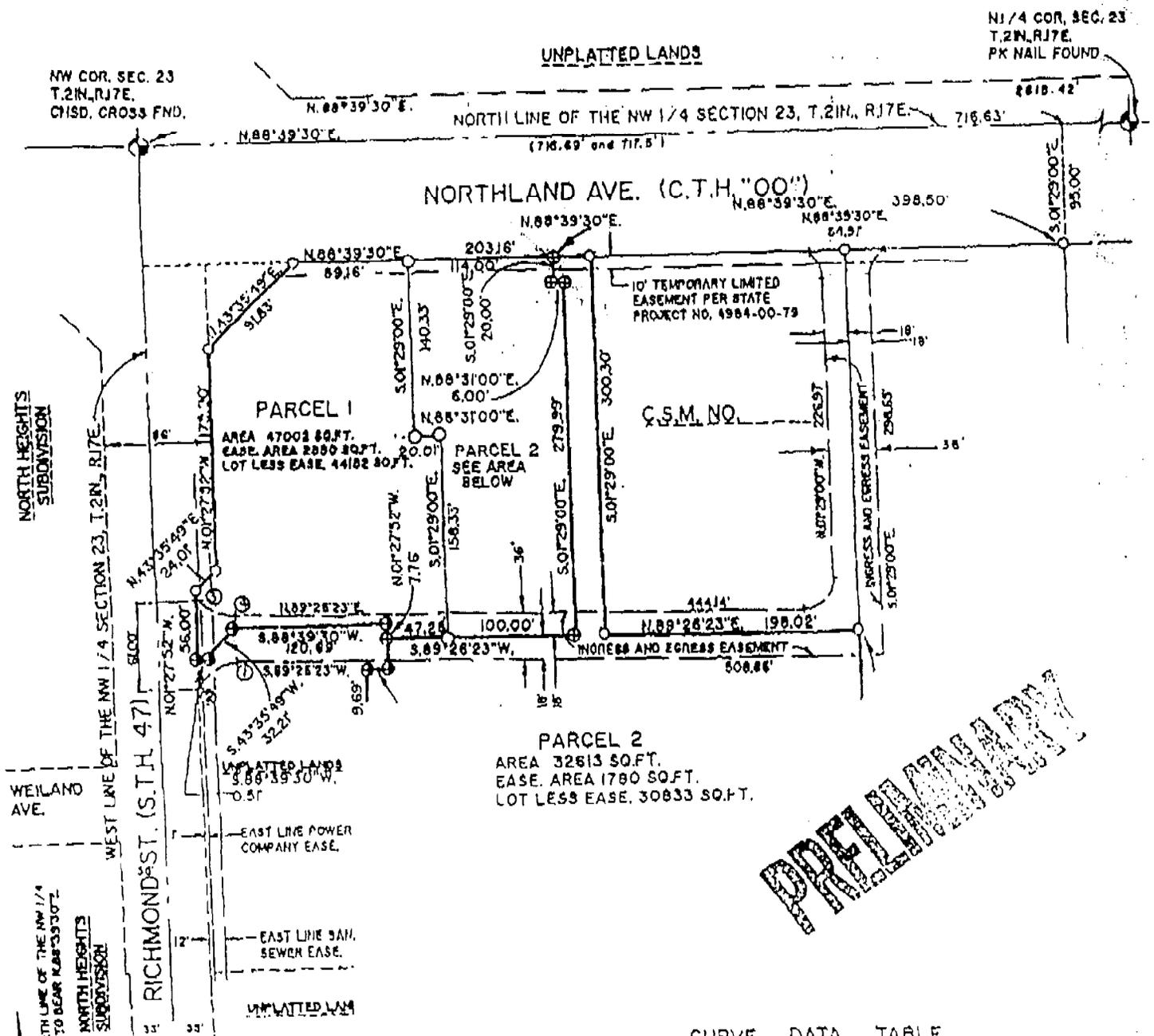
	LAND INFORMATION SERVICES, INC. ENGINEERS, SURVEYORS & CONSULTANTS 201 EAST JOHNSON STREET MILWAUKEE, WISCONSIN 53202	1. UNDERGROUND SEWER AND UTILITY INFORMATION IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO. 2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. 3. HORIZONTAL DATUM IS BASED ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM, ZONE 17N AND ALL BEARINGS REFERENCED TO GRID NORTH. 4. VERTICAL DATUM IS BASED AT MEAN SEA LEVEL. SEE ADJUSTMENT.
	TEST BORING (TB)	DRAWN/CHKD: CLH/MLW LIS JOB NO: 94-1088-02

# PLAT OF SURVEY

ALL OF LOT ONE (1) OF CERTIFIED SURVEY MAP NO. 1926 BEING PART OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION TWENTY-THREE (23), TOWNSHIP 21 NORTH, RANGE 17 EAST, CITY OF APPLETON, OUTAGAMIE COUNTY, WISCONSIN.

PREPARED BY:  
**SCHULER and ASSOCIATES**  
 2711 N. MASON ST. Suite F  
 APPLETON, WI 54914

PREPARED FOR:  
**MEERDINK and ASSOCIATES**  
 4351 W. COLLEGE AVE.  
 APPLETON, WI



**PATENT PENDING**

CURVE DATA TABLE

1-2	30.00'	S,65°24'43"W,	24.13'	48°03'39"	2517'
3-4	30.00'	S,60°30'23"E,	30.05'	60°06'29"	3147'

— LEGEND —

- ⊕ = 3/4" DIA. ROUND x 24" LONG STEEL REBAR WEIGHING 1.5 LBS./LINEAL FOOT SET
- = 3/4" DIA. ROUND STEEL REBAR FOUND
- = 1" DIA. IRON PIPE FOUND
- ( ) = RECORDED AS
- ⊙ = PK MASONRY NAIL FOUND

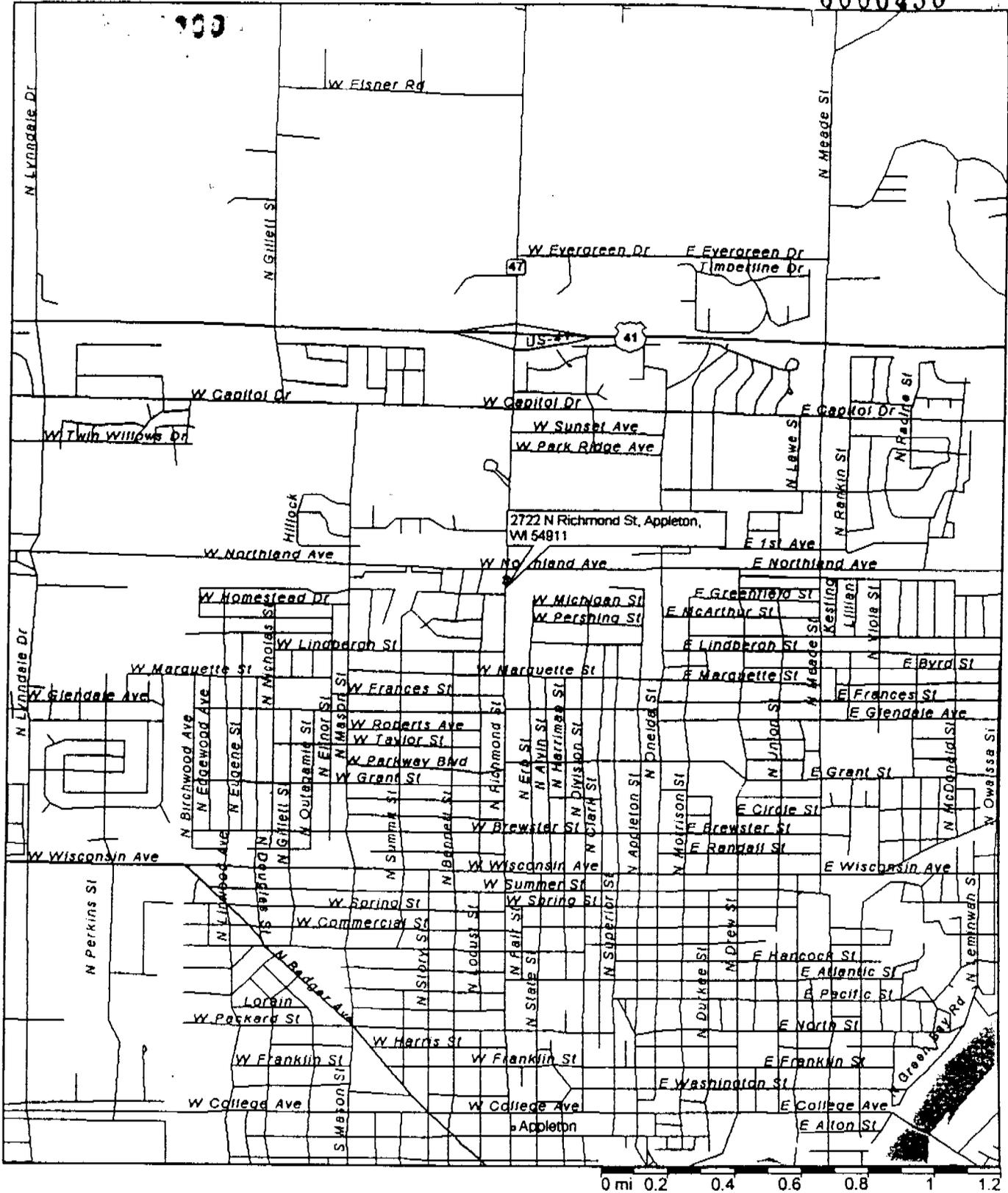
SCALE IN FEET



DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 1994

WISCONSIN REGISTERED LAND SURVEYOR 9-2123  
 MICHAEL J. FRANK

L-95-2338  
 SHEET 1 OF 2



# Streets Plus

Former Northstar Oil Site

**TANK LEGEND**

- ① FORMER 8,000-GALLON RAIL CAR UST
- ② FORMER 1,000-GALLON GASOLINE UST
- ③ FORMER 500-GALLON GASOLINE UST
- ④ FORMER 5,000-GALLON GASOLINE UST
- ⑤ FORMER 12,000-GALLON GASOLINE UST
- ⑥ FORMER 12,000-GALLON GASOLINE UST
- ⑦ FORMER 12,000-GALLON WASTE OIL UST
- ⑧ FORMER 750-GALLON FUEL OIL AST
- ⑨ FORMER 500-GALLON KEROSENE UST  
(DISCOVERED DURING SOURCE REMOVAL 2/27/95)

**LEGEND**

- ⊕ MONITORING WELL
- ⊙ TEST BORING

0000440

APPROVED BY: SKG

CHECKED BY: SKG

7/7/97

DRAWN BY: JPH

93.861V1

DRAWING NO.

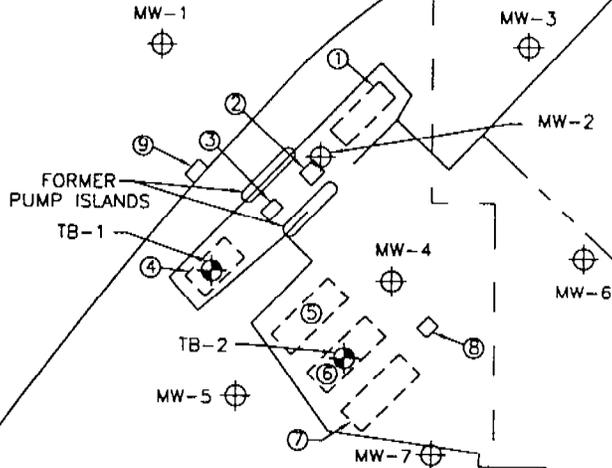
RICHMOND AVE. (STH "47")

NORTHLAND AVE. (CTH "00")

CONCRETE CURB

CONCRETE CURB

PROPERTY BOUNDARY



NOTE: COMPOSITE DRAWING MADE FROM FIGURES 2.2 AND 3.1 OF FMI'S SIR/RAP - 1994.



**Original Site Plan View  
Northstar Oil Company  
(Former) Site  
Appleton, Wisconsin**

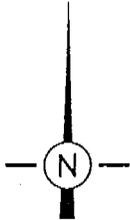


FIGURE NO.  
**1**

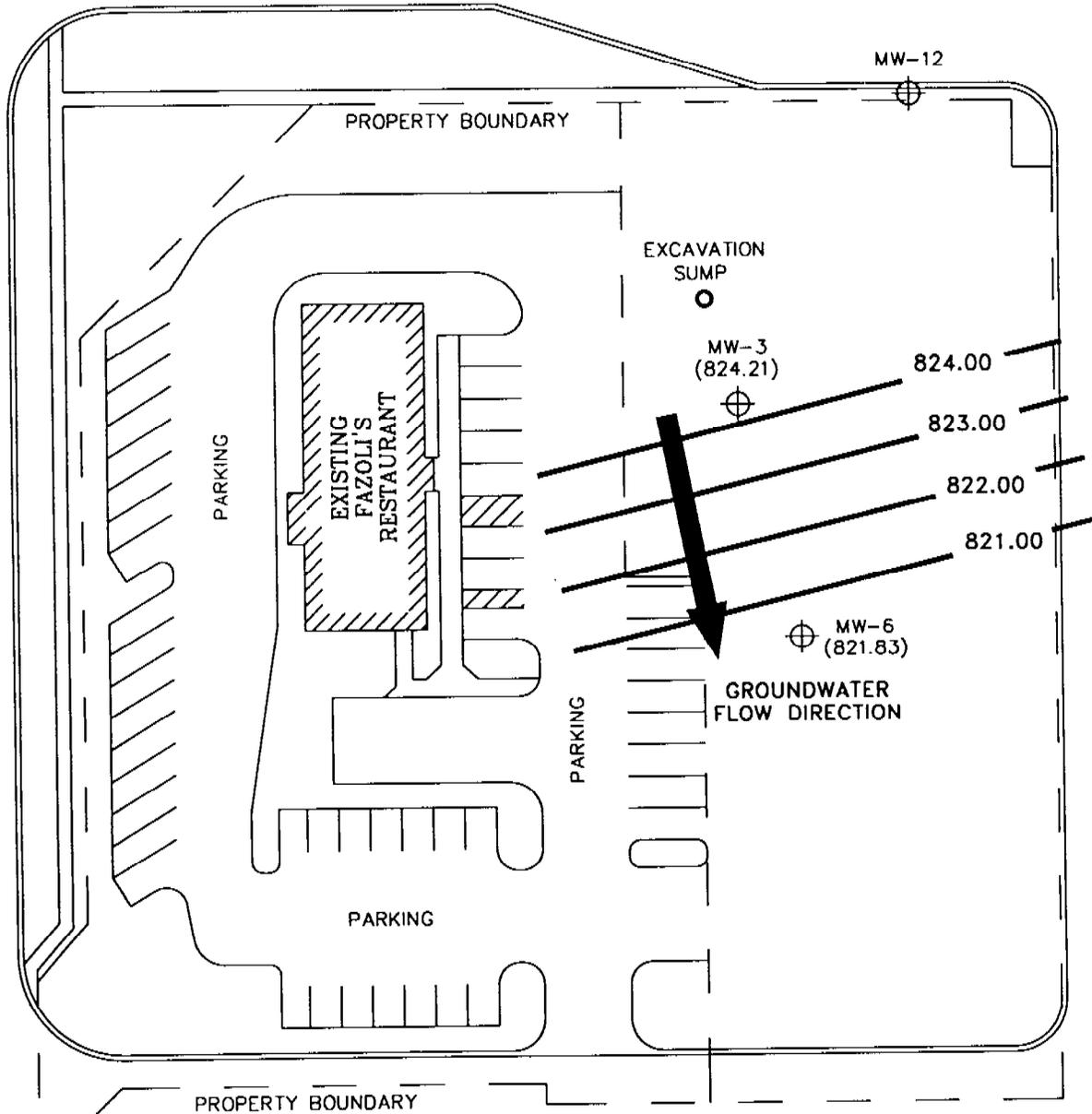
THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

0000516

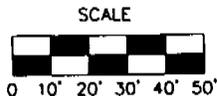
LEGEND

- ⊕ MONITORING WELL
- ( ) GROUNDWATER ELEVATION IN FEET ABOVE MSL
- EQUIPOTENTIAL CONTOUR

824.00



NOTE: MW-12 AND EXCAVATION SUMP WERE INCLUDED IN POSTREMEDIAL ACTIVITY, THEREFORE, THEY WERE NOT SURVEYED. AS A RESULT, ONLY TWO WELLS WERE AVAILABLE FOR CALCULATING THE CONTOUR LINES AND GROUNDWATER FLOW DIRECTION.



**Potentiometric Surface  
(8/8/97)  
Northstar Oil Company  
(Former) Site  
Appleton, Wisconsin**

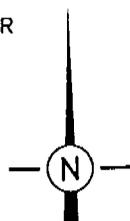


FIGURE NO.

**1**

APPROVED BY: SKG

CHECKED BY: SKG

8/12/97

KMA

DRAWN BY:

93.861.9

DRAWING NO.

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

0000442

APPROVED BY: SKG

CHECKED BY: SKG

7/7/97

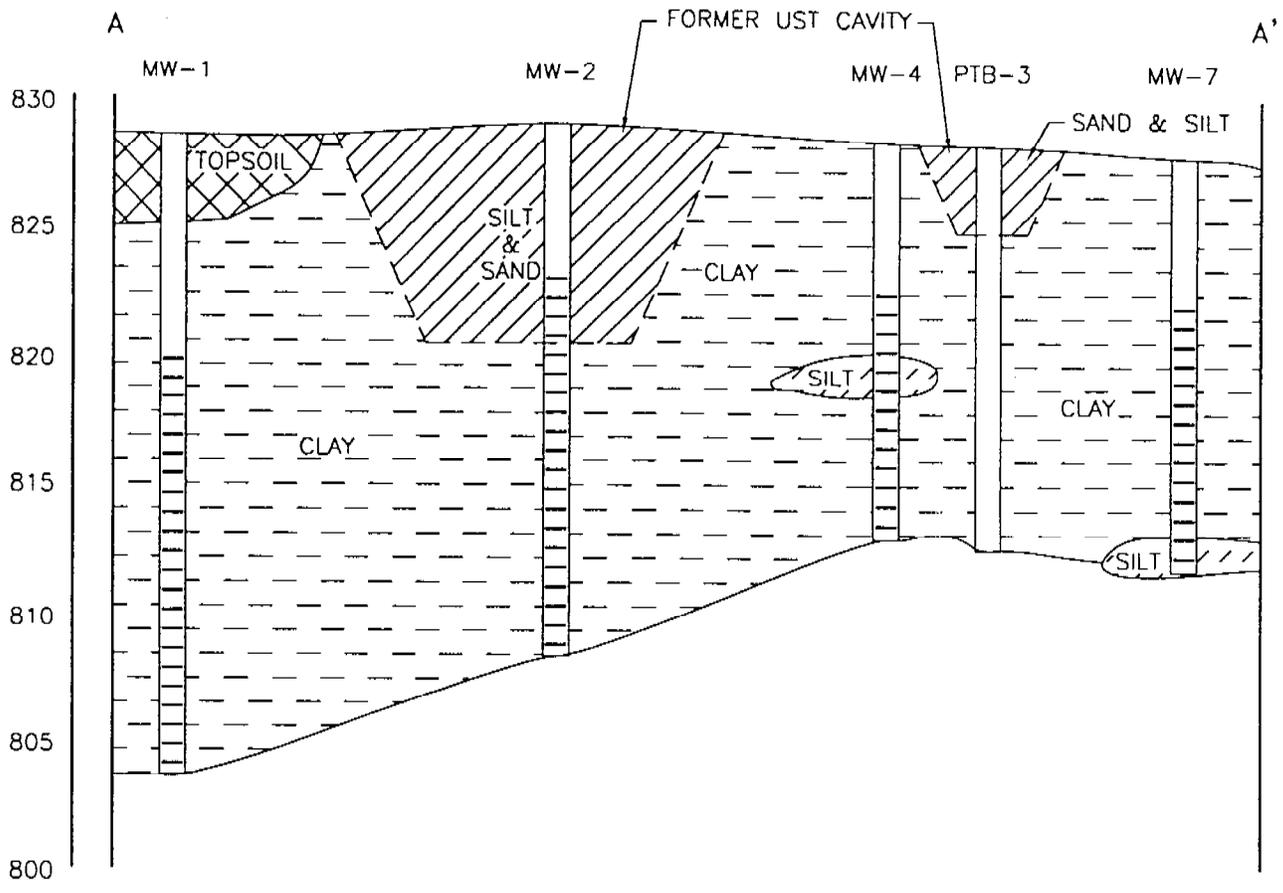
KMA

DRAWN BY:

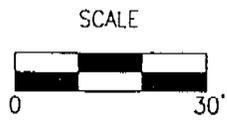
93.861V3

DRAWING NO.

ELEVATION IN FEET ABOVE MSL



**Fluid Management**  
 A Division of  ENVIROGEN, Inc.



**Geologic Cross-Section A-A'**  
**Northstar Oil Company**  
**(Former) Site**  
**Appleton, Wisconsin**

FIGURE NO.  
**3**

THE INTERPRETATIONS IN THIS FIGURE ARE BASED ON KNOWN POINTS IN TIME AND SPACE AND ARE INTEGRAL TO A WRITTEN REPORT AND SHOULD BE REVIEWED IN THAT CONTEXT.

TABLE 1

**Historical Groundwater Analytical Results  
Northstar Oil Company (Former) Site  
Appleton, Wisconsin**

Parameter	MW-1					MW-2			RMW-2*		NR 140 ES	NR 140 PAL
	3/9/94	9/1/94	4/28/95	10/18/95	3/9/94	9/1/94	7/29/95	10/18/95				
	Benzene	<1.0	<1.0	<1.0	<1.0	11,000	6,700	<1.0	<0.5	5		
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	1,900	1,400	<1.0	<1.0	700	140		
Toluene	<1.0	<1.0	<1.0	<1.0	18,000	10,000	3.0	<1.0	343	68.6		
1,2,4-TMB	<1.0	<1.0	<1.0	<1.0	1,300	1,100	<1.0	<1.0	NS	NS		
1,3,5-TMB	<1.0	<1.0	<1.0	<1.0	480	280	<1.0	<1.0	NS	NS		
MTBE	<1.0	<1.0	<1.0	<1.0	<100	<10	<1.0	<1.0	60	12		
Total Xylenes	<3.0	<3.0	<3.0	<3.0	10,000	6,200	<3.0	<3.0	620	124		
1,2-DCA	<1.0	NA	<1.0	<1.0	1,000	NA	<1.0	<1.0	5	0.5		

(Continued)

Notes:  
 All results in ppb  
 \*RMW-2 is a temporary replacement monitoring well, reinstalled at the location of MW-2 after its abandonment during the source removal  
 Shading indicates value equals or exceeds the NR 140 enforcement standard

TMB: Trimethylbenzene  
 MTBE: Methyl t-butyl ether  
 NA: Not analyzed  
 DCA: Dichloroethane  
 NS: No standard

Checked by: SEK  
 Approved by: SEK

0000454

TABLE 1  
(Continued)

Historical Groundwater Analytical Results  
Northstar Oil Company (Former) Site  
Appleton, Wisconsin

Parameter	MW-3										NR 140 ES	NR 140 PAL	
	3/9/94	9/1/94	4/28/95	6/14/95	10/18/95	4/14/96	6/6/96	7/17/96	2/25/97	5/16/97			
Benzene	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.31	<0.21	5	0.5
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	XXX	49	18	<0.38	<0.68	700	140	
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	13	1.1	<1.0	<0.39	<1.5	343	68.6	
1,2,4-TMB	<1.0	<1.0	<1.0	<1.0	<1.0	9.0	1.7	<1.0	<0.32	<1.0	NS	NS	
1,3,5-TMB	<1.0	<1.0	<1.0	<1.0	<1.0	6.1	<1.0	<1.0	<0.33	<0.86	NS	NS	
MTBE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.14	<0.21	60	12	
Total Xylenes	<3.0	<3.0	<3.0	<3.0	<3.0	1,000	XXX	37	<1.1	<1.8	620	124	
1,2-DCA	17	NA	17	30	21	46	26	28	15	6.6	5	0.5	

(Continued)

Notes:

All results in ppb

- XXX Shading indicates value equals or exceeds the NR 140 enforcement standard
- XXX Cross hatching indicates value equals or exceeds the NR 140 preventive action limit

TMB: Trimethylbenzene  
 MTBE: Methyl t-butyl ether  
 NA: Not analyzed  
 DCA: Dichloroethane  
 NS: No standard

Checked by: SKG  
 Approved by: SKG

0000455

TABLE 1  
(Continued)

Historical Groundwater Analytical Results  
Northstar Oil Company (Former) Site  
Appleton, Wisconsin

Parameter	MW-4		RMW-4*		MW-5		RMW-5*		NR 140 ES	NR 140 PAL
	3/9/94	9/1/94	7/29/95	10/18/95	3/9/94	9/1/94	7/29/95	10/18/95		
Benzene	6.3	320	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	5	0.5
Ethylbenzene	1.2	15	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	700	140
Toluene	2.9	4.6	1.3	<1.0	<1.0	<1.0	1.7	<1.0	343	68.6
1,2,4-TMB	6.6	1.5	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	NS	NS
1,3,5-TMB	6.5	4.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NS	NS
MTBE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	60	12
Total Xylenes	12.0	12.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	620	124
1,2-DCA	53	NA	<1.0	<1.0	<1.0	<1.0	<1.0	XXXXXX	5	0.5

(Continued)

Notes:

All results in ppb

\*RMW-4 and RMW-5 are temporary replacement monitoring wells, reinstalled at the location of MW-4 and MW-5, respectively, after their abandonment during the source removal



Shading indicates value equals or exceeds the NR 140 enforcement standard

Cross hatching indicates value equals or exceeds the NR 140 preventive action limit

TMB: Trimethylbenzene

MTBE: Methyl t-butyl ether

NA: Not analyzed

DCA: Dichloroethane

NS: No standard

Checked by: SKG

Approved by: SKG

0000457

TABLE 1  
(Continued)

Historical Groundwater Analytical Results  
Northstar Oil Company (Former) Site  
Appleton, Wisconsin

Parameter	MW-6										NR 140 ES	NR 140 PAL
	3/9/94	9/1/94	4/28/95	10/18/95	2/20/96	4/14/96	2/25/97	5/16/97				
Benzene	<1.0		<1.0	<0.50	<0.50	<0.50	<0.31	<0.21			5	0.5
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.38	<0.68			700	140
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.39	<1.5			343	68.6
1,2,4-TMB	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.32	<1.0			NS	NS
1,3,5-TMB	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.33	<0.86			NS	NS
MTBE	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.14	<0.21			60	12
Total Xylenes	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<1.1	<1.8			620	124
1,2-DCA	<1.0	NA	<1.0	<1.0	6.2			8.6			5	0.5

(Continued)

Notes:

All results in ppb

Shading indicates value equals or exceeds the NR 140 enforcement standard  
 Cross hatching indicates value equals or exceeds the NR 140 preventive action limit

- TMB: Trimethylbenzene
- MTBE: Methyl t-butyl ether
- NA: Not analyzed
- DCA: Dichloroethane
- NS: No standard

Checked by: SEG  
 Approved by: SEG

0000458

TABLE I  
(Continued)

Historical Groundwater Analytical Results  
Northstar Oil Company (Former) Site  
Appleton, Wisconsin

Parameter	MW-7 (abandoned during property development in November 1995)				Sump (Constructed during soil removal in October 1995)						NR 140 ES	NR 140 PAL
	3/9/94	9/1/94	4/28/95	10/18/95	4/28/95	11/7/95	2/20/96	4/9/96	2/24/97	5/16/97		
Benzene	<1.0	<1.0	<1.0	<0.50	NI	<del>2.1</del>	<0.50	<0.50	<0.31	<0.21	5	0.5
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<0.38	<0.68	<0.68	700	140
Toluene	<1.0	<1.0	<1.0	<1.0	NI	2.1	<1.0	<0.39	<1.5	<1.5	343	68.6
1,2,4-TMB	<1.0	<1.0	<1.0	<1.0	NI	<1.1	<1.0	<0.32	<1.0	<1.0	NS	NS
1,3,5-TMB	<1.0	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<0.33	<0.86	<0.86	NS	NS
MTBE	<1.0	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<0.14	<0.21	<0.21	60	12
Total Xylenes	<3.0	<3.0	<3.0	<3.0	NI	<3.0	<3.0	<1.1	<1.8	<1.8	620	124
1,2-DCA	<1.0	NA	<1.0	<1.0	NI	<del>2.1</del>	<1.0	<1.0	<del>2.1</del>	<del>2.1</del>	5	0.5

(Continued)

Notes:

All results in ppb



Cross hatching indicates value equals or exceeds the NR 140 preventive action limit

- TMB: Trimethylbenzene
- MTBE: Methyl t-butyl ether
- NA: Not analyzed
- DCA: Dichloroethane
- NS: No standard
- NI: Not installed

Checked by: SKG

Approved by: SKG

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TABLE I  
(Continued)

Historical Groundwater Analytical Results  
Northstar Oil Company (Former) Site  
Appleton, Wisconsin

Parameter	MW-11 (abandoned fall 1996)					MW-12					NR 140 ES	NR 140 PAL
	4/28/95	10/18/95	2/20/96	4/14/96	4/28/95	10/18/95	2/20/96	4/14/96	2/19/97	5/16/97		
Benzene	NI	<0.50	<0.50	<0.50	NI	<0.50	<0.50	<0.50	<0.31	<0.21	5	0.5
Ethylbenzene	NI	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<1.0	<0.38	<0.68	700	140
Toluene	NI	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<1.0	<0.39	<1.5	343	68.6
1,2,4-TMB	NI	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<1.0	<0.32	<1.0	NS	NS
1,3,5-TMB	NI	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<1.0	<0.33	<0.86	NS	NS
MTBE	NI	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<1.0	<0.14	<0.21	60	12
Total Xylenes	NI	<3.0	<3.0	<3.0	NI	<3.0	<3.0	<3.0	<1.1	<1.8	620	124
1,2-DCA	NI	<1.0	<1.0	<1.0	NI	<1.0	<1.0	<1.0	<0.20	<0.14	5	0.5

Notes:

- All results in ppb.
- TMB: Trimethylbenzene
- MTBE: Methyl t-butyl ether
- NA: Not analyzed
- DCA: Dichloroethane
- NS: No standard
- NI: Not installed

Checked by: SKG  
Approved by: SKG

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