GIS REGISTRY INFORMATION

SITE NAME: SuperAmerica #4090

BRRTS #: 03-13-001981

CLOSURE DATE: 02-May-03

STREET ADDRESS: 1101 Sherman Avenue

CITY: Madison

MEDIA AFFECTED: **Groundwater:** X **Soil:** X **Both:** X

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): **X=** 571791 **Y=** 293412

OFF-SOURCE CONTAMINATION (>ES): ☐ **Yes** ☒ **No**

CONTAMINATION IN RIGHT OF WAY: ☒ **Yes** ☐ **No**

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter issued	X
Copy of most recent deed, including legal description, for all affected properties	X
Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties	X
County Parcel ID number, *if used for county*, for all affected properties	X
Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.	X
Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or site-specific residual contaminant levels.	X
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)	X
Tables of Latest Soil Analytical Results (no shading or cross-hatching)	X
Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**	X
GW: Table of water level elevations, with sampling dates, and free product noted if present	X
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)	X

SOIL: Latest horizontal extent of contamination exceeding generic or site-specific RCLs, with one contour.	
Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy)	X
RP certified statement that legal descriptions are complete and accurate	X
Copies of off-source notification letters (if applicable)	
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)	X
Copy of (soil or land use) deed restriction(s) or deed notice *if any required as a condition of closure.*	

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5397
Telephone 608-275-3266
FAX 608-275-3338
TTY 608-275-3231

May 2, 2003

File Ref: 03-13-001981

Mr Keith Hughes
Speedway SuperAmerica LLC
PO Box 1500
Springfield Ohio 45501

Subject: Case Closure, SuperAmerica Store # 4090, 1101 North Sherman Avenue, Madison

Dear Mr. Hughes:

On January 15, 2002, the South Central Region Closure Committee reviewed your request for closure of the case described above. The SCR Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. On January 30, 2002, you were notified that the Closure Committee had granted conditional closure to this case.

On April 17, 2003, the Department received correspondence indicating that you have complied with the conditions of closure. Well abandonment forms for the monitoring wells, sparge points and soil vapor wells were received. The packet and fees for the GIS registry were received. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wisconsin Administrative Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

NOTICE OF RESIDUAL SOIL CONTAMINATION

Residual soil contamination remains at the area of the pump island as indicated in the information submitted to the Department of Natural Resources. If soil in this location is excavated in the future, the property owner at that time will be required to sample and analyze the excavated soil in order to determine whether the contamination still remains. The owner will also have to properly store, treat, or dispose of any excavated materials, based upon the results of that characterization, and take special precautions during excavation activities to prevent a direct contact threat to humans. The purpose of the notice is to notify all future owners that excavation of the contaminated soil may pose an inhalation or other direct contact hazard at the time of excavation.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm

If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (608) 275-3297.

Sincerely,

Wendell Wojner
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Aimee Hennings, Sigma Environmental Services, Inc. 220 East Ryan Road, Oak Creek, WI 53154-4533

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5397
Telephone 608-275-3266
FAX 608-275-3338
TTY 608-275-3231

January 30, 2002

File Ref: 03-13-001981

Mr Keith Hughes
Speedway SuperAmerica LLC
PO Box 1500
Springfield Ohio 45501

Subject: Conditional Case Closure, SuperAmerica Store # 4090, 1101 North Sherman Avenue, Madison

Dear Mr. Hughes:

On January 15, 2002, the South Central Region Closure Committee reviewed your request for closure of the case described above. The SCR Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the SCR Closure Committee has determined that the petroleum contamination on the site from the operation of the fuel distribution system appears to have been investigated and remediated to the extent practicable under site conditions. Your case will be closed under s. NR 726.05, Wisconsin Administrative Code, if the following conditions are satisfied:

MONITORING WELL ABANDONMENT

The monitoring wells, soil vapor extraction system wells, and air sparging wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm.. Documentation of well abandonment must be submitted to me on Form 3300-5B found at www.dnr.state.wi.us/org/water/dgw/gw/ or provided by the Department of Natural Resources.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm

NOTICE OF RESIDUAL SOIL CONTAMINATION

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RIGHT-OF-WAY SOIL AND/OR GROUNDWATER CONTAMINATION

There is the possibility that residual soil and/or groundwater contamination exists in a public street or highway right-of-way. You should provide written notification of the presence of

residual soil and/or groundwater contamination to the clerk of the town and county or municipality where the right-of-way is located and to the municipal department or state agency that maintains the right-of-way. Please provide me with a copy of the written notification.

CHLORINATED HYDROCARBON CONTAMINATION

The committee reviewed the file information for the Off Site Exemption Request. Based on the information provided, the committee agreed that the source of the chlorinated contamination to the groundwater seemed to be from a location other than the SuperAmerica site. Groundwater flow was stated to be consistently in a northerly direction. Analytical results of samples of the groundwater demonstrated that the higher concentrations of chlorinated compounds in the groundwater were at the southern perimeter area of the site. Therefore, no additional work is required at this time for the investigation or remediation of the chlorinated compound contamination of the groundwater.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed.

State Statute 101.143 requires that PECFA claimants seeking reimbursement of interest costs, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at (608) 275-3297.

Sincerely,

Wendell Wojner
Hydrogeologist
Bureau for Remediation & Redevelopment

cc: Jodi VanderVelden, Sigma Environmental Services, Inc. 220 East Ryan Road, Oak Creek, WI 53154-4533

UNOFFICIAL COPY

DANE COUNTY
REGISTER OF DEEDS

DOCUMENT #
3424559

01/04/2002 02:04:16PM

Trans. Fee:
Exempt #: 11

Rec. Fee: 11.00
Pages: 1

062332

Recording Area

Name and Return Address
Marta Meyers
Foley & Lardner
P.O. Box 1497
Madison, WI 53701-1497

Part of 60-0810-313-0307-7 (old number)
251-0810-313-0307-7 (new number)
Parcel Identification Number (PIN)

THIS CONVEYANCE IS EXEMPT FROM FEE AND RETURN PER SECTION 77.25(11) WIS. STAT.

Document Number

STATE BAR OF WISCONSIN FORM 5 - 2000

PERSONAL REPRESENTATIVE'S DEED

MARSHALL & ILSLEY TRUST COMPANY

_____, as Personal Representative of the estate of

PHILIP J. ROTH

_____ ("Decedent"),

for a valuable consideration conveys, without warranty, to PATRICIA CARROLL, NANCY HAUSMANN, KATHLEEN MOORE, PHILIP J. ROTH, JR. and STEWART G. ROTH Grantee, the following described real estate in DANE County, State of Wisconsin (the "Property") (if more space is needed, please attach addendum):

An undivided one-fourth interest in the following described real estate: Parcel I: Part of Outlot One (1), Burke Assessor's Plat No. 1, in the City of Madison, Dane County, Wisconsin, more fully described as follows: Beginning at a point on the East line of Sherman Avenue which is South 00° 30' East 799.4 feet and South 89° 55' East 33 feet from the Northwest corner of said Outlot 1; thence South 89° 55' East 136.5 feet; thence South 00° 30' East 72 feet; thence North 89° 55' West 136.5 feet to the East line of Sherman Avenue; thence North 00° 30' West 72 feet along the East line of Sherman Avenue to the point of beginning.

Personal Representative by this deed does convey to Grantee all of the estate and interest in the Property which the Decedent had immediately prior to Decedent's death, and all of the estate and interest in the Property which the Personal Representative has since acquired.

Dated this 20th day of December, 2001.

By: _____

• _____

Personal Representative

Marshall & Ilsley Trust Company

By: Gary Kroth Parks, V.P.

• Tammy Koester Parks, V.P.

Personal Representative

AUTHENTICATION

Signature(s) Tammy Koester Parks

authenticated this 20th day of December, 2001

Janice N. Bensky

• JANICE N. BENSKY

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, _____
authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

JANICE N. BENSKY
STAFFORD ROSENBAUM LLP

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

ACKNOWLEDGMENT

STATE OF WISCONSIN)
) ss.
DANE County.)

Personally came before me this _____ day of _____, 2001 the above named _____ to me known to be the person _____ who executed the foregoing instrument and acknowledged the same.

• _____

Notary Public, State of Wisconsin
My Commission is permanent. (If not, state expiration date: _____, _____.)

*Names of persons signing in any capacity must be typed or printed below their signature.

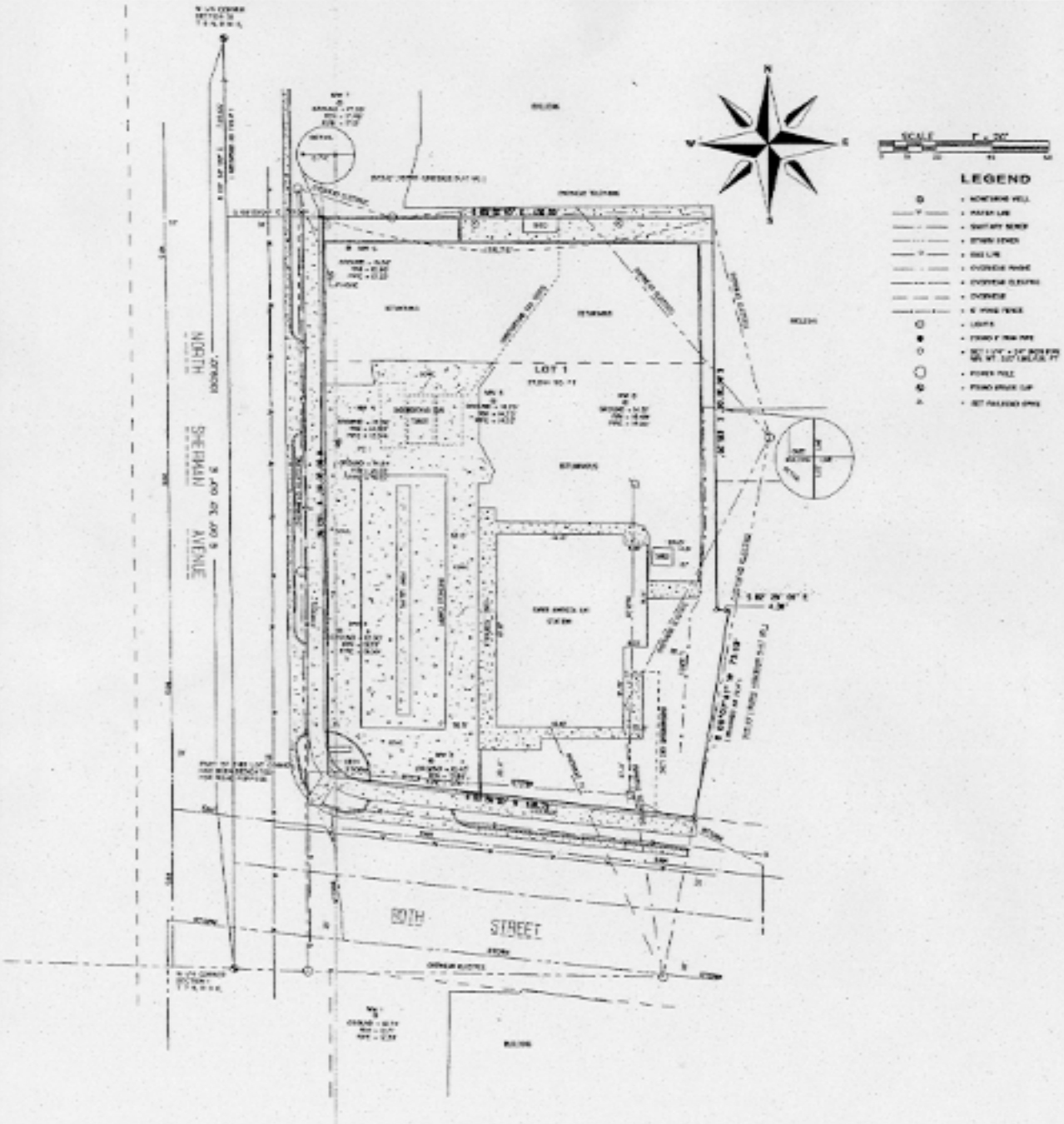
PERSONAL REPRESENTATIVE'S DEED STATE BAR OF WISCONSIN FORM No. 5-2000

Stafford Rosenbaum LLP PO Box 1784, Madison WI 53701-1784
Phone: (608) 256-0226 Fax: (608) 259-2600 Stafford Rosenbaum

T5038950.ZFX

Produced with ZipForm™ by RE FormsNet, LLC 18025 Fifteen Mile Road, Clinton Township, Michigan 48035, (800) 383-9805

1/11



DESCRIPTION OF RECORD

Part of outlot 1 of Burke Assessor Plat No. 1; Beginning at the intersection of North line of Bath Avenue and the East line Sherman Avenue; thence North 147 feet; thence East 136.5 feet; thence S 8°39' W, 86.2 feet; thence S 89°55' E, 4.3 feet; thence S 1°48'W, 12.4 feet to the north line of Bath Avenue; thence westerly along said north line to point of beginning. Except southeasterly corner for street purpose.

Also:

Beginning 33 feet east and 249.4 feet south of the Northwest corner of the NW 1/4 of the SW 1/4; thence S 89°55' E, 116.5 feet; thence S 8°39' E 90 feet; thence N 89°55' W, 136.5 feet to the East line of Sherman Avenue; thence N 8°39' W, 39 feet to the point of beginning.

SURVEYOR'S CERTIFICATE

I, Ronald E. Williamson, Registered Land Surveyor S-1294 of the State of Wisconsin do hereby certify that I have surveyed, divided and mapped according to the official records the property described and pictured hereon. I, further certify that this plat is a true scaled and dimensioned representation of the boundaries buildings, improvements and all visible encroachments if any.

Date February 19, 1996

Ronald E. Williamson
Ronald E. Williamson
Registered Land Surveyor S-1294

SURVEYED FOR:

[illegible] ENVIRONMENTAL SERVICES, INC.
[illegible]
OAK CREEK, WI [illegible]

PROPERTY ADDRESS:

[illegible] NORTH SHERMAN AVENUE

WILLIAMSON SURVEYING COMPANY

[illegible]

CERTIFIED SURVEY MAP

[illegible]

DATE [illegible]	[illegible]
SCALE 1"=30'	DRAWING NO. [illegible]
DRAWN BY [illegible]	SHEET 1 OF 1

CORRESPONDENCE/MEMORANDUM

State of Wisconsin

DATE: January 14, 2002 FILE REF: 03-13-001981

TO: Patrick McCutcheon, Steve Ales and Tom Stunkard

FROM: WJ Wojner

SUBJECT: SuperAmerica #4090, 1101 North Sherman Avenue, Madison

During a piping system upgrade in 1993 contamination was found. About 60 cubic yards of impacted soil was removed at the time.
In April 1994 8 Geoprobes were conducted and samples of the soil and the groundwater were obtained and analyzed. Subsequently 9 soil borings with 8 completed as monitoring wells were placed at the site in May and December 1995. Initially free product was observed in MW-3 so absorbent material was placed in the well until June 1999.
In August 1999 the soil vapor extraction system and the air sparge system was started and run through April of 2000. There were 6 vertical vapor extraction wells and six air sparge points. They claim to have removed 2,149 pounds of VOCs or about 330 gallons of gasoline.
Overall there have been 20 rounds of groundwater samplings. Many rounds of samples have included Natural Attenuation parameters.
The soils are about 8 feet of clay followed by sand and silty sand. Groundwater is at 12-21 feet and flow is to the north with a northwest aspect at times. *The piezometer shows a slight downward gradient.*

They claim that the chlorinated contamination found in the groundwater is from an off site undetermined source. They collected 10 rounds of samples and analyzed for VOCs from 5/95 - 8/98. There are still ES exceedances in the original source area wells. They are claiming that the contamination will be reduced by Natural Attenuation.

They have some elevated levels of contamination in the soil but the soil removal effort greatly reduced the contaminant mass and there is not much that can be done to take out what is left. The groundwater contamination seems to be stable and the source area near MW-3 is still high and fluctuates.

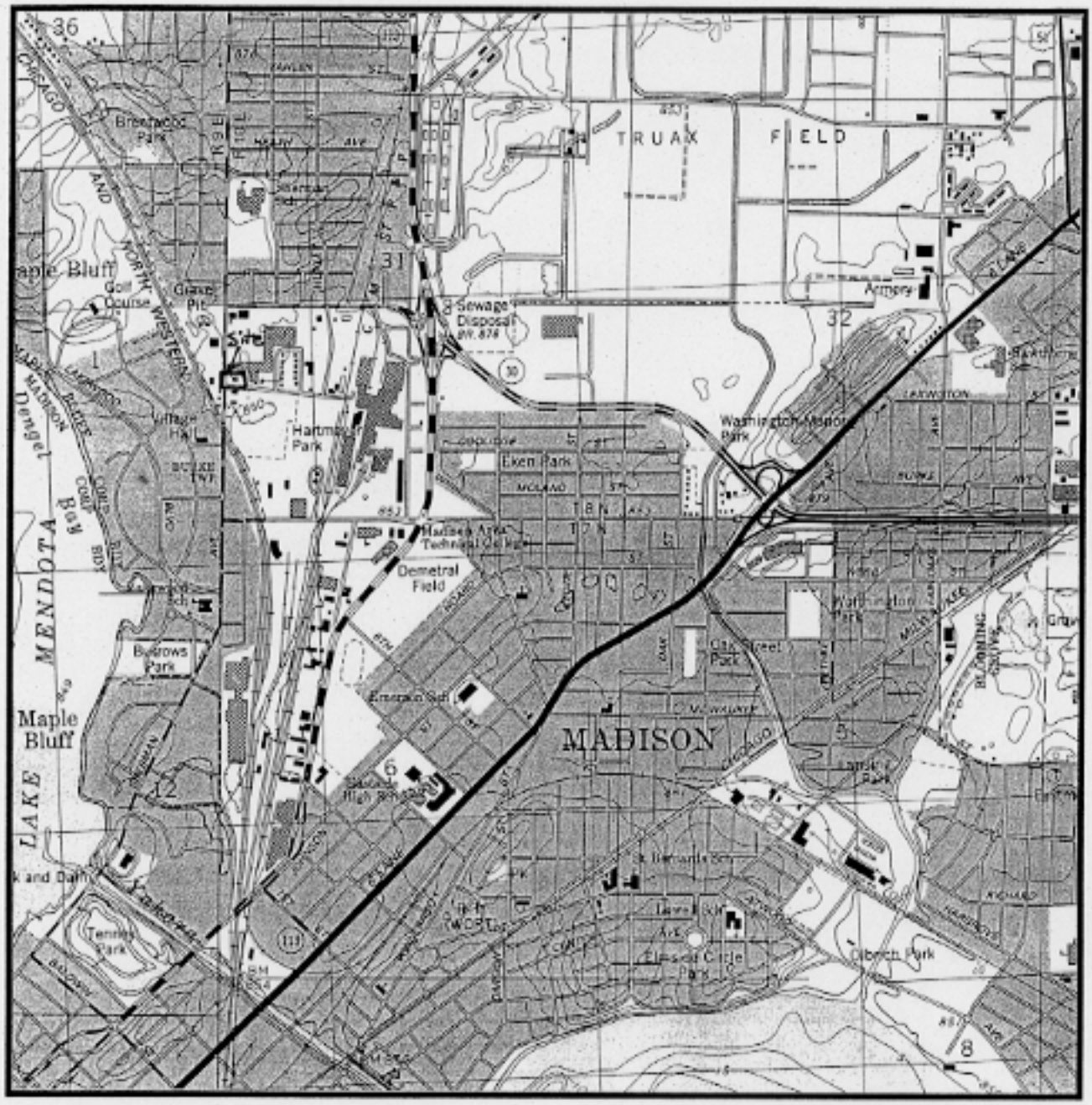
CLOSE With a GIS? _____

Patrick McCutcheon Patrick McCutcheon Date 1/15/02

Tom Stunkard Tom Stunkard Date 1/15/02

Steve Ales Stephen M. Ales Date 1/15/02

* GIS closure and offsite exemption for chlorinated



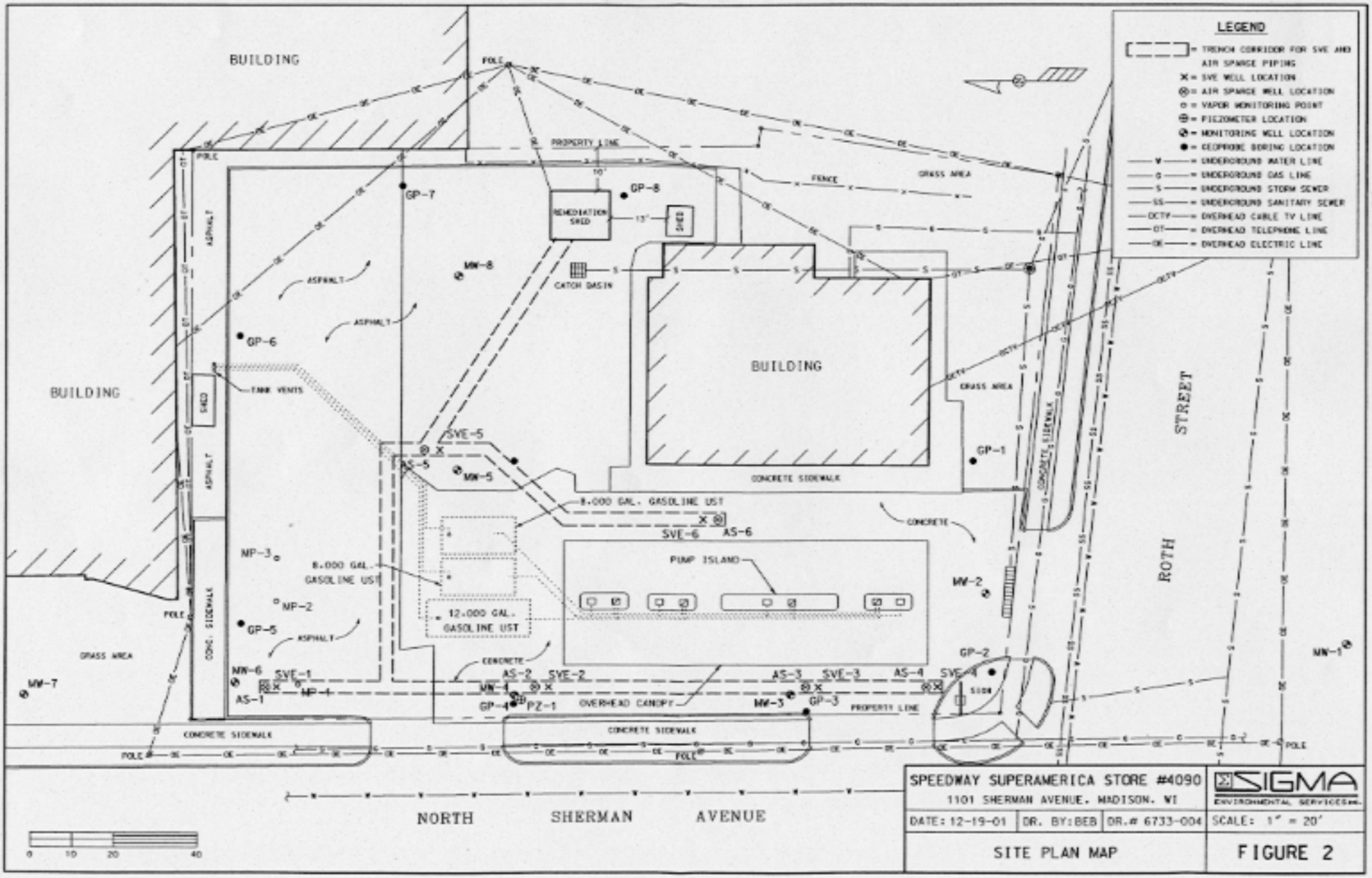
SW 1/4 of the SW 1/4 Sec.31 T.08N R.10E

1 ½ 0 1 MILE

WISCONSIN

ADAPTED FROM U.S.G.S. 7.5 MINUTE SERIES, MADISON EAST, WISCONSIN QUADRANGLE DATED 1958 PHOTOREVISED 1983

SUPERAMERICA STORE #4090 1101 SHERMAN AVENUE, MADISON, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 5-15-97	DR. BY: TMM	DR.# 2103-001	SCALE: SEE ABOVE
SITE LOCATION MAP			FIGURE 1



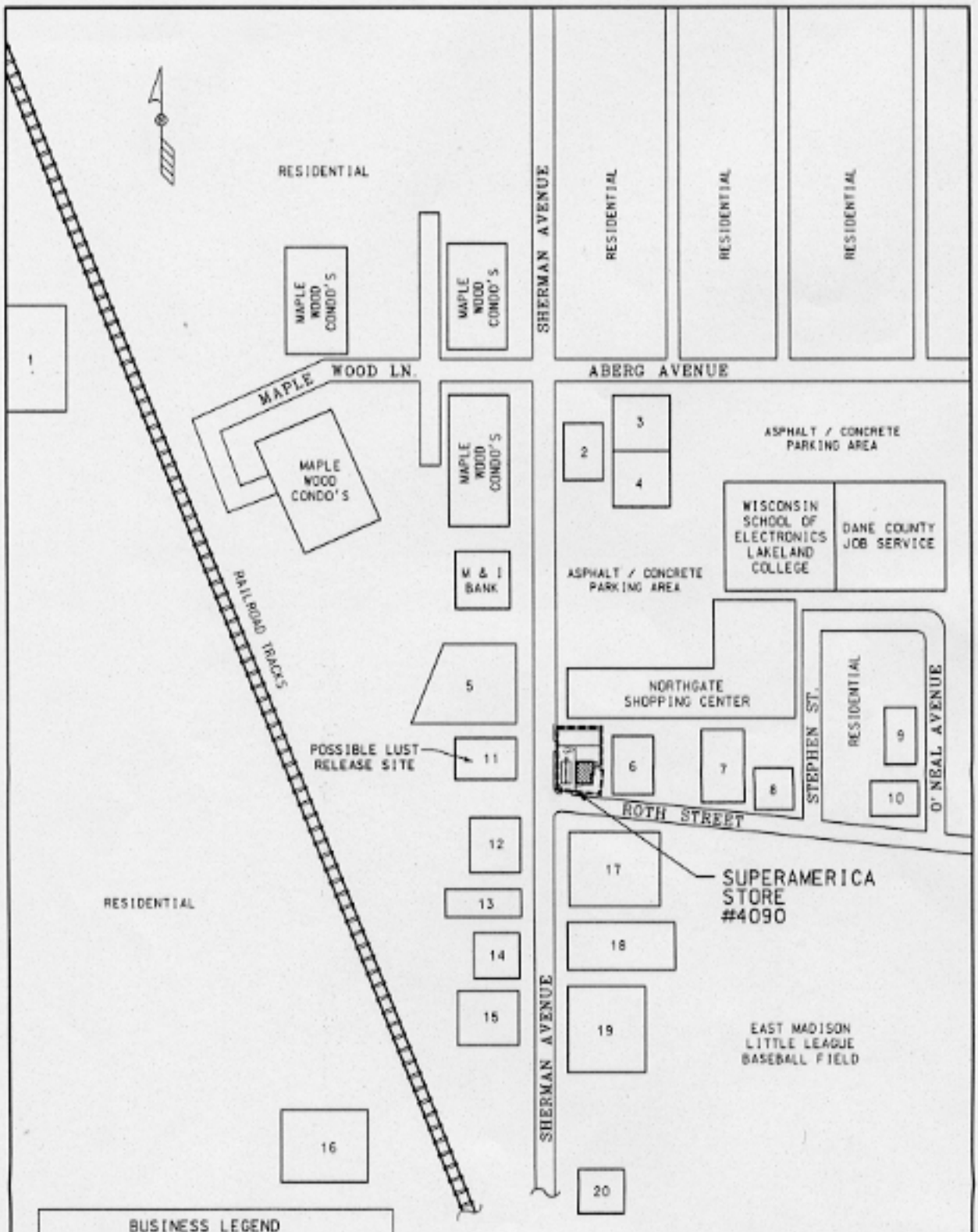
SPEEDWAY SUPERAMERICA STORE #4090
1101 SHERMAN AVENUE, MADISON, WI

SIGMA ENVIRONMENTAL SERVICES, INC.

DATE: 12-19-01	DR. BY: BEB	DR.# 6733-004	SCALE: 1" = 20'

SITE PLAN MAP

FIGURE 2



BUSINESS LEGEND

1 - MAPLE BLUFF COUNTRY CLUB
2 - KLINKE CLEANERS
3 - ANTIQUE MALL
4 - IMPERIAL PALACE
5 - PROPOSED Mc DONALDS RESTAURANT
6 - POLLOCK AUTO BODY
7 - DORN BAIT & TACKLE
8 - RESIDENCE
9 - IDEAL MFG. & SALES CORP.
10 - IDEAL MINI STORAGE
11 - 76 GASOLINE STATION
12 - OLE & RICK'S NORTH SIDE INN
13 - MAINTENANCE SERVICES OF MADISON
14 - VIET FOODS
15 - CITGO GASOLINE STATION
16 - VILLAGE OF MAPLE BLUFF MUNICIPAL BUILDING
17 - ESQUIRE DINING
18 - FOX WATER
19 - WALSH FAMILY PRACTICE CENTER
20 - CLASSIC CLEANERS

SUPERAMERICA STORE #4090 1101 SHERMAN AVENUE, MADISON, WI			SIGMA ENVIRONMENTAL SERVICES, INC.
DATE: 10-22-01	DR. BY: BEB	DR.# 2103-017	SCALE: NOT TO SCALE
SITE AREA MAP			FIGURE 1

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

	Units	MW-1																				ES	PAL
AS/SVE System Status		Pre-System									System On						Post-System						
Date Sampled		05/22/95	12/18/95	03/13/96	06/05/96	09/25/96	03/18/97	06/03/97	08/26/97	12/08/97	06/03/98	12/09/98	04/06/99	06/24/99	11/10/99	01/17/00	04/11/00	07/11/00	10/18/00	01/22/01	06/03/01		
GRO	µg/l	160	140	290	170	80	200	250	72	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzene	µg/l	0.38	<1.0	<6.5	<2.6	<1.4	<4.0	<5.0	<1.5	<0.30	<0.28	<0.2	0.32	<0.26	34	11	1.6	<0.35	<0.35	<0.35	<0.45	NS	NS
Toluene	µg/l	0.7	1.0	<6.8	<3.0	<2.1	<4.0	<5.0	<1.0	<0.20	<0.42	<0.3	<0.21	<0.21	0.55	0.46	<.27	<0.38	<0.38	<0.38	<0.68	5.0	0.5
Ethylbenzene	µg/l	0.28	<0.78	<6.5	<3.9	<1.8	<4.0	<5.0	<1.0	<0.20	<0.37	<0.3	<0.24	<0.24	<0.32	1.5	<.32	<0.37	<0.37	<0.37	<0.82	343	68.6
Xylenes	µg/l	1.09	1.5	<12.8	<13.0	<4.9	<12.0	<15	<4.0	<0.80	<0.98	<0.9	<1.34	<1.34	1.13	< 0.67	<.43	<1.04	<1.14	<1.14	<2.47	1000	200
n-Butylbenzene	µg/l	<0.2	<0.85	<8.5	<9.5	<6.5	<12	<15	<1.5	<0.30	<1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/l	0.35	<1.1	<8.5	<7.0	<3.5	<6.0	<7.5	<1.0	<0.20	<0.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethene	µg/l	310	190	610	300	100	460	750	130	320	38.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
trans-1,2-Dichloroethene	µg/l	4.6	<4.6	<9.3	3.7	<3.8	<4.0	<5.0	2.0	2.8	<0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	7.0
2,2-Dichloropropane	µg/l	340	250	530	370	140	<4.0	<5.0	<2.5	<0.50	<1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	20
di-Isopropyl Ether	µg/l	<1.0	<2.0	<1.3	<3.5	<2.9	<4.0	<5.0	<1.5	<0.30	<0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	<0.2	<1.4	<6.8	<6.5	<4.8	<4.0	<5.0	<1.0	<0.20	<0.95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	<0.2	<0.95	<6.5	<7.5	<3.5	<8.0	<10	<1.0	<0.20	<0.70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	<5.0	<10	<4.5	<3.3	<4.5	<4.0	<5.0	<1.0	2.5	<0.90	0.6	26	11	7.5	5.8	<.32	29	3	<0.38	16	60	12
Methylene Chloride	µg/l	<9.1	<3.8	<25	<40	<33	<8.0	<7.5	<2.5	<0.50	<4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	150	15
Naphthalene	µg/l	0.51	3.3	<8.3	<16	<6.0	<16	<20	<5.5	<1.1	<1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.89	40	8.0
n-Propylbenzene	µg/l	<0.2	<2.0	<5.3	<8.5	<5.3	<8.0	<7.5	<1.0	<0.20	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tetrachloroethene	µg/l	14	11	14	15	25	<8.0	<7.5	12	16	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0	0.5
Trichloroethene	µg/l	54	30	120	110	33	140	160	46	60	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	0.63	<1.0	<5.8	<7.5	<4.0	<14	<18	<3.0	<0.60	<0.80	<0.4	<0.88	<0.88	0.32	< 0.22	<.22	<0.37	<0.37	0.64	<0.92	NS	NS
1,3,5-Trimethylbenzene	µg/l	<0.2	<1.0	<6.0	<11	<6.3	<8.0	<10	<1.5	<0.30	<1.3	<0.4	<0.54	<0.54	<0.27	< 0.27	<.27	<0.37	<0.37	0.43	<0.94	NS	NS
Total Trimethylbenzene	µg/l	0.63	<2.0	<11.8	<18.5	<10.3	<22	<28	<4.5	<0.9	<2.1	<0.8	<1.4	<1.4	0.32	<0.5	<0.5	<0.74	<0.74	1.07	<1.86	480	96
Vinyl Chloride	µg/l	15	<10	28	<6.5	<12	16	30	<2.5	11	<2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<1.0	<3.8	<4.1	<4.1	<3.4	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5

Key:

- GRO = Gasoline Range Organics
- µg/l = Micrograms per liter
- NA = Not Analyzed
- FP = Not sampled due to measurable free product
- ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
- PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit
- **bold** = Exceeds Enforcement Standard
- bold = Exceeds Preventive Action Limit
- NS = No Established Standard

AS/SVE System started in 8/99 and was shut down in 4/00.

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4096
1101 North Sherman Avenue
Madison, Wisconsin

	Units	MW-2																		ES	PAL
AS/SVE System Status		Pre-System								System On				Post-System							
Date Sampled		05/22/95	12/15/95	03/13/96	06/06/96	09/25/96	03/18/97	06/03/97	08/28/97	12/05/97	08/03/98	12/09/98	04/06/99	08/24/99	01/17/00	04/11/00	01/23/01	04/24/01	08/03/01		
GRO	µg/l	1000	850	310	180	260	430	620	390	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzene	µg/l	**76**	**23**	2.5	**12**	**8.2**	4.0	5.0	6.5	<1.5	1.7	**5.8**	1.4	**6.7**	< 0.27	<.27	0.91	0.49	<0.45	5.0	0.5
Toluene	µg/l	17	7.0	<1.4	1.2	<0.84	1.5	<2.0	4.5	2.5	2.9	1.0	<0.21	1.0	< 0.27	<.27	<0.38	0.9	<0.68	343	68.6
Ethylbenzene	µg/l	16	9.9	2.5	2.3	1.1	<1.0	<2.0	<1.0	<1.0	<1.8	0.5	2.2	1.2	< 0.32	<.32	<0.37	<0.82	<0.82	1000	200
Xylenes	µg/l	40	18.2	<2.6	1.6	<1.95	<3.0	<6.0	2.0	<4.0	2.5	3.9	2.9	4.5	< 0.70	<.43	<1.14	1.1	<2.47	10000	1000
n-Butylbenzene	µg/l	<0.2	6.7	<1.7	<0.95	<2.6	<3.0	<6.0	5.0	<1.5	16.0	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/l	5.5	2.6	<1.3	1.2	<1.4	<1.5	<3.0	3.0	<1.0	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethene	µg/l	**380**	**140**	71	**120**	**74**	**100**	**210**	**130**	**160**	**220**	NA	NA	NA	NA	NA	NA	NA	NA	70	7.0
trans-1,2-Dichloroethene	µg/l	13	6.1	2.8	4.1	2.7	<1.0	<2.0	4.5	2.0	6.4	NA	NA	NA	NA	NA	NA	NA	NA	100	20
2,2-Dichloropropane	µg/l	370	180	71	120	98	<1.0	<2.0	<2.5	<2.5	<9.5	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
di-Isopropyl Ether	µg/l	4.0	<2.0	0.41	0.78	<1.1	<1.0	<2.0	<1.5	<1.5	<2.8	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	4.8	2.0	<1.4	0.78	<1.9	<1.0	<2.0	2.5	<1.0	<4.8	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	3.8	1.1	<1.3	<0.75	<1.4	<2.0	<4.0	<1.0	<1.0	<3.5	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	**54**	**21**	6.8	20	9.7	1.5	8.0	24	1.5	14	11	5.1	25	0.32	<.32	<0.38	16	9.7	60	12
Methylene Chloride	µg/l	<9.1	<3.8	<5.0	<2.2	<9.0	<1.5	<3.0	<2.5	<2.5	<23	NA	NA	NA	NA	NA	NA	NA	NA	150	15
Naphthalene	µg/l	4.7	4.8	<1.7	<1.6	<2.4	<4.0	<8.0	5.5	<5.5	<6.0	NA	NA	NA	NA	NA	NA	2	<0.89	40	8.0
n-Propylbenzene	µg/l	6.0	2.9	<1.1	<0.85	<2.1	<1.5	<3.0	<1.0	<1.0	<5.3	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tetrachloroethene	µg/l	39	46	38	26	34	70	55	41	47	31	NA	NA	NA	NA	NA	NA	NA	NA	5.0	0.5
Trichloroethene	µg/l	110	34	16	10	7.5	16	20	22	30	38	NA	NA	NA	NA	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	13	9.6	<1.2	<0.75	<1.6	<3.5	<7.0	<3.0	<3.0	<4.0	1.0	<0.86	2.8	< 0.22	<.22	7.0	2.2	<0.92	NS	NS
1,3,5-Trimethylbenzene	µg/l	10	3.5	<1.2	<1.1	<2.5	<2.0	<4.0	<1.5	<1.5	<6.3	0.7	<0.54	1.3	< 0.27	<.27	4	<0.94	<0.94	NS	NS
Total Trimethylbenzene	µg/l	23	13.1	<2.4	<1.85	<4.1	<5.5	<11	<4.5	<4.5	<10.3	1.7	<1.4	4.1	<0.5	<0.5	11	2.2	<1.88	480	96
Vinyl Chloride	µg/l	**95**	<10	**52**	**83**	**76**	**80**	**99**	**80**	**28**	**84**	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<1.0	<3.8	<4.1	<4.1	<3.4	<1.0	2	<1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5

Key:

GRO = Gasoline Range Organics
µg/l = Micrograms per liter
NA = Not Analyzed
FP = Not sampled due to measurable free product
ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit
bold (boxed) = Exceeds Enforcement Standard
bold = Exceeds Preventive Action Limit
NS = No Established Standard
AS/SVE System started in 8/99 and was shut down in 4/00.

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

	Units	MW-3																					ES	PAL
AS/SVE System Status		Pre-System											System On						Post-System					
Date Sampled		06/23/95	12/15/95	03/13/96	06/06/96	09/25/96	03/18/97	06/03/97	06/25/97	12/05/97	06/03/98	12/09/98	04/05/99	06/24/99	11/10/99	01/17/00	04/11/00	07/11/00	10/18/00	01/22/01	04/24/01	08/03/01		
GRO	µg/l	17000	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzene	µg/l	**1200**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	**540**	FP	<2.7	< 1.4	<1.4	<0.35	<3.5	<1.7	<4.5	<0.45	5.0	0.5
Toluene	µg/l	**220**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	45	FP	<2.7	< 1.4	<1.4	0.46	<3.8	<1.9	<6.8	<0.68	343	68.6
Ethylbenzene	µg/l	**390**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	**450**	FP	58	87	67	7.7	50	37	35	11	1000	200
Xylenes	µg/l	1340	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	**1680**	FP	182	111	120	17.7	87	74	52	11.4	10000	1000
n-Butylbenzene	µg/l	330	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/l	46	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethene	µg/l	**200**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	70	7.0
trans-1,2-Dichloroethene	µg/l	<25	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	100	20
2,2-Dichloropropane	µg/l	420	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
di-Isopropyl Ether	µg/l	82	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	69	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	18	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	**360**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	**170**	FP	<3.2	2.1	<1.6	3.3	18	<1.8	31	22	60	12
Methylene Chloride	µg/l	**280**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	150	15
Naphthalene	µg/l	**120**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	**91**	27	40	8.0
n-Propylbenzene	µg/l	**240**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tetrachloroethene	µg/l	**48**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	5.0	0.5
Trichloroethene	µg/l	**65**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	1400	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	2900	FP	1100	370	590	110	330	670	520	190	NS	NS
1,3,5-Trimethylbenzene	µg/l	400	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	720	FP	350	37	96	35	44	43	26	<0.94	NS	NS
Total Trimethylbenzene	µg/l	**1800**	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	**3620**	FP	**1450**	407	**686**	145	374	**713**	**546**	190	480	96
Vinyl Chloride	µg/l	<5.0	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<1	FP	FP	FP	FP	FP	FP	FP	FP	FP	FP	NA	FP	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5

Key:

GRO = Gasoline Range Organics
µg/l = Micrograms per liter
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AS/SVE System started in 8/99 and was shut down in 4/00.

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

	Units	MW-4																					ES	PAL
AS/SVE System Status		Pre-System									System On					Post-System								
Date Sampled		06/22/96	12/18/96	03/13/96	06/05/96	09/25/96	03/18/97	06/03/97	08/28/97	12/05/97	06/03/98	12/09/98	04/05/99	06/24/99	11/10/99	01/17/00	04/11/00	07/11/00	10/19/00	01/22/01	04/24/01	08/03/01		
GRO	µg/l	43000	18000	31000	28000	28000	17000	14000	22000	16000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzene	µg/l	1900	2000	1600	1100	1200	650	800	1100	600	850	1200	590	730	440	2.3	<.27	<7.0	<6.8	26	15	9.8	NS	NS
Toluene	µg/l	4700	2800	3100	1600	1700	45	350	890	460	800	890	380	840	660	0.36	<.27	<7.6	<9.5	7.2	<14	<14	5.0	0.5
Ethylbenzene	µg/l	2200	1800	1600	1400	1400	1300	1300	1800	1100	1400	2300	1400	1700	1700	26	16	82	250	690	250	180	343	68.6
Xylenes	µg/l	11600	8000	7700	6000	6200	4700	5000	7300	3900	5500	9600	4700	6700	6700	146	85	1650	1650	1442	728	706	1000	200
n-Butylbenzene	µg/l	760	440	330	220	160	110	80	280	140	490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10000	1000
sec-Butylbenzene	µg/l	150	76	<65	22	<35	<15	<15	50	<10	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethene	µg/l	220	160	160	140	130	25	100	150	40	47	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
trans-1,2-Dichloroethene	µg/l	<50	<58	<93	<8.0	<38	<10	<10	<30	<15	<9.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	70	7.0
2,2-Dichloropropane	µg/l	440	220	220	200	130	<10	<10	<50	<25	<24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	20
di-Isopropyl Ether	µg/l	<100	<25	58	52	<28	65	<10	40	45	<6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	160	110	73	64	59	60	40	100	40	77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	28	19	<65	35	<35	<20	<20	50	<10	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	<500	<130	69	54	<45	<10	<10	<20	<10	18	<20	49	58	100	16	<.32	<7.2	<9.0	<3.6	<8.6	<8.6	60	12
Methylene Chloride	µg/l	<910	<48	<250	<100	<230	<15	<15	<50	<25	<56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	150	15
Naphthalene	µg/l	540	410	480	630	350	380	320	700	340	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	570	440	40	8.0
n-Propylbenzene	µg/l	450	310	210	180	170	220	200	320	200	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tetrachloroethene	µg/l	<50	<61	<83	<12	<25	<15	<15	<60	<30	<6.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0	0.5
Trichloroethene	µg/l	<60	<75	<75	<8.8	<35	<10	45	<30	50	<8.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	3000	2300	1900	1600	1500	1500	1300	2200	1300	2400	2700	1700	2100	2100	58	150	2200	3700	1900	2000	1900	NS	NS
1,3,5-Trimethylbenzene	µg/l	980	580	460	350	390	210	180	530	230	820	620	290	460	420	13	30	880	1500	680	720	560	NS	NS
Total Trimethylbenzene	µg/l	3980	2880	2360	1950	1890	1710	1480	2730	1530	3220	3320	1990	2560	2520	71	180	3080	5200	2580	2720	2480	480	96
Vinyl Chloride	µg/l	<500	<130	<35	21	<120	<15	55	<50	85	<29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<1.0	<3.8	<4.1	<4.1	<3.4	<1	1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5

Key:

GRO = Gasoline Range Organics
µg/l = Micrograms per liter
NA = Not Analyzed
FP = Not sampled due to measurable free product
ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
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bold = Exceeds Enforcement Standard
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AS/SVE System started in 8/99 and was shut down in 4/00.

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

	Units	MW-5																		ES	PAL
AS/SVE System Status		Pre-System										System On			Post-System						
Date Sampled		06/03/96	12/18/96	03/13/97	06/05/96	09/25/96	03/18/97	06/03/97	09/26/97	12/05/97	06/03/98	12/09/98	04/06/99	06/24/99	11/10/99	01/17/00	04/11/00	04/24/01	08/03/01		
GRO	µg/l	11000	18000	9200	6300	12000	7600	8200	11000	5800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzene	µg/l	48	650	230	94	150	320	160	70	38	96	150	170	37	0.7	< 0.27	<.27	4.3	9.2	5.0	0.5
Toluene	µg/l	110	650	140	87	110	1200	120	75	42	16	190	170	18	0.57	< 0.27	<.27	1.5	4	343	68.6
Ethylbenzene	µg/l	600	950	590	340	590	260	370	290	320	1800	650	1200	160	4.0	< 0.32	<.32	6.9	21.0	1000	200
Xylenes	µg/l	2660	3010	2100	1350	1870	750	975	1580	1500	1740	2160	2610	197	6.0	< 0.67	0.78	1.0	87.0	10000	1000
n-Butylbenzene	µg/l	<2.5	110	97	82	96	110	80	200	150	110	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/l	12	<28	<33	<8.8	16	30	<15	40	14	12	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethene	µg/l	4.0	<15	<29	24	13	10	<10	35	<4.0	<8.0	NA	NA	NA	NA	NA	NA	NA	NA	70	7.0
trans-1,2-Dichloroethene	µg/l	<6.3	<120	<46	<4.0	<9.4	24	<10	<15	<8.0	<7.5	NA	NA	NA	NA	NA	NA	NA	NA	100	20
2,2-Dichloropropane	µg/l	<8.8	<170	<53	34	<24	<4.0	<10	<25	<10	<19	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
di-Isopropyl Ether	µg/l	80	<50	46	27	<8.9	64	<10	180	60	<5.5	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	31	41	<34	18	34	40	15	60	22	31	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	8.4	<24	<33	<9.4	12	18	<20	30	8.0	7.3	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	<63	<250	46	34	<11	0.3	<10	<10	<4.0	<9.0	49	45	52	26	3.2	5.4	42	32	60	12
Methylene Chloride	µg/l	<110	<95	<120	<50	<56	<6.0	<15	<25	<10	<45	NA	NA	NA	NA	NA	NA	NA	NA	150	15
Naphthalene	µg/l	230	220	210	150	200	110	140	300	120	300	NA	NA	NA	NA	NA	NA	2.1	6.7	40	8.0
n-Propylbenzene	µg/l	100	130	94	56	110	140	150	200	120	120	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tetrachloroethene	µg/l	<6.3	<120	<41	7.9	11	36	<15	<30	<12	16	NA	NA	NA	NA	NA	NA	NA	NA	5.0	0.5
Trichloroethene	µg/l	<7.5	<150	<38	<4.4	<8.8	78	<10	<15	<8.0	<7.0	NA	NA	NA	NA	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	710	1100	730	410	790	780	1200	1300	680	800	1100	2000	410	20	0.22	0.86	1.4	6.5	NS	NS
1,3,5-Trimethylbenzene	µg/l	260	310	190	110	160	160	160	350	220	200	310	460	24	0.81	< 0.27	<.27	<0.94	4.8	NS	NS
Total Trimethylbenzene	µg/l	970	1410	920	520	950	940	1360	1650	900	1000	1410	2460	434	20.81	0.22	0.86	1.4	11.1	480	96
Vinyl Chloride	µg/l	<63	<250	<18	33	<29	14	26	<25	22	<24	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<1.0	<3.8	<4.1	<4.1	<3.4	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5

Key:

GRO = Gasoline Range Organics
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AS/SVE System started in 8/99 and was shut down in 4/00.

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

	Units	MW-5																		ES	PAL
AS/SVE System Status		Pre-System								System On				Post-System							
Date Sampled		12/15/95	03/13/96	06/05/96	09/25/96	03/18/97	06/03/97	08/28/97	12/05/97	06/03/98	12/08/98	04/06/99	06/24/99	11/10/99	01/11/00	07/11/00	10/19/00	04/24/01	08/03/01		
GRO	µg/l	19000	9500	20000	29000	3900	NA	12000	3000	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	NS	NS
Benzene	µg/l	1500	780	1300	1600	600	NA	800	160	890	1100	500	720	44	NS	0.45	9.6	5	2.6	5.0	0.5
Toluene	µg/l	150	120	1700	2000	240	NA	140	8.0	180	1900	750	2400	41	NS	<0.38	2.2	6.3	4.4	343	68.6
Ethylbenzene	µg/l	1000	780	1200	1600	440	NA	1000	250	1800	2400	1100	1200	50	NS	0.44	200	250	27	1000	200
Xylenes	µg/l	5700	2620	6800	5700	308	NA	3700	640	3000	11200	5400	5800	470	NS	3.43	44	99	200	10000	1000
n-Butylbenzene	µg/l	90	100	110	97	<12	NA	160	8.0	110	NA	NA	NA	NA	NS	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/l	12	<33	9.6	<35	<6.0	NA	30	<4.0	<18	NA	NA	NA	NA	NS	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethene	µg/l	12	<29	7.6	<40	<4.0	NA	<10	8.0	<20	NA	NA	NA	NA	NS	NA	NA	NA	NA	NS	NS
trans-1,2-Dichloroethene	µg/l	<29	<46	<4.0	<38	<4.0	NA	<15	<6.0	<19	NA	NA	NA	NA	NS	NA	NA	NA	NA	70	7.0
2,2-Dichloropropane	µg/l	<43	<53	<18	<95	<4.0	NA	<25	<10	<48	NA	NA	NA	NA	NS	NA	NA	NA	NA	100	20
di-Isopropyl Ether	µg/l	<13	46	39	<28	46	NA	110	<6.0	<14	NA	NA	NA	NA	NS	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	66	51	55	81	12	NA	100	10	93	NA	NA	NA	NA	NS	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	6.4	<33	<9.4	<35	<6.0	NA	30	<4.0	<18	NA	NA	NA	NA	NS	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	<63	38	33	<45	66	NA	<10	<4.0	<23	<20	12	81	19	NS	1.7	1.7	3.2	4.1	60	12
Methylene Chloride	µg/l	<24	<130	<55	<220	<6.0	NA	<25	<10	<110	NA	NA	NA	NA	NS	NA	NA	NA	NA	150	15
Naphthalene	µg/l	230	190	570	330	72	NA	400	200	540	NA	NA	NA	NA	NS	NA	NA	67	45	40	8.0
n-Propylbenzene	µg/l	120	110	120	170	56	NA	220	34	210	NA	NA	NA	NA	NS	NA	NA	NA	NA	NS	NS
Tetrachloroethene	µg/l	<31	<41	<5.8	<25	<6.0	NA	<30	<12	<12	NA	NA	NA	NA	NS	NA	NA	NA	NA	5.0	0.5
Trichloroethene	µg/l	<38	<35	<4.4	<35	<4.0	NA	<15	<6.0	<18	NA	NA	NA	NA	NS	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	1200	780	1200	1400	220	NA	1500	360	1200	2600	1400	1300	90	NS	2	16	46	92	NS	NS
1,3,5-Trimethylbenzene	µg/l	310	210	320	360	<6.0	NA	400	16	380	670	360	300	17	NS	0.72	37	7.8	11	NS	NS
Total Trimethylbenzene	µg/l	1510	990	1520	1760	220	NA	1900	376	1580	3270	1760	1600	107	NS	2.72	53	55.8	103	480	96
Vinyl Chloride	µg/l	<63	96	68	<120	10	NA	25	16	<59	NA	NA	NA	NA	NS	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<3.8	<4.1	<4.1	<34	<1	NA	<1	<1	NA	NA	NA	NA	NA	NS	NA	NA	NA	NA	15	1.5

Key:
- * MW-6 was not sampled on June 3, 1997 due to inaccessability
- GRO = Gasoline Range Organics
- µg/l = Micrograms per liter
- NA = Not Analyzed
- FP = Not sampled due to measurable free product
- ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
- PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit
- **bold** (boxed) = Exceeds Enforcement Standard
- **bold** = Exceeds Preventive Action Limit
- NS = No Established Standard
- AS/SVE System started in 8/99 and was shut down in 4/00.

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1103 North Sherman Avenue
Madison, Wisconsin

	Units	MW-7																ES	PAL
AS/SVE System Status		Pre-System											System On		Post-System				
Date Sampled		12/15/95	03/13/96	04/05/96	09/25/96	03/18/97	06/03/97	06/25/97	12/08/97	06/03/98	12/08/98	04/06/99	08/24/99	11/10/99	03/11/00	01/22/01	08/03/01		
GRO	µg/l	<30	200	<22	45	NA	<30	<30	<30	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzene	µg/l	<0.50	**54**	<0.26	3.3	NA	<0.20	<0.30	<0.30	<0.28	<0.2	<0.26	**5.8**	1.5	<0.35	<0.35	<0.45	5.0	0.5
Toluene	µg/l	<0.48	3.5	0.35	0.63	NA	<0.20	<0.20	<0.20	<0.42	<0.3	<0.21	4.8	0.73	<0.38	<0.38	<0.68	343	68.8
Ethylbenzene	µg/l	<0.38	11	<0.39	1.5	NA	<0.20	<0.20	<0.20	<0.37	<0.3	<0.24	9.6	<0.32	<0.37	<0.37	<0.82	1000	200
Xylenes	µg/l	<1.4	22	<13	4.8	NA	<0.60	<0.80	<0.80	<0.99	<0.9	<1.34	58	6.95	<1.14	<1.14	<2.47	10000	1000
n-Butylbenzene	µg/l	<0.43	<1.7	<0.95	<1.3	NA	<0.30	<0.30	<0.30	<1.3	NA	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/l	<0.55	<1.3	<0.70	<0.70	NA	<0.30	<0.20	<0.20	<0.70	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethene	µg/l	<0.30	2.9	0.19	<0.80	NA	<0.20	<0.20	<0.20	<0.80	NA	NA	NA	NA	NA	NA	NA	70	7.0
trans-1,2-Dichloroethene	µg/l	<2.3	<1.9	<0.32	<0.75	NA	<0.20	<0.30	<0.30	<0.75	NA	NA	NA	NA	NA	NA	NA	100	20
2,2-Dichloropropane	µg/l	<3.4	3.6	<1.5	<1.9	NA	<0.20	<0.50	<0.50	<1.9	NA	NA	NA	NA	NA	NA	NA	NS	NS
di-Isopropyl Ether	µg/l	<1.0	2.0	<0.35	<0.55	NA	<0.20	<0.30	<0.30	<0.55	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	<0.70	1.7	<0.85	<0.95	NA	<0.20	<0.20	<0.20	<0.95	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	<0.48	<1.3	<0.75	<0.70	NA	<0.20	<0.20	<0.20	<0.70	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	<0.50	5.9	1.5	0.99	NA	<0.20	0.6	0.6	<0.90	<0.2	0.29	1.3	0.89	0.59	<0.36	<0.43	60	12
Methylene Chloride	µg/l	<1.9	<5.0	<2.2	<4.5	NA	<0.30	<0.50	<0.50	<4.5	NA	NA	NA	NA	NA	NA	NA	150	15
Naphthalene	µg/l	<1.9	5.9	<1.6	1.7	NA	<0.80	<1.1	<1.1	<1.2	NA	NA	NA	NA	NA	NA	<0.89	40	8.0
n-Propylbenzene	µg/l	<1.0	1.1	<0.85	<1.1	NA	<0.30	<0.20	<0.20	<1.1	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tetrachloroethene	µg/l	**13**	**9.1**	**7.4**	**7.7**	NA	**8.6**	**10**	**6.4**	**11**	NA	NA	NA	NA	NA	NA	NA	5.0	0.5
Trichloroethene	µg/l	<3.0	<1.5	0.46	<0.70	NA	<0.20	0.6	0.3	<0.70	NA	NA	NA	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	<0.50	8.5	<0.75	2.5	NA	<0.70	<0.60	<0.60	<0.80	<0.4	<0.86	12.0	3.0	<0.37	<0.37	<0.92	NS	NS
1,3,5-Trimethylbenzene	µg/l	<0.50	<1.2	<1.1	<1.3	NA	<0.40	<0.30	<0.30	<1.3	<0.4	<0.54	3.5	0.64	<0.37	<0.37	<0.94	NS	NS
Total Trimethylbenzene	µg/l	<1.0	8.5	<1.85	2.5	NA	<1.1	<0.9	<0.9	<2.1	<0.8	<1.4	15.5	3.64	<0.74	<0.74	<1.86	480	96
Vinyl Chloride	µg/l	<5.0	**2.8**	<0.65	<2.4	NA	<0.30	<0.50	<0.50	<2.4	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<3.8	<4.1	<4.1	<3.4	NA	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5

Key:
- * MW-7 was not sampled on March 18, 1997 due to inaccessibility
- GRO = Gasoline Range Organics
- µg/l = Micrograms per liter
- NA = Not Analyzed
- FP = Not sampled due to measurable free product
- ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
- PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit
- **bold** = Exceeds Enforcement Standard
- bold = Exceeds Preventive Action Limit
- NS = No Established Standard
- AS/SVE System started in 8/99 and was shut down in 4/00.

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

	Units	MW-8																ES	PAL
AS/SVE System Status		Pre-System									System On			Post-System					
Date Sampled		12/15/96	03/13/96	06/05/96	09/26/96	03/18/97	06/03/97	09/26/97	12/05/97	06/03/98	12/09/98	04/05/99	06/04/99	11/10/99	01/17/00	04/11/00	09/03/01		
GRO	µg/l	<30	42	50	51	140	<30	45	<30	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzene	µg/l	<0.50	<1.8	1.0	<0.28	2.2	<0.20	0.6	<0.30	<0.58	<0.2	<0.26	0.3	<0.27	<.27	<.27	<0.45	5.0	0.5
Toluene	µg/l	0.96	<1.4	1.1	0.47	<0.40	<0.20	0.3	<0.20	<0.42	<0.3	<0.21	<0.21	<0.27	<.27	<.27	<0.68	343	68.6
Ethylbenzene	µg/l	0.52	<1.3	<0.39	<0.37	<0.40	<0.20	<0.20	<0.20	<0.37	<0.3	<0.24	<0.24	<0.32	<.32	<.32	<0.82	1000	200
Xylenes	µg/l	1.1	<2.6	<13	<0.98	<1.2	<0.60	0.3	<0.80	<0.98	<0.9	<1.34	<1.34	<0.67	<.67	0.43	<2.47	10000	1000
n-Butylbenzene	µg/l	<0.43	<1.7	<0.95	<1.3	<1.2	<0.60	<0.30	<0.30	<1.3	NA	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/l	<0.55	<1.3	<0.70	<0.70	<0.60	<0.30	<0.20	<0.20	<0.70	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethane	µg/l	<0.30	<1.2	8.8	12	14	7.8	5.2	7.0	20	NA	NA	NA	NA	NA	NA	NA	70	7.0
trans-1,2-Dichloroethane	µg/l	<2.3	<1.9	<0.32	<0.75	<0.40	<0.20	0.4	<0.30	<0.75	NA	NA	NA	NA	NA	NA	NA	100	20
2,2-Dichloropropane	µg/l	<3.4	<2.1	12	15	<0.40	<0.20	<0.50	<0.50	<1.9	NA	NA	NA	NA	NA	NA	NA	NS	NS
di-Isopropyl Ether	µg/l	<1.0	<0.27	0.37	<0.55	<0.40	<0.20	<0.30	<0.30	<0.55	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	<0.70	<1.4	<0.65	<0.95	<0.40	<0.20	<0.20	<0.20	<0.95	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	<0.48	<1.3	<0.75	<0.70	<0.80	<0.40	<0.20	<0.20	<0.70	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	<0.50	<0.90	4.5	1.9	4.4	2.5	3.9	2.5	2.5	1.0	3.0	3.3	0.66	3.5	4.4	0.76	60	12
Methylene Chloride	µg/l	<1.9	<5.0	<2.2	<4.5	<0.60	<0.30	<0.50	<0.50	<4.5	NA	NA	NA	NA	NA	NA	NA	150	15
Naphthalene	µg/l	<1.9	<1.7	<1.6	12	<1.6	<0.80	<1.1	<1.1	<1.2	NA	NA	NA	NA	NA	NA	<0.89	40	8.0
n-Propylbenzene	µg/l	<1.0	<1.1	<0.85	<1.1	<0.60	<0.30	<0.20	<0.20	<1.1	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tetrachloroethane	µg/l	<2.5	**52**	**14**	**13**	**7.4**	**12**	**14**	**4.6**	**19**	NA	NA	NA	NA	NA	NA	NA	5.0	0.5
Trichloroethane	µg/l	<3.0	<1.5	1.3	0.89	1.0	1.1	1.8	1.0	1.5	NA	NA	NA	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	0.50	<1.2	<0.75	<0.80	<1.4	<0.70	<0.60	<0.60	<0.80	<0.4	<0.86	<0.86	<0.22	<.22	<.22	<0.92	NS	NS
1,3,5-Trimethylbenzene	µg/l	<0.50	<1.2	<1.1	<1.3	<0.80	<0.40	<0.30	<0.30	<1.3	<0.4	<0.54	<0.54	<0.27	<.27	<.27	<0.94	NS	NS
Total Trimethylbenzene	µg/l	0.50	<2.4	<1.85	<2.1	<2.2	<2.1	<0.9	<0.9	<2.1	<0.8	<1.4	<1.4	<0.49	<0.49	<0.49	<1.86	480	96
Vinyl Chloride	µg/l	<5.0	<0.70	**5.4**	<2.4	**7.4**	**1.4**	**1.1**	**1.4**	**9.3**	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<3.8	<4.1	<4.1	<3.4	<1	1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5

Key:

GRO = Gasoline Range Organics
µg/l = Micrograms per liter
NA = Not Analyzed
FP = Not sampled due to measurable free product
ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit
bold = Exceeds Enforcement Standard
bold = Exceeds Preventive Action Limit
NS = No Established Standard
AS/SVE System started in 8/99 and was shut down in 4/00.

TABLE 4
GROUNDWATER LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

	Units	PZ-1																	ES	PAL
AS/SVE System Status		Pre-System								System On				Post-System						
Date Sampled		12/16/95	03/13/96	06/05/96	09/25/96	03/18/97	06/03/97	09/28/97	12/05/97	06/03/98	12/09/98	04/05/99	06/24/99	11/10/99	01/17/00	04/11/00	04/24/01	08/03/01		
GRO	µg/l	6900	2600	410	1300	2200	570	1700	2700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Benzene	µg/l	450	470	55	150	140	8.0	100	240	35	310	130	4.2	2.6	<.27	<.27	5.2	3.5	5.0	0.5
Toluene	µg/l	230	200	7.0	92.0	12.0	2.5	17	66	24	280	140	<0.21	0.42	108	<.27	0.68	2.6	343	68.6
Ethylbenzene	µg/l	530	270	50	94	160	5.5	69	280	35	990	410	4.4	5.1	<.32	<.32	9	100	1000	200
Xylenes	µg/l	1190	318	21.4	156	240	<3.0	137	880	19.5	3870	400	1.3	5.3	<.87	<.43	<2.47	32	10000	1000
n-Butylbenzene	µg/l	<11	<21	<4.8	2.6	8.5	3.0	14	<6.0	4.2	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
sec-Butylbenzene	µg/l	<14	<16	<3.5	2.1	3.5	<1.5	10	<4.0	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
cis-1,2-Dichloroethene	µg/l	140	110	74	27	46	140	<2.0	62	10	NA	NA	NA	NA	NA	NA	NA	NA	70	7.0
trans-1,2-Dichloroethene	µg/l	<58	<23	1.7	<1.5	5.0	<1.0	7.0	<6.0	<0.75	NA	NA	NA	NA	NA	NA	NA	NA	100	20
2,2-Dichloropropane	µg/l	190	140	110	36	<1.0	<1.0	<5.0	<10	<1.9	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
di-Isopropyl Ether	µg/l	32	12	1.9	3.8	14	<1.0	25	12	<0.55	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Isopropyl Benzene	µg/l	<18	<17	<3.3	<1.4	8.0	<1.0	15	12	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
p-Isopropyltoluene	µg/l	<12	<16	<3.8	6.5	<2.0	<2.0	5.0	<4.0	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Methyl-tert-Butyl-Ether	µg/l	<130	36	8.7	<9.0	8.0	1.5	21	16	0.90	<20	32	20	29	6.8	5.5	12	27	60	12
Methylene Chloride	µg/l	<48	<63	<20	2.6	<1.0	<1.5	<5	<10	<4.5	NA	NA	NA	NA	NA	NA	NA	NA	150	15
Naphthalene	µg/l	89	<21	<7.8	8.9	9.5	<4.0	34	100	<1.2	NA	NA	NA	NA	NA	NA	<0.89	41	40	8.0
n-Propylbenzene	µg/l	53	24	6.8	5.4	22	4.5	33	52	6.7	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tetrachloroethane	µg/l	<61	<21	2.9	1.7	16	10	11	<12	<0.50	NA	NA	NA	NA	NA	NA	NA	NA	5.0	0.5
Trichloroethane	µg/l	<75	28	27	5.4	3.0	16	37	16	<0.70	NA	NA	NA	NA	NA	NA	NA	NA	5.0	1.5
1,2,4-Trimethylbenzene	µg/l	330	74	13	34	65	<3.5	110	180	3.8	1100	140	<0.86	3.0	0.25	<.22	1.1	78	NS	NS
1,3,5-Trimethylbenzene	µg/l	33	<15	<5.5	<2.5	<2.0	<2.0	37	14	<1.3	170	5	<0.54	0.53	<.27	<.27	<0.94	1.8	NS	NS
Total Trimethylbenzene	µg/l	363	74	13	34	65	<5.5	147	194	3.8	1270	145	<1.4	3.53	0.25	<0.49	1.1	79.8	480	96
Vinyl Chloride	µg/l	<130	15	7.3	11	16	24	31	40	8.1	NA	NA	NA	NA	NA	NA	NA	NA	0.2	0.02
Dissolved Lead	µg/l	<3.8	<4.1	<4.1	<3.4	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	1.5

Key:

- GRO = Gasoline Range Organics
- µg/l = Micrograms per liter
- NA = Not Analyzed
- FP = Not sampled due to measurable free product
- ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
- PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit
- **bold** = Exceeds Enforcement Standard
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- NS = No Established Standard

AS/SVE System started in 8/99 and was shut down in 4/00.

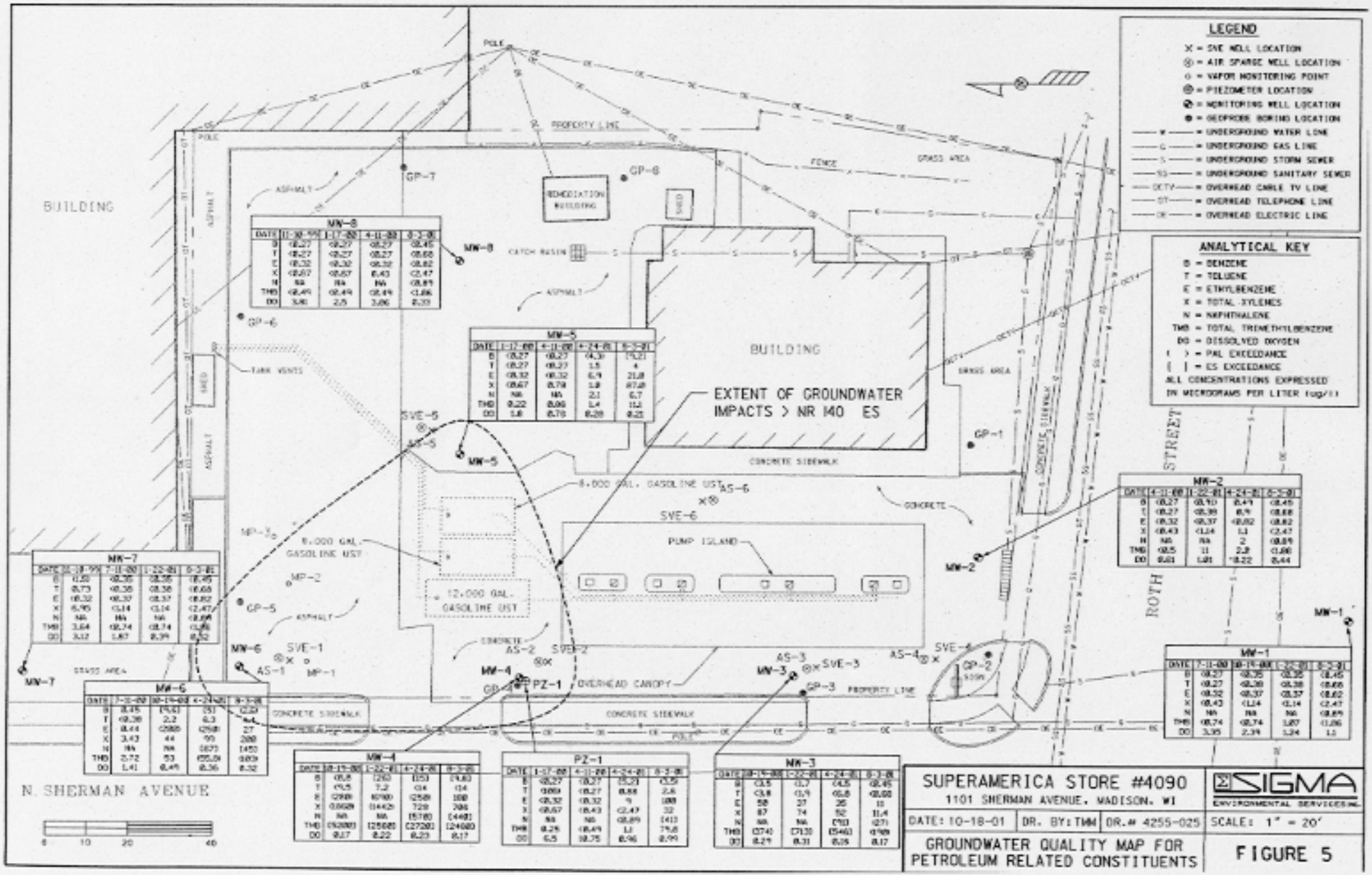

LEGEND
X = SVE WELL LOCATION
= AIR SPARGE WELL LOCATION
= VAPOR MONITORING POINT
= PIEZOMETER LOCATION
= MONITORING WELL LOCATION
= GEOPROBE BORING LOCATION
= UNDERGROUND WATER LINE
= UNDERGROUND GAS LINE
= UNDERGROUND STORM SEWER
= UNDERGROUND SANITARY SEWER
= OVERHEAD CABLE TV LINE
= OVERHEAD TELEPHONE LINE
= OVERHEAD ELECTRIC LINE
ANALYTICAL KEY
B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
N = NAPHTHALENE
TMB = TOTAL TRIMETHYLBENZENE
DO = DISSOLVED OXYGEN
( ) = PAL EXCEEDANCE
[ ] = ES EXCEEDANCE
ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (ug/l)
BUILDING
EXTENT OF GROUNDWATER IMPACTS > NR 140 ES
REMEDIATION BUILDING
SHED
PROPERTY LINE
FENCE
GRASS AREA
CATCH BASIN
ASPHALT
CONCRETE SIDEWALK
CONCRETE
TANK VENTS
8,000 GAL. GASOLINE UST
12,000 GAL. GASOLINE UST
PUMP ISLAND
OVERHEAD CANOPY
POLE
ROTH STREET
N. SHERMAN AVENUE
GP-1
GP-2
GP-3
GP-5
GP-6
GP-7
GP-8
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
PZ-1
SVE-1
SVE-2
SVE-3
SVE-4
SVE-5
SVE-6
AS-1
AS-2
AS-3
AS-4
AS-5
AS-6
MP-1
MP-2
MW-8
DATE 11-30-99 1-17-00 4-11-00 9-3-01
B <0.27 <0.27 <0.27 <0.45
T <0.27 <0.27 <0.27 <0.66
E <0.32 <0.32 <0.32 <0.62
X <0.67 <0.67 0.43 <2.47
N NA NA NA <0.89
TMB <0.49 <0.49 <0.49 <1.86
DO 3.90 2.5 3.06 8.39
MW-5
DATE 1-17-00 4-11-00 4-24-01 9-3-01
B <0.27 <0.27 <4.3 [9.21]
T <0.27 <0.27 1.5 4
E <0.32 <0.32 6.9 21.8
X <0.67 0.79 1.9 [97.0]
N NA NA 2.1 6.7
TMB 0.22 0.06 1.4 11.1
DO 1.8 0.78 0.28 0.21
MW-7
DATE 10-19-99 7-11-00 1-22-01 9-3-01
B 0.52 <0.36 <0.36 <0.45
T 0.73 <0.38 <0.38 <0.66
E <0.32 <0.37 <0.37 <0.62
X 0.95 <1.14 <1.14 <2.47
N NA NA NA <0.89
TMB 3.64 <0.74 <0.74 <1.86
DO 3.12 1.87 0.39 0.32
MW-6
DATE 7-11-00 10-19-00 4-24-01 9-3-01
B 0.45 [9.6] [5] [2.0]
T <0.38 2.2 0.3 NA
E 0.44 [260] [250] 27
X 3.43 44 90 200
N NA NA [87] [450]
TMB 2.72 53 [55.0] 0.09
DO 1.41 0.49 0.36 0.32
MW-4
DATE 10-19-00 1-22-01 4-24-01 9-3-01
B <0.8 [26] [15] [9.8]
T <0.5 7.2 <4 <4
E [2300] [6700] [250] 100
X [0.0029] [1442] 720 206
N NA NA [5170] [4401]
TMB [52000] [25000] [27200] [24000]
DO 0.17 0.22 0.23 0.17
PZ-1
DATE 1-17-00 4-11-00 4-24-01 9-3-01
B <0.27 <0.27 [5.2] 0.59
T <0.69 <0.27 0.88 2.6
E <0.32 <0.32 9 100
X <0.67 <0.43 <2.47 32
N NA NA <0.89 [41]
TMB 0.25 <0.49 1.1 [7.6]
DO 6.5 10.75 0.96 0.99
MW-3
DATE 10-19-00 1-22-01 4-24-01 9-3-01
B 0.5 0.7 <4.5 <0.45
T 0.8 0.9 <5.8 <0.66
E 58 27 25 11
X 87 74 52 11.4
N NA NA [70] [27]
TMB [0.74] [7.10] [5.40] [1.90]
DO 0.29 0.31 0.26 0.17
MW-2
DATE 4-11-00 1-22-01 4-24-01 9-3-01
B <0.27 <0.10 0.49 <0.45
T <0.27 <0.38 0.9 <0.66
E <0.32 <0.37 <0.62 <0.62
X <0.43 <1.14 1.1 <2.47
N NA NA 2 <0.89
TMB <0.5 11 2.8 <1.86
DO 0.01 1.01 [10.22] 0.44
MW-1
DATE 7-11-00 10-19-00 1-22-01 9-3-01
B <0.27 <0.35 <0.35 <0.45
T <0.27 <0.38 <0.38 <0.66
E <0.32 <0.37 <0.37 <0.62
X <0.43 <1.14 <1.14 <2.47
N NA NA NA <0.89
TMB <0.74 <0.74 1.87 <1.86
DO 3.35 2.39 1.24 1.1
0 10 20 40
SUPERAMERICA STORE #4090
1101 SHERMAN AVENUE, MADISON, WI
SIGMA ENVIRONMENTAL SERVICES, INC.
DATE: 10-18-01
DR. BY: TWM
DR.# 4255-025
SCALE: 1" = 20'
GROUNDWATER QUALITY MAP FOR PETROLEUM RELATED CONSTITUENTS
FIGURE 5

TABLE 2
SOIL LABORATORY ANALYTICAL RESULTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

Analyte	Units	MW-1		MW-2		MW-3		MW-4		MW-5		PZ-1	MW-6	MW-7	MW-8	NR 720 RCL
Depth	feet bgs	12-14	18-20	2-4	12-14	2-4	14-16	8-10	14-16	12-14	16-18	19-21	18-20	18-20	14-16	
Date Sampled		05/16/1996	05/16/1996	05/16/1996	05/16/1996	05/16/1996	05/16/1996	05/16/1996	05/16/1996	05/16/1996	05/16/1996	12/06/1995	12/06/1995	12/06/1995	12/06/1995	
PID	iui	1.4	4.8	558	184	2274	1740	5.6	<2500	4.3	134	42.8	36.4	2.7	2.7	NS
GRO	mg/kg	<1.5	<1.5	**250**	<1.5	**310**	57	<1.5	**170**	<1.5	<1.5	1.1	1.6	<0.70	<0.70	100
Benzene	µg/kg	<40	<40	**280**	<40	**460**	**750**	<40	<40	<40	<40	1.2	<0.50	<0.50	<0.50	5.5
Toluene	µg/kg	<150	<150	630	<150	750	360	<150	420	<150	<150	<0.90	<0.90	<0.90	<0.90	1500
Ethylbenzene	µg/kg	<30	<30	**3300**	<30	**2900**	640	<30	1400	<30	150	2.7	<0.38	<0.38	<0.38	2900
Xylenes	µg/kg	<100	<100	**9100**	<100	**11000**	2900	<100	**7100**	<100	550	9.2	<1.4	<1.4	<1.4	4100
1,2,4-Trimethylbenzene	µg/kg	<80	<80	14000	<80	25000	3200	<80	12000	<80	160	10	<0.50	<0.50	<0.50	NS
1,3,5-Trimethylbenzene	µg/kg	<80	<80	5400	<80	8400	7900	<80	4600	<80	<80	1.3	<0.50	<0.50	<0.50	NS
Methyl-tert-Butyl-Ether	µg/kg	<150	<150	<150	<150	530	<150	<150	<150	<150	<150	<5.0	<5.0	<5.0	<5.0	NS
1,2-Dichloroethane	µg/kg	<1.1	<1.1	<1.1	<1.1	<1.1	<550	<1.1	<550	<1.1	<1.1	<5.5	<5.5	<5.5	<5.5	4.9
Lead	mg/kg	8.4	31	48	**150**	33	20	35	14	18	15	3.0	<1.9	<1.9	2.1	50

Key

GRO = Gasoline Range Organics
PID = Photoionization Detection
bgs = Below ground surface
iui = Instrument units as isobutylene
mg/kg = Milligrams per kilogram
µg/kg = micrograms per kilogram
bold = Exceeds NR 720 Residual Contaminant Levels
NS = No Established Standard

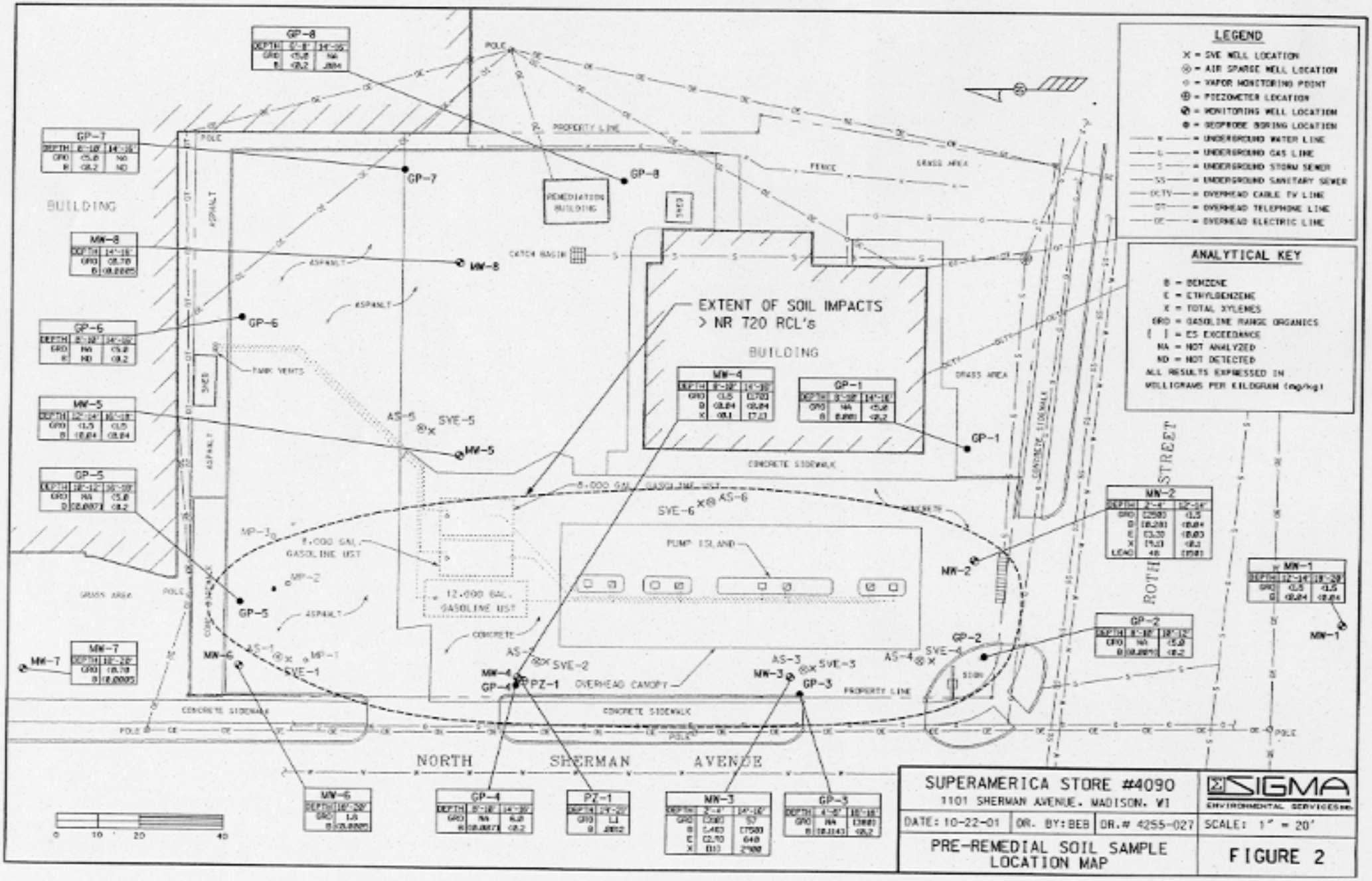

LEGEND
X = SVE WELL LOCATION
= AIR SPARGE WELL LOCATION
= VAPOR MONITORING POINT
= PIEZOMETER LOCATION
= MONITORING WELL LOCATION
= GEOPROBE BORING LOCATION
= UNDERGROUND WATER LINE
= UNDERGROUND GAS LINE
= UNDERGROUND STORM SEWER
= UNDERGROUND SANITARY SEWER
= OVERHEAD CABLE TV LINE
= OVERHEAD TELEPHONE LINE
= OVERHEAD ELECTRIC LINE
ANALYTICAL KEY
B = BENZENE
E = ETHYLBENZENE
X = TOTAL XYLENES
GRO = GASOLINE RANGE ORGANICS
[ ] = ES EXCEEDANCE
NA = NOT ANALYZED
ND = NOT DETECTED
ALL RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)
EXTENT OF SOIL IMPACTS > NR 720 RCL's
BUILDING
REMEDIATION BUILDING
SHED
CATCH BASIN
ASPHALT
PROPERTY LINE
FENCE
GRASS AREA
TANK VENTS
CONCRETE SIDEWALK
8,000 GAL. GASOLINE UST
12,000 GAL. GASOLINE UST
PUMP ISLAND
OVERHEAD CANOPY
SIGN
POLE
ROTH STREET
NORTH SHERMAN AVENUE
GP-1
GP-2
GP-3
GP-4
GP-5
GP-6
GP-7
GP-8
MW-1
MW-2
MW-3
MW-4
MW-5
MW-6
MW-7
MW-8
PZ-1
AS-1
AS-2
AS-3
AS-4
AS-5
AS-6
SVE-1
SVE-2
SVE-3
SVE-4
SVE-5
SVE-6
MP-1
MP-2
0 10 20 40
SUPERAMERICA STORE #4090
1101 SHERMAN AVENUE, MADISON, WI
SIGMA ENVIRONMENTAL SERVICES, Inc.
DATE: 10-22-01
DR. BY: BEB
DR.# 4255-027
SCALE: 1" = 20'
PRE-REMEDIAL SOIL SAMPLE LOCATION MAP
FIGURE 2

TABLE 5

PRODUCT LEVELS PRESENT IN MW-3

SUPERAMERICA STORE #4090

1101 North Sherman Avenue

Madison, Wisconsin

Water Level	Product Level	Product Thickness	Date
16.61	16.15	0.46	01/17/96
14.43	13.46	0.97	03/18/97
17.4	16.45	0.95	03/28/97
15.99	15.87	0.12	08/28/97
16.97	16.61	0.36	12/05/97

All measurements expressed as feet.

TABLE 6
STATIC GROUNDWATER ELEVATION MEASUREMENTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

Well ID	Elevation Top of Casing	Elevation Ground Surface	Water Level	Groundwater Elevation	Date
MW-1	857.98	858.34	13.60	844.38	05/22/95
			13.59	844.39	06/02/95
			13.79	844.19	06/12/95
			14.71	843.27	07/14/95
			15.02	842.96	12/15/95
			14.61	843.37	03/13/96
			14.65	843.33	04/09/96
			14.11	843.87	06/05/96
			14.51	843.47	09/25/96
			15.42	842.56	03/18/97
			15.37	842.61	06/03/97
			14.73	843.25	08/28/97
			15.58	842.40	12/05/97
			12.83	845.15	08/03/98
			14.54	843.44	12/09/98
			15.65	842.33	04/05/99
			13.78	844.20	06/24/99
			15.35	842.63	11/10/99
			16.95	841.03	01/17/00
			15.79	842.19	04/11/00
			11.12	846.86	07/11/00
			13.25	844.73	10/19/00
			14.10	843.88	01/22/01
			12.44	845.54	04/24/01
			12.87	845.11	08/03/01
MW-2	857.76	858.05	13.65	844.11	05/22/95
			13.62	844.14	06/02/95
			13.82	843.94	06/12/95
			14.75	843.01	07/14/95
			15.02	842.74	12/15/95
			14.59	843.17	03/13/96
			14.65	843.11	04/09/96
			14.22	843.54	06/05/96
			14.52	843.24	09/25/96
			15.42	842.34	03/18/97
			15.37	842.39	06/03/97
			14.71	843.05	08/28/97
			15.53	842.23	12/05/97
			12.77	844.99	08/03/98
			14.48	843.28	12/09/98
			15.61	842.15	04/05/99
			13.74	844.02	06/24/99
			15.15	842.61	11/10/99
			16.74	841.02	01/17/00
			15.52	842.24	04/11/00
			13.86	843.90	01/22/01
			12.31	845.45	04/24/01
			12.91	844.85	08/03/01

Key:
Elevations referenced to a USGS benchmark designated 845.60 feet above m.s.l.

TABLE 6
STATIC GROUNDWATER ELEVATION MEASUREMENTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

Well ID	Elevation Top of Casing	Elevation Ground Surface	Water Level	Groundwater Elevation	Date
MW-3	858.60	858.90	14.91	843.69	05/22/95
			14.87	843.73	06/02/95
			15.06	843.54	06/12/95
			16.03	842.57	07/14/95
			16.80	841.80	12/15/95
			15.79	842.81	04/09/96
			16.84	841.76	04/05/99
			16.32	842.28	11/10/99
			16.90	841.70	01/17/00
			16.71	841.89	04/11/00
			12.18	846.42	07/11/00
			14.14	844.46	10/19/00
			14.93	843.67	01/22/01
			13.37	845.23	04/24/01
			14.10	844.50	08/03/01
MW-4	859.54	860.76	16.14	843.40	05/22/95
			16.10	843.44	06/02/95
			16.26	843.28	06/12/95
			17.21	842.33	07/14/95
			16.72	842.82	12/15/95
			14.92	844.62	03/13/96
			16.95	842.59	04/09/96
			16.70	842.84	06/05/96
			16.89	842.65	09/25/96
			17.91	841.63	03/18/97
			17.81	841.73	06/03/97
			17.08	842.46	08/28/97
			17.80	841.74	12/05/97
			15.06	844.48	08/03/98
			16.83	842.71	12/09/98
			18.05	841.49	04/05/99
			16.20	843.34	06/24/99
			17.40	842.14	11/10/99
			18.01	841.53	01/17/00
			17.80	841.74	04/11/00
			13.39	846.15	07/11/00
			15.32	844.22	10/19/00
			16.01	843.53	01/22/01
			14.54	845.00	04/24/01
			15.35	844.19	08/03/01

Key:
Elevations referenced to a USGS benchmark designated 845.60 feet above m.s.l.

TABLE 6
STATIC GROUNDWATER ELEVATION MEASUREMENTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

Well ID	Elevation Top of Casing	Elevation Ground Surface	Water Level	Groundwater Elevation	Date
MW-5	860.12	860.35	16.78	843.34	05/22/95
			16.74	843.38	06/02/95
			16.89	843.23	06/12/95
			17.87	842.25	07/14/95
			17.02	843.10	12/15/95
			17.55	842.57	03/13/96
			17.60	842.52	04/09/96
			17.32	842.80	06/05/96
			17.53	842.59	09/25/96
			18.52	841.60	03/18/97
			18.41	841.71	06/03/97
			17.70	842.42	08/28/97
			18.42	841.70	12/05/97
			15.69	844.43	08/03/98
			17.47	842.65	12/09/98
			18.68	841.44	04/05/99
			16.81	843.31	06/24/99
			18.10	842.02	11/10/99
			18.72	841.40	01/17/00
			16.62	843.50	01/22/01
			15.13	844.99	04/24/01
			15.95	844.17	08/03/01
MW-6	860.85	861.52	18.90	841.95	12/15/95
			18.42	842.43	03/13/96
			18.49	842.36	04/09/96
			18.28	842.57	06/05/96
			18.41	842.44	09/25/96
			19.46	841.39	03/18/97
			18.59	842.26	08/28/97
			19.27	841.58	12/05/97
			16.54	844.31	08/03/98
			18.34	842.51	12/09/98
			19.35	841.50	04/05/99
			17.72	843.13	06/24/99
			18.91	841.94	11/10/99
			19.32	841.53	01/17/00
			19.33	841.52	04/11/00
			14.87	845.98	07/11/00
			16.67	844.18	10/19/00
			15.95	844.90	04/24/01
			16.89	843.96	08/03/01

Key:
Elevations referenced to a USGS benchmark designated 845.60 feet above m.s.l.

TABLE 6
STATIC GROUNDWATER ELEVATION MEASUREMENTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

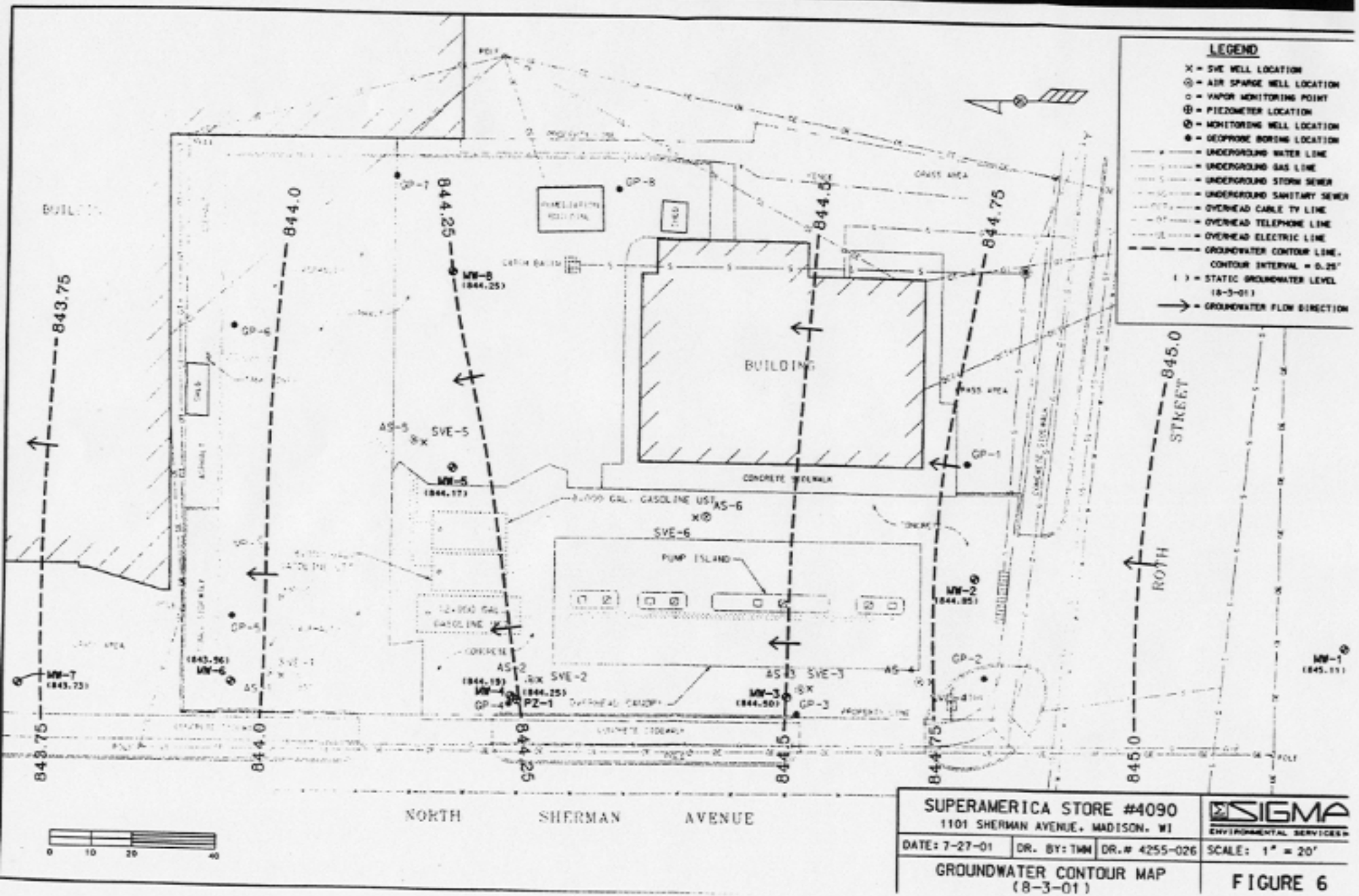
Well ID	Elevation Top of Casing	Elevation Ground Surface	Water Level	Groundwater Elevation	Date
MW-7	862.72	863.13	20.98	841.74	12/15/95
			14.61	848.11	03/13/96
			20.55	842.17	04/09/96
			20.39	842.33	06/05/96
			20.49	842.23	09/25/96
			21.63	841.09	03/18/97
			21.43	841.29	06/03/97
			20.66	842.06	08/28/97
			21.04	841.68	12/05/97
			18.57	844.15	08/03/98
			20.40	842.32	12/09/98
			21.60	841.12	04/05/99
			19.80	842.92	06/24/99
			21.06	841.66	11/10/99
			21.62	841.10	01/17/00
			21.58	841.14	04/11/00
			16.91	845.81	07/11/00
			19.36	843.36	01/22/01
			17.97	844.75	04/24/01
			18.99	843.73	08/03/01
MW-8	859.62	860.11	17.50	842.12	12/15/95
			17.04	842.58	03/13/96
			17.09	842.53	04/09/96
			16.81	842.81	06/05/96
			17.00	842.62	09/25/96
			18.01	841.61	03/18/97
			17.89	841.73	06/03/97
			17.18	842.44	08/28/97
			18.91	840.71	12/05/97
			15.16	844.46	08/03/98
			16.93	842.69	12/09/98
			18.12	841.50	04/05/99
			16.26	843.36	06/24/99
			17.61	842.01	11/10/99
			18.21	841.41	01/17/00
			18.10	841.52	04/11/00
			14.65	844.97	04/24/01
			15.37	844.25	08/03/01

Key:
Elevations referenced to a USGS benchmark designated 845.60 feet above m.s.l.

TABLE 6
STATIC GROUNDWATER ELEVATION MEASUREMENTS
SUPERAMERICA STORE #4090
1101 North Sherman Avenue
Madison, Wisconsin

Well ID	Elevation Top of Casing	Elevation Ground Surface	Water Level	Groundwater Elevation	Date
PZ-1	859.62	860.14	16.86	842.76	12/15/95
			16.99	842.63	03/13/96
			16.76	842.86	06/05/96
			16.95	842.67	09/25/96
			17.96	841.66	03/18/97
			17.86	841.76	06/03/97
			17.13	842.49	08/28/97
			17.83	841.79	12/05/97
			15.12	844.50	08/03/98
			16.88	842.74	12/09/98
			18.08	841.54	04/05/99
			16.22	843.40	06/24/99
			17.35	842.27	11/10/99
			17.15	842.47	01/17/00
			17.19	842.43	04/11/00
			14.55	845.07	04/24/01
			15.37	844.25	08/03/01

Key:
Elevations referenced to a USGS benchmark designated 845.60 feet above m.s.l.



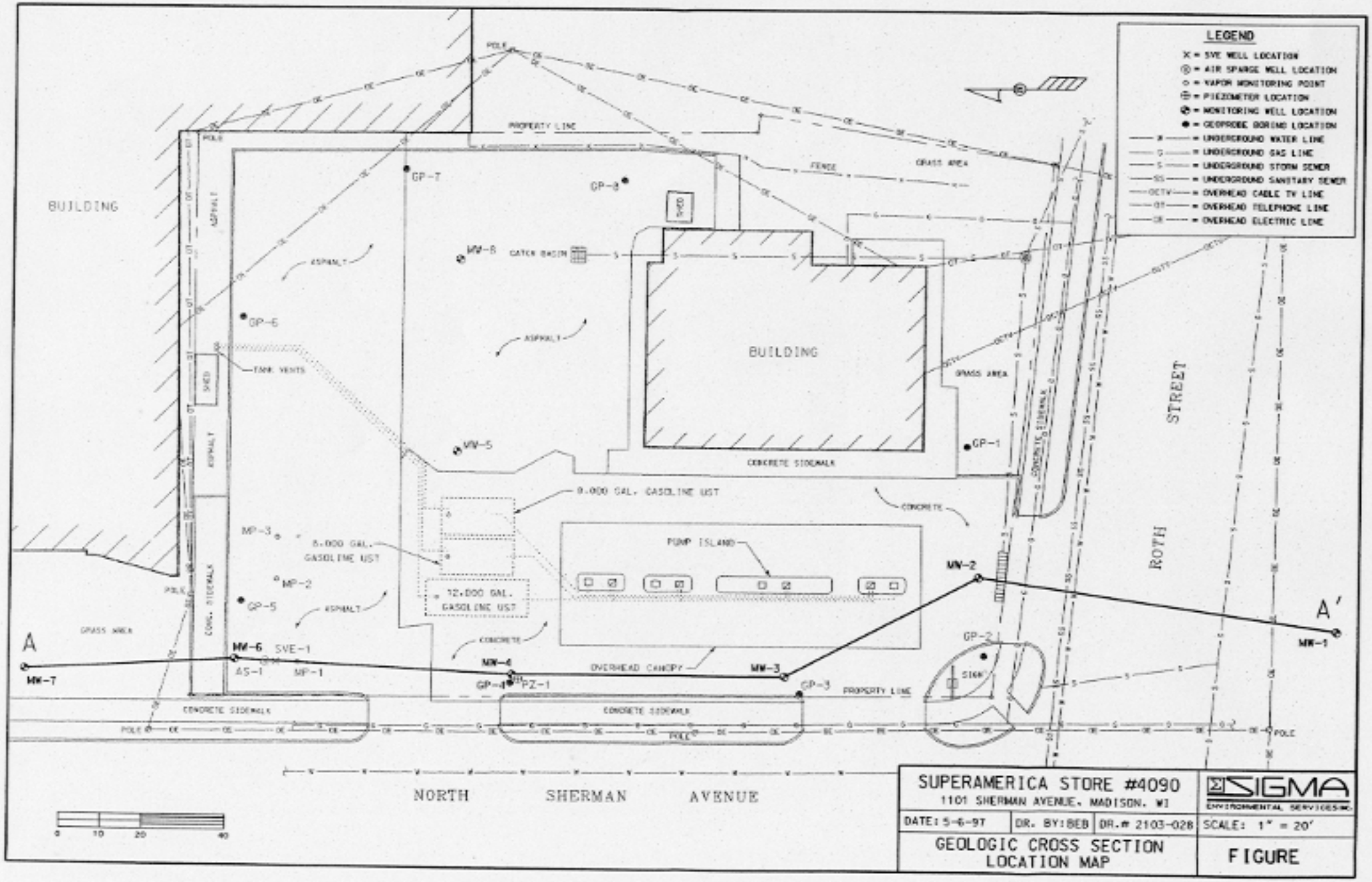
SUPERAMERICA STORE #4090
1101 SHERMAN AVENUE, MADISON, WI

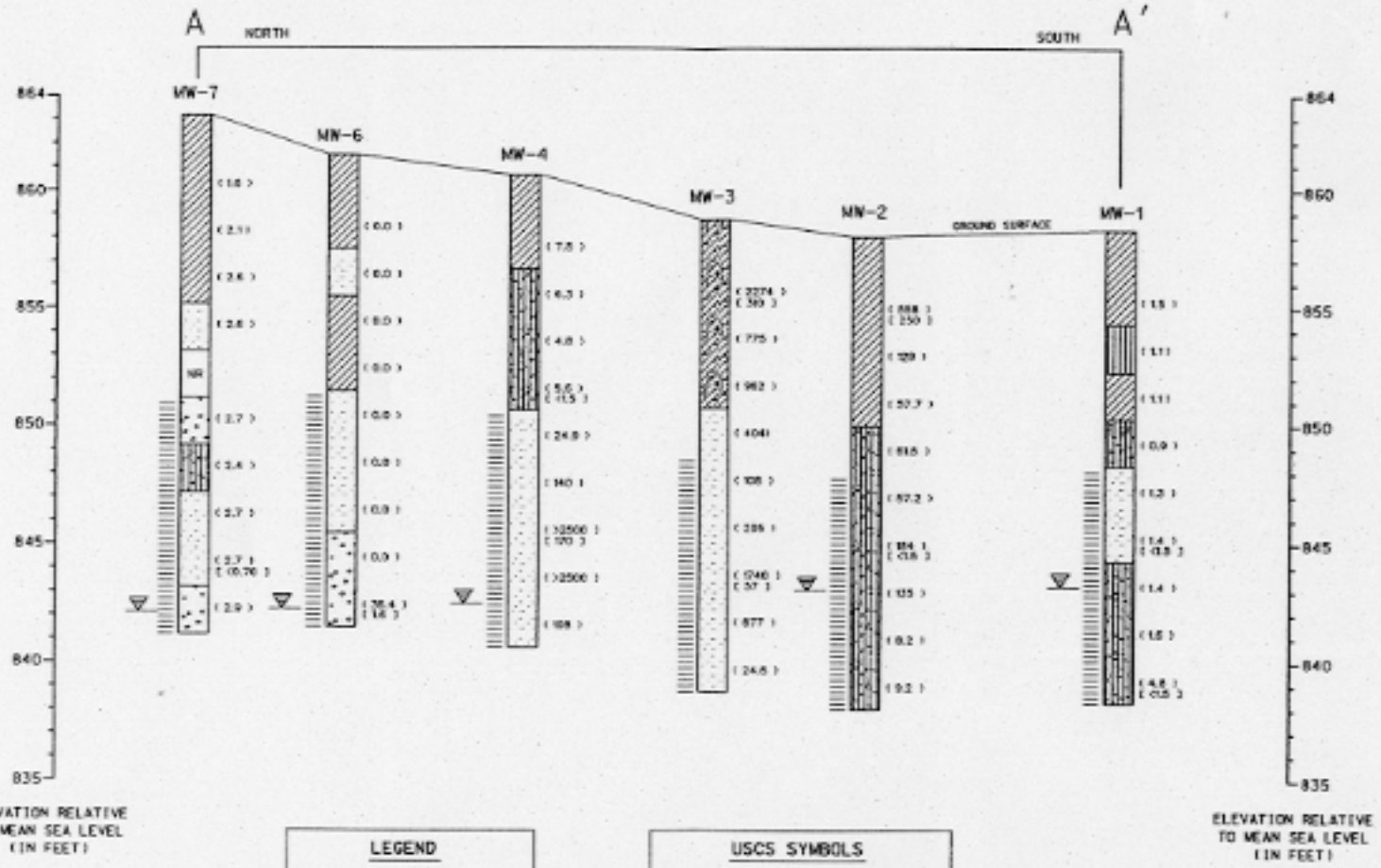
SIGMA ENVIRONMENTAL SERVICES

DATE: 7-27-01	DR. BY: TMM	DR.# 4255-026	SCALE: 1" = 20'

GROUNDWATER CONTOUR MAP
(8-3-01)

FIGURE 6


LEGEND
SVE WELL LOCATION
AIR SPARGE WELL LOCATION
VAPOR MONITORING POINT
PIEZOMETER LOCATION
MONITORING WELL LOCATION
GEOPROBE BORING LOCATION
UNDERGROUND WATER LINE
UNDERGROUND GAS LINE
UNDERGROUND STORM SEWER
UNDERGROUND SANITARY SEWER
OVERHEAD CABLE TV LINE
OVERHEAD TELEPHONE LINE
OVERHEAD ELECTRIC LINE
BUILDING
PROPERTY LINE
FENCE
GRASS AREA
GP-7
GP-8
SHED
MW-8
CATCH BASIN
ASPHALT
GP-6
TANK VENTS
BUILDING
GRASS AREA
MW-5
GP-1
CONCRETE SIDEWALK
9,000 GAL. GASOLINE UST
CONCRETE
MP-3
8,000 GAL. GASOLINE UST
PUMP ISLAND
MW-2
MP-2
12,000 GAL. GASOLINE UST
GP-5
ASPHALT
A
A'
GRASS AREA
MW-6
SVE-1
AS-1
MP-1
MW-4
GP-4
PZ-1
OVERHEAD CANOPY
MW-3
GP-2
SIGN
MW-1
MW-7
GP-3
PROPERTY LINE
CONCRETE SIDEWALK
POLE
NORTH SHERMAN AVENUE
ROTH STREET
0 10 20 40
SUPERAMERICA STORE #4090
1101 SHERMAN AVENUE, MADISON, WI
SIGMA ENVIRONMENTAL SERVICES, INC.
DATE: 5-6-97
DR. BY: BEB
DR.# 2103-028
SCALE: 1" = 20'
GEOLOGIC CROSS SECTION LOCATION MAP
FIGURE



LEGEND

= WELL SCREEN INTERVAL

= STATIC WATER LEVEL

NR = NO RECOVERY

USCS SYMBOLS

SM - SILTY - SANDS, SAND - SILT MIXTURES.

ML = INORGANIC SILTS AND VERY FINE SANDS.

SC = CLAYEY - SANDS, SAND - CLAY MIXTURES.

SP = POORLY GRADED SANDS, LITTLE OR NO FINES.

CL = INORGANIC CLAY OF LOW TO MEDIUM PLASTICITY.

SW = WELL GRADED SANDS, GRAVELY SAND, LITTLE OR NO FINES.

NOTES:
HORIZONTAL SCALE 1" = 40'
VERTICAL SCALE 1" = 5'
( ) = FIELD PHOTOIONIZATION DETECTION RESULTS, EXPRESSED AS INSTRUMENT UNITS AS ISOBUTYLENE (1u).
[ ] = LABORATORY GASOLINE RANGE ORGANIC RESULTS, EXPRESSED AS MILLIGRAMS PER KILOGRAMS (mg/kg).

SUPERAMERICA STORE #4090 1101 SHERMAN AVENUE, MADISON, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 5-6-97	DR. BY: BEB	DR.# 2103-030	SCALE: SEE NOTES
GEOLOGIC CROSS SECTION A - A'			FIGURE

STATEMENT BY RESPONSIBLE PARTY

Speedway-SuperAmerica LLC, the responsible party for the property located at 1101 North Sherman Avenue, Madison, Wisconsin, states that the legal description provided to the Wisconsin Department of Natural Resources (and attached to this statement) for case file reference 03-13-001981 is complete and accurate to the best of our knowledge.

Signature of Representative for Responsible Party

2-19-03
Date

SIGMA
ENVIRONMENTAL SERVICES INC.

220 East Ryan Road
Oak Creek, WI 53154-4533
414-768-7144
FAX: 414-768-7158

April 14, 2003

Project Reference #6733

Mr. Larry Nelson, City Engineer
City of Madison Engineering Department
210 Martin Luther King, Jr. Boulevard Rm. 115
Madison, Wisconsin 53709

MAILED
4-14-03

RE: Notice of Contamination Within Right-of-Way
Speedway SuperAmerica Store # 4090
1101 North Sherman Avenue
Madison, Wisconsin

Dear Mr. Nelson:

On behalf of Speedway SuperAmerica LLC, Sigma Environmental Services, Inc. (Sigma) is notifying the City of Madison Engineering Department regarding the presence of residual petroleum hydrocarbon impacts within the Right-of-Way for the northbound lane of Sherman Avenue and the west bound lane of Roth Street. The Following is a summary of information that must be disclosed according to the Wisconsin Department of Natural Resources.

- County: Dane
- Site name: Speedway SuperAmerica Store #4090
- Site address: 1101 North Sherman Avenue, Madison, WI 53709
- BRRTS #: 03-41-001981
- WDNR FID #: 113249620
- PECFA #: 53703-1619-01
- Owner's name: Speedway SuperAmerica, LLC. (contact: Mr. Keith Hughes)
- Owner's address: P.O. Box 1500, Springfield, Ohio 45501
- Consulting firm: Sigma Environmental Services, Inc.
- Consultant contact: Mark Krueger
- Consultant address: 220 East Ryan Road, Oak Creek, WI 53154
- Consultant phone/fax: (414) 768-7144 / (414) 768-7144
- Consultant email: mkrueger@thesigmagroup.com
- Soil contamination: Yes
- Depth to contaminated soil: Approximately 16 feet below ground surface (bgs)
- Vertical extent of impacted soil: From approximately 2 to 16 feet bgs
- Groundwater contamination: Yes – NR140 Enforcement Standard Exceedances in MW-4, MW-5, MW-6, PZ-1,
- Depth to water table: Approximately 15.10 to 15.58 feet bgs.
- Description of contamination: Benzene, GRO, Ethylbenzene, Xylenes, and Lead, in soil. Benzene, Naphthalene, and Trimethylbenzene, in groundwater.

- Summary of cleanup activities: From May 1995 to April 2001, groundwater was monitored to evaluate natural attenuation as a method to address residual petroleum hydrocarbon impacts. In addition, from November 1999 to January 2000, an air sparge/soil vapor extraction system was run as an additional method to address petroleum impacts. From April 2000 to April 2001, groundwater was again left to natural attenuation.
- Groundwater quality map: Attached, see "Groundwater Quality Map"
- Soil quality map: Attached, see "Soil Quality Map"

The Speedway SuperAmerica Store #4090 site is in the process of obtaining closure by the Wisconsin Department of Natural Resources. As part of the closure process, the SSA property and adjacent properties with soil and groundwater contamination above Wisconsin Administrative Code (WAC), Chapter NR 720 Residual Contaminant Levels (RCLs) and Chapter NR 140 Enforcement Standards (ES), respectively, will be listed in the WDNR's Geographic Information System (GIS) database.

If future construction activities disturb soil within the right-of-way as described above, the excavated soil may be considered a solid waste and require proper disposal. In addition, if future construction activities require dewatering, or if groundwater is to be otherwise extracted in the vicinity of this area, the groundwater should be sampled and managed in compliance with applicable statutes and rules.

If you have any questions or comments, please contact Sigma at (414) 768-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

Aimee Hennings
Staff Geologist

Mark H. Krueger P.H., P.G.
Senior Project Hydrogeologist

Enclosures:
Soil Quality Map
Groundwater Quality Map

cc: Keith Hughes - SSA
Ray Fisher- Madison City Clerk

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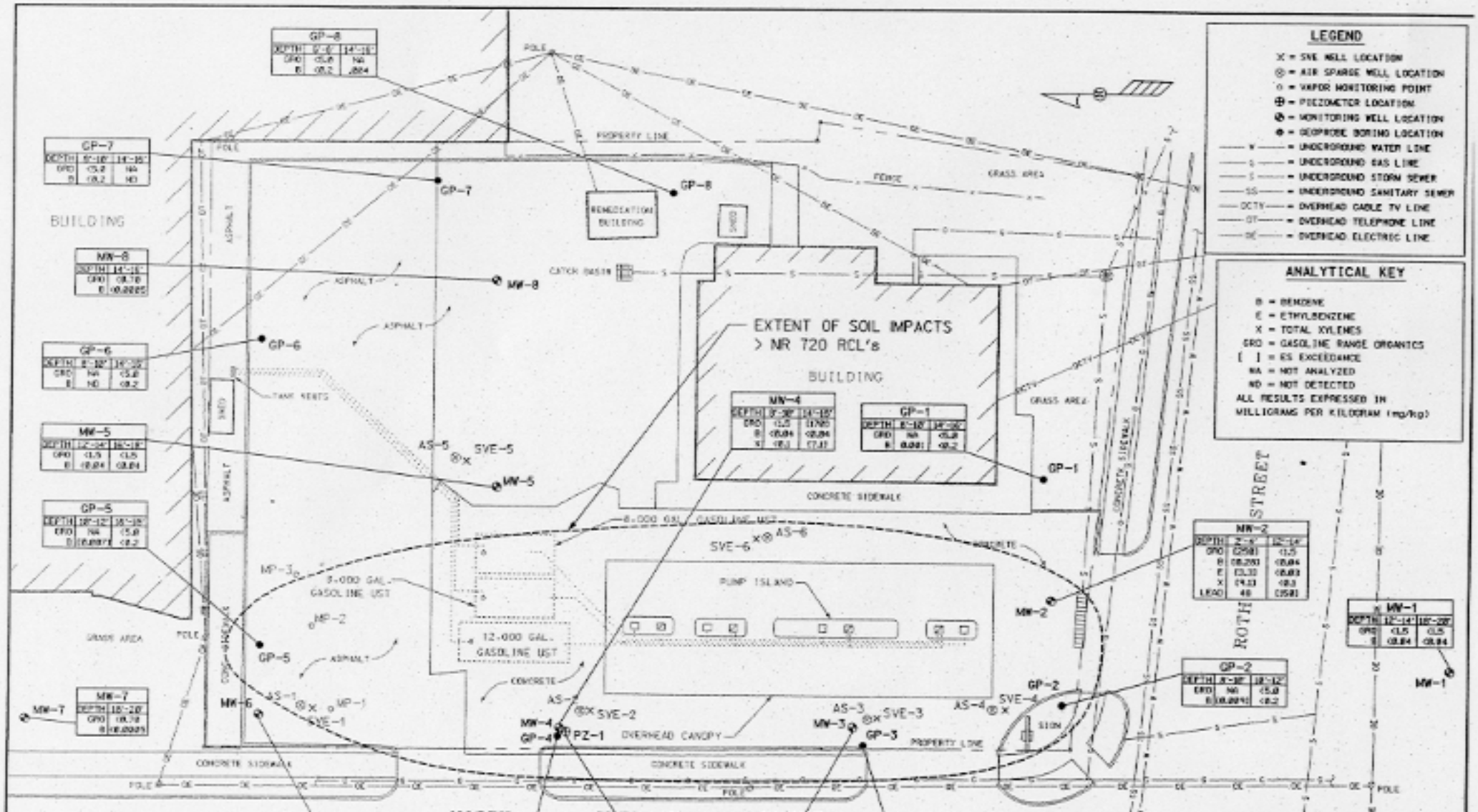


GP-8		
DEPTH	9'-10'	14'-16'
GRO	<5.0	NA
B	<0.2	.004

GP-7		
DEPTH	9'-10'	14'-16'
GRO	<5.0	NA
B	<0.2	ND

MW-8	
DEPTH	14'-16'
GRO	<0.10
B	<0.0005

GP-6		
DEPTH	9'-10'	14'-16'
GRO	NA	<5.0
B	ND	<0.2

MW-5		
DEPTH	12'-14'	16'-18'
GRO	<1.5	<1.5
B	<0.04	<0.04

GP-5		
DEPTH	10'-12'	16'-18'
GRO	NA	<5.0
B	[0.0097]	<0.2

MW-7	
DEPTH	18'-20'
GRO	<0.10
B	<0.0005

MW-6	
DEPTH	18'-20'
GRO	1.6
B	<0.0005

GP-4		
DEPTH	9'-10'	14'-16'
GRO	NA	6.0
B	[0.0007]	<0.2

PZ-1	
DEPTH	19'-21'
GRO	1.1
B	.0012

MW-3		
DEPTH	2'-4'	14'-16'
GRO	[310]	57
B	[.46]	17500
E	[2.70]	640
X	[11]	2900

GP-3		
DEPTH	4'-6'	20'-22'
GRO	NA	[300]
B	[0.014]	<0.2

MW-4		
DEPTH	9'-10'	14'-16'
GRO	<1.5	[1700]
B	<0.04	<0.04
X	<0.1	[7.1]

GP-1		
DEPTH	8'-10'	14'-16'
GRO	NA	<5.0
B	0.001	<0.2

MW-2		
DEPTH	2'-4'	12'-14'
GRO	[250]	<1.5
B	[0.20]	<0.04
E	[1.3]	<0.03
X	[4.3]	<0.3
LEAD	40	[250]

GP-2		
DEPTH	8'-10'	12'-14'
GRO	NA	<5.0
B	[0.0096]	<0.2

MW-1		
DEPTH	12'-14'	18'-20'
GRO	<1.5	<1.5
B	<0.04	<0.04

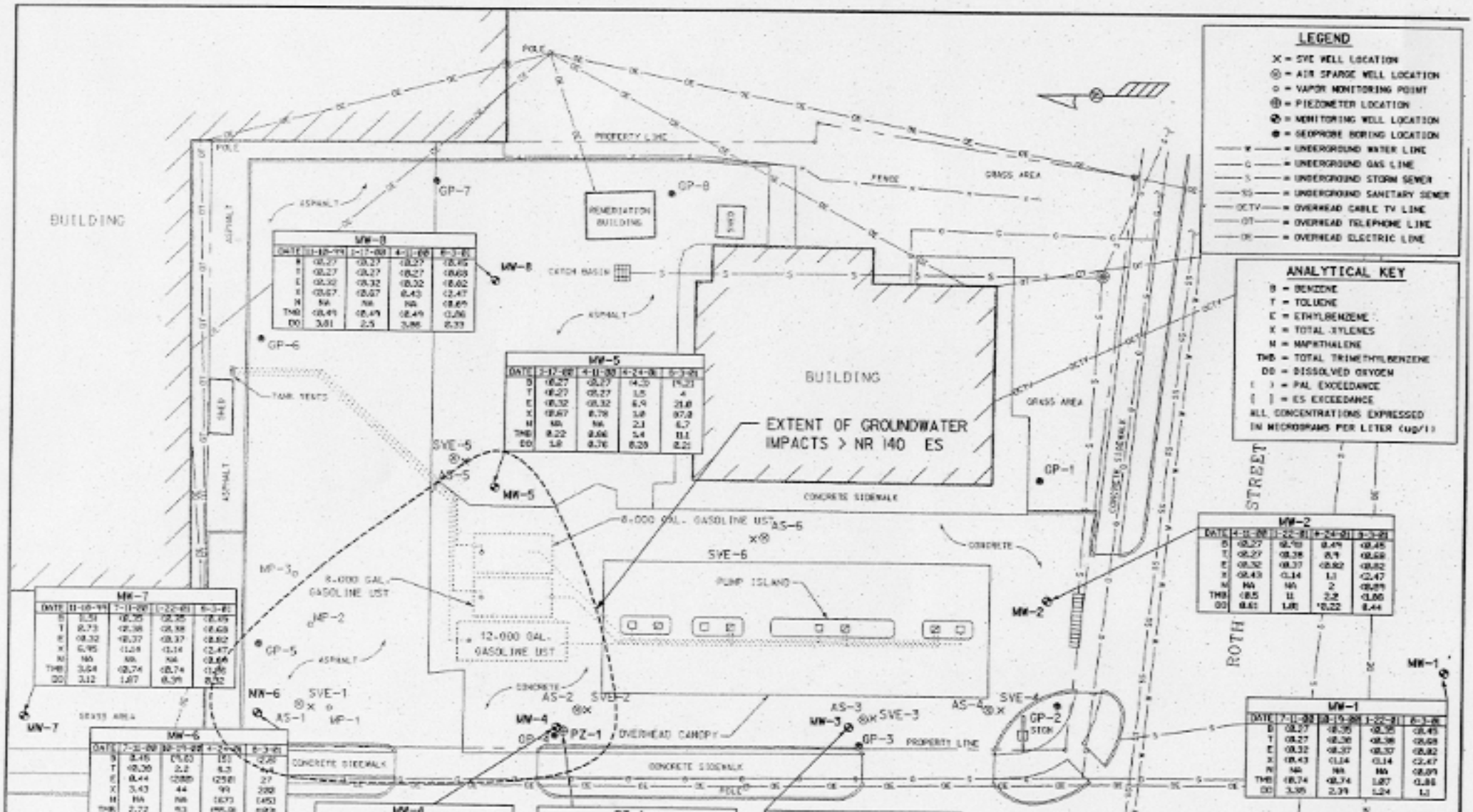
SUPERAMERICA STORE #4090
1101 SHERMAN AVENUE, MADISON, WI

SIGMA ENVIRONMENTAL SERVICES, INC.

DATE: 10-22-01 | DR. BY: BEB | DR.# 4255-027 | SCALE: 1" = 20'

PRE-REMEDIAL SOIL SAMPLE LOCATION MAP

FIGURE 2


LEGEND
X = SVE WELL LOCATION
= AIR SPARGE WELL LOCATION
= VAPOR MONITORING POINT
= PIEZOMETER LOCATION
= MONITORING WELL LOCATION
= GEOPROBE BORING LOCATION
= UNDERGROUND WATER LINE
= UNDERGROUND GAS LINE
= UNDERGROUND STORM SEWER
= UNDERGROUND SANITARY SEWER
= OVERHEAD CABLE TV LINE
= OVERHEAD TELEPHONE LINE
= OVERHEAD ELECTRIC LINE
ANALYTICAL KEY
B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
N = NAPHTHALENE
TMB = TOTAL TRIMETHYLBENZENE
DO = DISSOLVED OXYGEN
( ) = PAL EXCEEDANCE
[ ] = ES EXCEEDANCE
ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (ug/l)
BUILDING
REMEDIATION BUILDING
EXTENT OF GROUNDWATER IMPACTS > NR 140 ES
PROPERTY LINE
FENCE
GRASS AREA
CONCRETE SIDEWALK
PUMP ISLAND
OVERHEAD CANOPY
8,000 GAL. GASOLINE UST
12,000 GAL. GASOLINE UST
ROTH STREET
N. SHERMAN AVENUE
MW-8
MW-5
MW-2
MW-7
MW-6
MW-4
PZ-1
MW-3
MW-1
SVE-1
SVE-2
SVE-3
SVE-4
SVE-5
SVE-6
AS-1
AS-2
AS-3
AS-4
AS-5
AS-6
GP-1
GP-2
GP-3
GP-5
GP-6
GP-7
GP-8
SUPERAMERICA STORE #4090
1101 SHERMAN AVENUE, MADISON, WI
SIGMA ENVIRONMENTAL SERVICES, INC.
DATE: 10-18-01
DR. BY: TMM
DR.# 4255-025
SCALE: 1" = 20'
GROUNDWATER QUALITY MAP FOR PETROLEUM RELATED CONSTITUENTS
FIGURE 5

SIGMA
ENVIRONMENTAL SERVICES INC.

220 East Ryan Road
Oak Creek, WI 53154-4533
414-768-7144
FAX: 414-768-7158

April 14, 2003

Project Reference #6733

MAILED
4-14-03

Mr. Ray Fisher
Madison City Clerk
210 Martin Luther King Jr. Boulevard Room #101
Madison, Wisconsin 53709

RE: Notification of Contamination Within Right-of-Way for 1101 North Sherman Avenue, Madison, Wisconsin.

Dear Mr. Fisher:

Enclosed, please find a copy of the Notification of Contamination within right-of-way letter, which was sent to the City of Madison Director of Engineering, Larry Nelson. Wisconsin Administrative Code, Chapter NR 726.05 (2)(b)(4) requires the Municipal Clerk and Municipal Department responsible for maintaining the street or highway be given written notification of the presence of petroleum impacts within the right-of-way. The attached letter serves as this notification. Please place a copy of this notification in the appropriate files.

If you have any questions or comments regarding this notification, please feel free to contact Sigma at (414) 768-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

Aimee Hennings
Staff Geologist

Mark H. Krueger, P.G, P.H.
Senior Project Hydrogeologist

Enclosure

cc: Keith Hughes – SSA LLC.

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