

GIS REGISTRY INFORMATION

Scanned 4/21/04 SDM

SITE NAME:	Engine House #36			FID #	
BRRTS #:	03-41-000435			(if appropriate):	
COMMERCE # (if appropriate):	53206-1408-09				
CLOSURE DATE:	April 21, 2004				
STREET ADDRESS:	2509 W Capitol Dr				
CITY:	Milwaukee				
SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection):	X =	687250	Y =	292804	
CONTAMINATED MEDIA:	Groundwater	<input type="checkbox"/>	Soil	<input type="checkbox"/>	Both <input checked="" type="checkbox"/>
OFF-SOURCE GW CONTAMINATION >ES:	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
• IF YES, STREET ADDRESS:					
• GPS COORDINATES (meters in WTM91 projection):					
OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	
• IF YES, STREET ADDRESS 1:					
• GPS COORDINATES (meters in WTM91 projection):					
CONTAMINATION IN RIGHT OF WAY:	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
<u>DOCUMENTS NEEDED</u>					
Closure Letter, and any conditional closure letter issued					<input checked="" type="checkbox"/>
Copy of most recent deed, including legal description, for all affected properties					<input checked="" type="checkbox"/>
Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties					<input checked="" type="checkbox"/>
County Parcel ID number, if used for county, for all affected properties					<input checked="" type="checkbox"/>
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.					<input checked="" type="checkbox"/>
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 SSRCLs.					<input checked="" type="checkbox"/>
Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)					<input checked="" type="checkbox"/>
Tables of Latest Soil Analytical Results (no shading or cross-hatching)					<input checked="" type="checkbox"/>
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.					<input checked="" type="checkbox"/>
GW: Table of water level elevations, with sampling dates, and free product noted if present					<input checked="" type="checkbox"/>
GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)					<input checked="" type="checkbox"/>
SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour					<input checked="" type="checkbox"/>
Geologic cross-sections, if required for SI. (8.5x14" if paper copy)					
RP certified statement that legal descriptions are complete and accurate					<input checked="" type="checkbox"/>
Copies of off-source notification letters (if applicable)					<input checked="" type="checkbox"/>
Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)					<input checked="" type="checkbox"/>
Copy of (soil or land use) deed restriction (s) or deed notice if any required as a condition of closure					



ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
Jim Doyle, Governor
Cory L. Nettles, Secretary

April 21, 2004

Mr. Dennis Nelson
City of Milwaukee
Dept. of Public Works
841 N. Broadway, Rm. 602
Milwaukee, WI 53202-3613

RE: **Final Closure**

Commerce # 53206-1408-09 **WDNR BRRTS # 03-41-000435**
Engine House #36, 2509 W. Capitol Dr., Milwaukee

Dear Mr. Nelson:

The Wisconsin Department of Commerce (Commerce) has received all items required as conditions for closure of the site referenced above. This case is now listed as "closed" on the Commerce database and will be included on the Wisconsin Department of Natural Resources (WDNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual soil and groundwater contamination that remains above state standards. It is in your best interest to keep all documentation related to the environmental activities that were conducted.

If residual contamination is encountered in the future, it must be managed in accordance with all applicable state and federal regulations. If it is determined that any remaining contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Thank you for your efforts to bring this case to closure. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5402.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen D. Mueller". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

Stephen D. Mueller
Hydrogeologist
Site Review Section

cc: Mr. Stephen Owens, Sigma Environmental Services, Inc.
Case File

7985942

REGISTER'S OFFICE 1 SS
Milwaukee County, WI

RECORDED AT 4:01 PM

11-06-2000

WALTER R. BARCZAK
REGISTER OF DEEDS

AMOUNT 12.00

Recording Area

WARRANTY DEED
CITY OF MILWAUKEE

Document Number

Name and Return Address:

Peggy J. Hardy
3201 North 40th Street
Milwaukee, WI 53216 (414) 873-6050

Tax Key No.: 270-0301-000-2

This transaction is exempt from the Wisconsin Real Estate Transfer Fee and Transfer Return pursuant to Sec. 77.25 (2) of the Wisconsin Statutes.

THIS INDENTURE, Made this 22nd day of August, 2000, between City of Milwaukee, a municipal corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, located at Milwaukee, Wisconsin, party of the first part, and Peggy J. Hardy, party of the second part.

WITNESSETH, That said party of the first part, for and in consideration of the sum of Sixty-five Thousand Eight Hundred and no/100ths (\$65,800.00) and other good and valuable consideration to it paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, has given, granted, bargained, sold, remised, released, conveyed and confirmed, and by these presents does give, grant, bargain, sell, remise, release, convey and confirm unto the said party of the second part, and assigns forever, the following described real estate, situated in the City of Milwaukee, County of Milwaukee and State of Wisconsin, to-wit:

The West 50 feet of the East 310.84 feet of the South 78 feet of Lot 18, in Freihube's Subdivision, (E C) of the Southwest 1/4 of Section 6 and the Northwest 1/4 of Section 7, Township 7 North, Range 22 East.

Address: 2509 West Capitol Drive

000376560

TOGETHER, with all and singular the hereditaments and appurtenances thereunto belonging or in any wise appertaining; and all the estate, right, title, interest, claim or demand whatsoever of the said party of the first part, either in law or equity, either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

TO HAVE AND TO HOLD the said premises as above described with the hereditaments and appurtenances, unto the said party of the second part, and assigns FOREVER.

AND THE SAID City of Milwaukee, party of the first part, for itself and its successors, does covenant, grant, bargain and agree to and with the said party of the second part, and assigns, that at the time of the ensembling and delivery of these presents it is well seized of the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee simple, and that the same are free and clear from all incumbrances whatever, and that the above bargained premises in the quiet and peaceable possession of the said party of the second part, and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, it will forever WARRANT and DEFEND.

IN WITNESS WHEREOF, the said City of Milwaukee, party of the first part, has caused these presents to be signed by John O. Norquist, its Mayor, and by Ronald D. Leonhardt, its City Clerk, and countersigned by Anita Paretti, its City Comptroller, at Milwaukee, Wisconsin, and its corporate seal to be hereunto affixed, this 22nd day of August, 2000.

Signed and sealed in presence of

Ruth Wytulinski

Katherine H. Mollieca

Walter Debnach

CITY OF MILWAUKEE

By John O. Norquist
John O. Norquist, Mayor

By Ronald D. Leonhardt
Ronald D. Leonhardt City Clerk

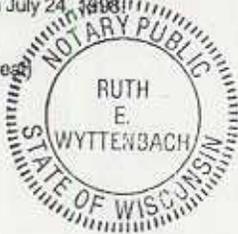
COUNTERSIGNED:

By Anita Paretti
SPECIAL DEPUTY City Comptroller
Anita Paretti

STATE OF WISCONSIN)
) ss.
MILWAUKEE COUNTY)

Personally came before me this 6th day of September, A.D. 2000, Mayor of the above named municipal corporation, to me known to be the person who executed the foregoing instrument and to me known to be such mayor of said municipal corporation, and acknowledged that he executed the foregoing instrument as such officer as the deed of said municipal corporation, by its authority, and pursuant to resolution file No. 980441 adopted by its Common Council on July 24, 1998.

(Notarial Seal)



Ruth E. Wyttenbach
Notary Public, Milwaukee County, Wisconsin
My commission expires 3-4, A.D. 2001

000376561

STATE OF WISCONSIN)
) ss.
MILWAUKEE COUNTY)

Personally came before me this 22nd day of August, A.D. 2000, City Clerk of the above named municipal corporation, to me known to be the person who executed the foregoing instrument and to me known to be such city clerk of said municipal corporation, and acknowledged that he executed the foregoing instrument as such officer as the deed of said municipal corporation, by its authority, and pursuant to resolution file No. 980441 adopted by its Common Council on July 24, 1998.

(Notarial Seal)

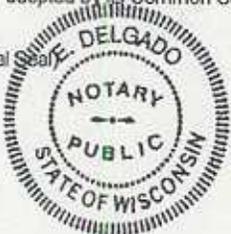


Katherine A. Mellina
Notary Public, Milwaukee County, Wisconsin
My commission expires 2-15, A.D. 2004

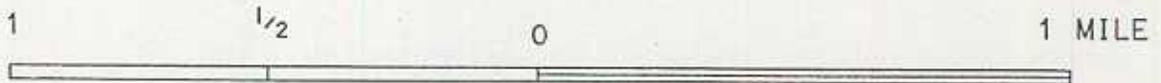
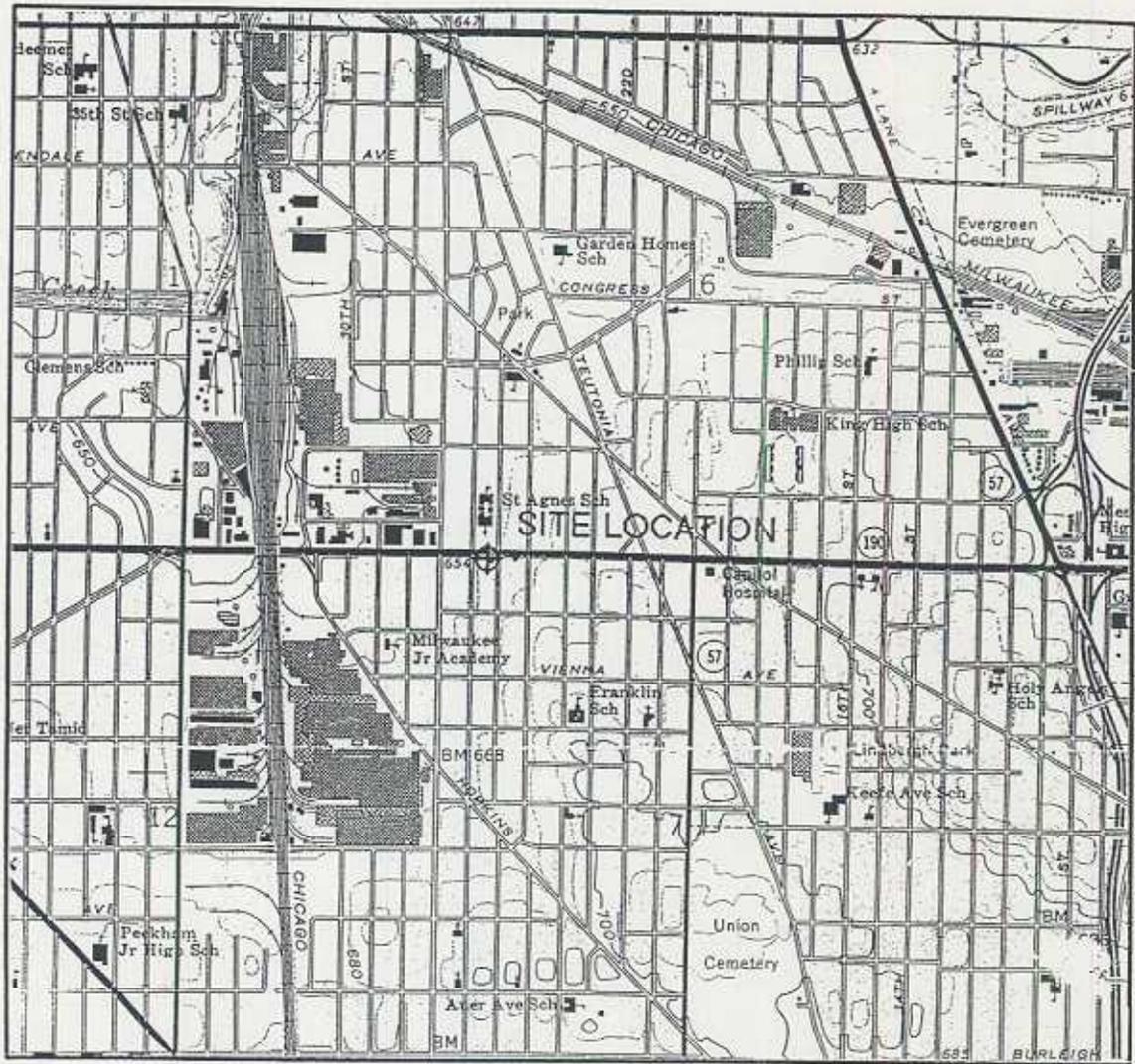
STATE OF WISCONSIN)
) ss.
MILWAUKEE COUNTY)

Personally came before me this 29th day of August, A.D. 2000, Special Deputy Comptroller City Comptroller of the above named municipal corporation, to me known to be the person who executed the foregoing instrument and to me known to be such City Comptroller of said municipal corporation, and acknowledged that _____ executed the foregoing instrument as such officer as the deed of said municipal corporation, by its authority, and pursuant to resolution file No. 980441 adopted by its Common Council on July 24, 1998.

(Notarial Seal)



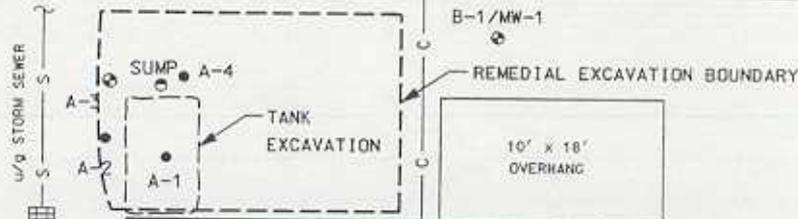
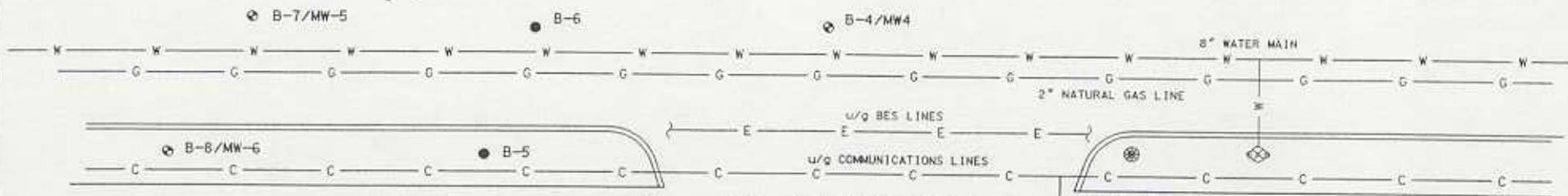
E. Delgado
Notary Public, Milwaukee County, Wisconsin
My commission expires 10-19, A.D. 2003



ADAPTED FROM U.S.G.S. 7.5 MINUTE SERIES, MILWAUKEE, WISCONSIN QUADRANGLE

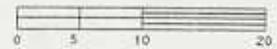
 ENVIRONMENTAL SERVICES INC.	CITY OF MILW. (ENGINE HOUSE #36)		
	2509 W. CAPITOL DR. MILWAUKEE, WI.		
SCALE: SEE ABOVE	APP. BY:	DRAWN BY: BEB	DRAWING NUMBER
DATE: 11-19-92		REV.:	1195-001
FIGURE 1		SITE LOCATION MAP	

W. CAPITOL DR.



LEGEND

- = SUMP LOCATION
- = SOIL BORING LOCATION
- ⊕ = MONITORING WELL LOCATION
- ⊗ = MANHOLE LOCATION
- ⊙ = FIRE HYDRANT LOCATION
- ▣ = CATCH BASIN LOCATION



NOTE:
A-1 - A-4 = SOIL BORINGS AND MONITORING WELLS COMPLETED BY ENVIRONMENTAL ASSOCIATES (6/90).

CITY OF MILWAUKEE - ENGINE HOUSE #36 2509 W. CAPITOL DR., MILWAUKEE, WI			
DATE: 2-11-98	DR. BY: TMM	DR.# 4470-003	
SITE FEATURES MAP			FIGURE 2

Page 2 of 3
TABLE 4
GROUNDWATER ANALYTICAL RESULTS
CITY OF MILWAUKEE
ENGINE HOUSE #36
 Project Reference #4470

Sample Location:	Date:	MW-3								MW-4								MW-5								NR 140 ES	NR 140 PAL
		11/18/1992	07/01/1993	12/02/1997	03/12/1998	06/11/1998	09/02/1998	12/07/1998	03/16/1999	11/18/1992	07/01/1993	12/02/1997	03/12/1998	06/11/1998	09/02/1998	12/07/1998	03/16/1999	07/01/1993	12/02/1997	03/12/1998	06/11/1998	09/02/1998	12/07/1998	03/16/1999			
Parameter	Units																										
Depth to Groundwater	ft btc	6.50	4.98	6.13	5.10	7.35	6.43	8.20	4.86	7.66	6.01	6.11	7.89	7.60	7.95	7.95	7.87	8.81	8.98	8.90	8.86	8.95	8.95	8.70	NS	NS	
Dissolved Lead	µg/l	8.4	2.1	NA	NA	NA	NA	NA	NA	<4.0	NA	NA	NA	NA	NA	NA	<2.0	NA	NA	NA	NA	NA	NA	16	1.3		
GRO	mg/l	<0.1	<0.1	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	0.1	0.14	0.017	0.122	0.117	<0.014	0.031	0.098	2.1	0.673	0.948	0.815	0.669	0.818	1.15	NS		
VOCs																											
Benzene	µg/l	<1.0	<1.0	<0.7	<0.7	<0.4	<0.4	<0.4	<0.4	65	97	8.0	67	31	9.5	4.0	41	83	<5.7	51	8.0	4.7	5.8	49	5	0.5	
Toluene	µg/l	<1.0	<1.0	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<1.0	<2.0	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<1.4	<0.7	<1.4	
Ethylbenzene	µg/l	<1.0	<1.0	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<1.0	<2.0	<0.7	<0.7	0.9	<0.7	<0.7	<0.7	87	<5.6	9.5	<3.3	<0.7	3.1	11	700		
Total Xylenes	µg/l	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	58	<20.1	<2.0	<10.1	<2.0	<2.0	<4.0	10,000		
Methyl Tert Butyl Ether	µg/l	0.4	2.1	1.2	<0.4	<0.4	<0.4	<0.4	<0.4	2.4	NA	<0.4	<0.4	23	<0.4	<0.4	<0.4	<5.0	<3.5	<1.4	<1.9	<0.4	<0.4	<0.7	60		
Trimethylbenzenes	µg/l	<2.0	<2.0	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<2.0	<4.0	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	170	<13.4	<1.4	<5.7	<1.4	7.1	5.8	480		
1,2-Dichloroethane	µg/l	<1.0	NA	<0.3	NA	NA	NA	NA	NA	<1.0	NA	<0.3	NA	NA	NA	NA	<5.0	<0.3	NA	NA	NA	NA	NA	5	0.5		
Naphthalene	µg/l	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	<5.0	6.7	NA	NA	NA	NA	NA	NA	40								
Methyl Chloride	µg/l	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	NA	NA	0	0.5								
iso-Propylbenzene	µg/l	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	23	NA	NA	NA	NA	NA	NA	NA	NS								
n-Propylbenzene	µg/l	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	71	NA	NA	NA	NA	NA	NA	NA	NS								
n-Butylbenzene	µg/l	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	NA	NA	NS								
Dihisopropyl Ether	µg/l	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	NS																
tert-Butylbenzene	µg/l	1.2	NA	1.7	NA	NA	NA	NA	NA	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NS								
sec-Butylbenzene	µg/l	<1.0	NA	<1.0	NA	NA	NA	NA	NA	NA	6.5	NA	NA	NA	NA	NA	NA	NA	NS								
Biological Indicator Parameters																											
Total Organic Carbon	mg/l	NA	NA	17	5.1	1.1	9.0	11	8.7	NA	NA	24	9.5	5.4	14	120	10	NA	239	16	10	90	88	9.7	NS		
Sulfate	mg/l	NA	NA	111	88	39	79	120	72	NA	NA	40	75	<10	41	50	48	NA	16	40	21	27	38	48	NS		
Nitrate	mg/l	NA	NA	<0.4	1.1	0.05	1.1	<0.054	0.4	NA	NA	<0.04	1.3	<0.04	0.035	<0.04	<0.04	NA	<0.04	0.9	<0.04	0.0041	<0.004	<0.04	NS		
Methane	µg/l	NA	NA	450	NA	2000	NA	NA	NA	NA	NA	NA	2300	NA	NA	NA	NA	NA	NS								
Alkalinity	mg/l	NA	NA	370	362	350	364	360	284	NA	NA	330	354	348	360	384	388	NA	372	380	376	398	396	400	NS		
Manganese	mg/l	NA	NA	0.4	0.4	0.7	0.1	0.3	0.3	NA	NA	0.5	0.5	0.5	0.4	0.5	0.5	NA	0.4	0.5	0.5	0.4	0.4	0.4	NS		
Heterotrophic Plate Count 2	CFU/ml	NA	NA	33	NA	27	NA	NA	NA	NA	NA	NA	1500	NA	NA	NA	NA	NA	NS								
Heterotrophic Plate Count 5	CFU/ml	NA	NA	300	NA	300	NA	NA	NA	NA	NA	NA	10,000	NA	NA	NA	NA	NA	NS								
Hydrocarbon Degrading 15	CFU/ml	NA	NA	300	NA	160	NA	NA	NA	NA	NA	NA	6,400	NA	NA	NA	NA	NA	NS								
Field Parameters																											
Dissolved Oxygen	mg/l	NA	NA	0.2	1.47	1.4	1.15	1.93	0.84	NA	NA	0.29	0.27	0.81	0.34	0.23	0.16	NA	0.24	0.33	2.51	3.05	0.29	0.19	NS		
pH		NA	NA	7.2	6.6	6.8	7.4	7.0	7.0	NA	NA	7.1	6.7	6.7	7.4	6.9	7.0	NA	6.9	8.4	6.8	7.4	7.1	7.0	NS		
Temperature	°C	NA	NA	16.5	12.1	14.9	18.8	16.5	11.1	NA	NA	13.1	8.6	13.3	17.4	12.6	6.9	NA	12.8	9	13.5	16.6	12.9	7.8	NS		
Iron (Fe2+)	mg/l	NA	NA	NA	0.0	0.0	0.0	0.0	0.0	NA	NA	0	1	0	1.6	0.0	0.0	NA	NA	NA	0.0	0.4	0.0	0.0	NS		
Redox Potential	mv	NA	NA	26.4	-38.3	65	-36.0	86.0	61.7	NA	NA	-34.1	-63.1	-68.1	-64.7	-83.6	-87.4	NA	-177.4	-206.7	-222.5	-215.9	-208.5	-227.0	NS		

- Notes:
- NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
 - NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit
 - GRO = Gasoline Range Organics
 - Units: ft btc = feet below top of casing
 µg/l = micrograms per liter
 mg/l = milligrams per liter
 CFU/ml = colony forming units per milliliter of groundwater
 °C = temperature measured in degrees Celsius
 mv = millivolts
 - Plate Count 2, 5, 15 = Number of Bacterial Colonies after corresponding days of incubation
 - NS = No Standard
 - NA = Not Analyzed
 - Exceedances:
Bold = concentration exceeds Chapter NR 140 ES
Bold = concentration exceeds Chapter NR 140 PAL
 - Excavation of impacted soil source area occurred on 12/22/97. The groundwater samples collected after this date are post-remedial.
 - Monitoring well A-3 abandoned on 12/22/97 in accordance with NR 141 during site excavation activities.

Page 3 of 3
TABLE 4
GROUNDWATER ANALYTICAL RESULTS
 CITY OF MILWAUKEE
 ENGINE HOUSE #36
 Project Reference #4470

Parameter	Units	Sample Location:											NR 140 ES	NR 140 PAL	
		MW-6						Sump							
Parameter	Units	07/01/1993	12/02/1997	03/12/1998	06/11/1998	06/02/1998	12/07/1998	03/16/1999	03/12/1998	08/11/1998	09/02/1998	12/07/1998	03/16/1999		
Depth to Groundwater	ft b/c	10.74	9.06	6.78	7.39	10.12	9.84	8.80	3.75	4.33	4.87	4.73	4.66	NS	NS
Dissolved Lead	µg/l	2.8	NA	15	1.5										
GRO	mg/l	<0.1	<0.014	<0.014	<0.014	<0.014	<0.014	0.622	0.226	0.235	0.163	0.220	0.299	NS	NS
VOCs															
Benzene	µg/l	<1.0	<0.7	<0.7	<0.4	1.4	<0.4	<0.4	32	44	47	64	31	6	0.5
Toluene	µg/l	<1.0	<0.7	<0.7	<0.7	1.4	<0.7	<0.7	18	15	21	23	17	1,000	200
Ethylbenzene	µg/l	<1.0	<0.7	<0.7	<0.7	1.5	<0.7	<0.7	1.9	4.5	11	8.3	7.1	700	140
Total Xylenes	µg/l	<1.0	<2.0	<2.0	<2.0	1.5	<2.0	<2.0	8.5	<2.0	40.9	31.6	28.8	10,000	1,000
Methyl Tert Butyl Ether	µg/l	<1.0	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	7.2	<0.4	<0.4	<0.4	<0.4	60	12
Trimethylbenzenes	µg/l	<2.0	<1.4	<1.4	<1.4	2.3	<1.4	<1.4	<1.4	<6.7	6.7	6.0	2.8	480	96
1,2-Dichloroethane	µg/l	<1.0	<0.3	NA	5	0.5									
Naphthalene	µg/l	<1.0	NA	40	8										
Methyl Chloride	µg/l	<1.0	NA	5	0.5										
iso-Propylbenzene	µg/l	<1.0	NA	NS	NS										
n-Propylbenzene	µg/l	<1.0	NA	NS	NS										
n-Butylbenzene	µg/l	<1.0	NA	NS	NS										
Di-isopropyl Ether	µg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Tert-Butylbenzene	µg/l	<1.0	NA	NS	NS										
sec-Butylbenzene	µg/l	<1.0	NA	NS	NS										
Biological Indicator Parameters															
Total Organic Carbon	mg/l	NA	25	9.1	3.2	NA	16	4.2	120	46	110	140	120	NS	NS
Sulfate	mg/l	NA	130	262	40	185	284	192	<10	<10	<10	<10	<10	NS	NS
Nitrate	mg/l	NA	<0.04	1.3	<0.04	<0.0041	<0.004	<0.04	8.5	0.9	3.6	1.9	9.8	NS	NS
Methane	µg/l	NA	3.5	NA	NS	NS									
Alkalinity	mg/l	NA	298	364	284	278	324	348	1920	2330	2380	2400	2330	NS	NS
Manganese	mg/l	NA	0.3	0.3	0.3	0.2	0.1	0.2	0.01	<0.009	0.05	0.02	0.02	NS	NS
Heterotrophic Plate Count 2	CFU/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Heterotrophic Plate Count 5	CFU/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Hydrocarbon Degrading 15	CFU/ml	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NS	NS
Field Parameters															
Dissolved Oxygen	mg/l	NA	2.2	4.74	2.4	1.85	4.5	0.8	1.59	1.97	0.33	0.27	10.63	NS	NS
pH		NA	7.2	8.7	7.1	7.1	7.0	7	6.8	7	7.1	7.1	7.0	NS	NS
Temperature	°C	NA	13.6	8.8	12.1	18.0	14.4	9	9.6	13.2	18.7	14.4	8.8	NS	NS
Iron (Fe2+)	mg/l	NA	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS
Redox Potential	mV	NA	-85.4	-70.9	-10.8	68.2	-16.3	-82.0	-242.1	-10.8	-113.8	-154.0	-173.3	NS	NS

Notes:

- NR 140 ES = Wisconsin Administrative Code Chapter NR 140 Enforcement Standard
- NR 140 PAL = Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit
- GRO = Gasoline Range Organics
- Units: ft b/c = feet below top of casing
 µg/l = micrograms per liter
 mg/l = milligrams per liter
 CFU/ml = colony forming units per milliliter of groundwater
 °C = temperature measured in degrees Celsius
 mV = millivolts
- Plate Count 2, 5, 15 = Number of Bacterial Colonies after corresponding days of incubation
- NS = No Standard
- NA = Not Analyzed
- Exceedances:
Bold = concentration exceeds Chapter NR 140 ES
Bold = concentration exceeds Chapter NR 140 PAL
- Excavation of impacted soil source area occurred on 12/22/97. The groundwater samples collected after this date are post-remedial.
- Monitoring well A-3 abandoned on 12/22/97 in accordance with NR 141 during site excavation activities.

Table 3
Remedial Excavation Soil Verification and Transport Sample Analytical Results

City of Milwaukee
 Engine House #36
 2509 West Capitol Drive
 Milwaukee, Wisconsin
 Project # 4470

Parameter	Units	Soil Sample Location/Depth									Chapter NR 720 Guidelines
		NW-1 8'	NW-2 8'	EW-1 8'	SW-1 8'	SW-2 8'	WW-1 8'	Base-1 14'	Base-2 16'	Transport-1 NA	
Benzene	µg/kg	<9.0	<9.0	<9.0	2,320	940	<9.0	<9.0	<9.0	4,370	5.5
1,2-Dichloroethane	µg/kg	<13	<13	<13	<127	<64	<13	<13	<13	--	4.9
Ethylbenzene	µg/kg	172	<4.5	<4.5	13,500	5,300	<4.5	<4.5	<4.5	4,790	2,900
Methyl-tert-butyl ether	µg/kg	<22	<22	<22	<223	<112	<22	<22	<22	<220	NS
Toluene	µg/kg	42	<4.2	<4.2	2,560	763	<4.2	<4.2	<4.2	519	1,500
1,2,4-Trimethylbenzene	µg/kg	416	<9.9	<9.9	21,900	11,800	<9.9	<9.9	<9.9	24,900	NS
1,3,5-Trimethylbenzene	µg/kg	129	<10	<10	6,270	3,430	<10	<10	<10	8,360	NS
Total Xylenes	µg/kg	488	<19	22 ¹	62,900	25,290	<19	<19	<19	28,220	4,100
Gasoline Range Organics	mg/kg	1.7 ¹	<0.65	<0.65	179	88	<0.65	<0.65	<0.65	144	100/250

Key:

- ¹ = The reported result is less than the practical quantitation limit (PQL).
- bold** = Concentration exceeds Chapter NR 720 Soil Cleanup Guideline
- µg/kg = micrograms per kilogram
- mg/kg = milligrams per kilograms
- NS = No Standard Established
- = Not Analyzed
- NA = Not Applicable

W. CAPITOL DR.

DATE	11-92	7-93	12-2-97	3-12-98	6-11-98	9-2-98	12-7-98	3-16-99
GRD	0.30	0.14	0.017	0.122	0.117	0.054	0.031	0.298
B	(0.85)	(0.7)	0.81	0.67	0.31	0.55	4.8	(4)
T	<1.0	<2.0	0.7	0.7	0.7	0.7	0.7	0.7
E	<1.0	<2.0	0.7	0.7	0.9	0.7	0.7	0.7
X	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MTBE	2.4	NA	0.4	0.4	23	0.4	0.4	0.4
TMB	<2.0	4.0	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
L2-DCA	<1.0	NA	0.3	NA	NA	NA	NA	NA

DATE	11-92	7-93	12-2-97	3-12-98	6-11-98	9-2-98	12-7-98	3-16-99
GRD	0.29	0.73	0.106	0.363	0.171	0.074	0.206	0.391
B	0.13	0.51	0.7	0.7	1.5	0.4	0.4	0.4
T	<1	<1	0.7	0.7	0.7	0.7	0.7	0.7
E	12	60	0.7	5.9	7.1	1.5	10	12
X	14.9	2.5	<2.0	2.1	3.4	<2.0	5.9	3.6
MTBE	<1.0	13	0.4	0.4	0.4	0.4	0.4	0.4
TMB	27.3	21	0.7	30	13.9	1.3	20.5	27
L2-DCA	<1.0	NA	0.6	NA	NA	NA	NA	NA

DATE	7-98	7-99
GRD	NA	27
B	(1,400)	(9,300)
T	(2,400)	(3,200)
E	<5	(1,800)
X	6,900	7,600
MTBE	NA	0.6
TMB	NA	(2,200)
L2-DCA	NA	NA

DATE	3-12-98	6-11-98	9-2-98	12-7-98	3-16-99
GRD	0.226	0.046	0.153	0.229	0.299
B	(22)	(44)	(47)	(64)	(31)
T	16	15	21	23	17
E	1.9	4.5	11	0.3	7.1
X	0.5	4.0	40.9	31.6	20.8
MTBE	7.2	<1.0	0.4	0.4	0.4
TMB	<1.4	<5.7	5.7	8.0	2.8
L2-DCA	NA	NA	NA	NA	NA

DATE	7-93	12-2-97	3-12-98	6-11-98	9-2-98	12-7-98	3-16-99
GRD	0.1	0.014	0.014	0.014	0.014	0.014	0.622
B	<1.0	0.7	0.7	0.4	1.4	0.4	0.4
T	<1.0	0.7	0.7	1.4	0.7	0.7	0.7
E	<1.0	0.7	0.7	1.5	0.7	0.7	0.7
X	<1.0	<2.0	<2.0	1.5	<2.0	<2.0	<2.0
MTBE	<1.0	0.4	0.4	0.4	0.4	0.4	0.4
TMB	<2.0	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
L2-DCA	<1.0	0.3	NA	NA	NA	NA	NA

DATE	7-93	12-2-97	3-12-98	6-11-98	9-2-98	12-7-98	3-16-99
GRD	2.1	0.573	0.948	0.015	0.669	0.858	1.15
B	(0.3)	0.7	(0.1)	0.40	4.7	(5.8)	(4.9)
T	26	0.8	0.7	3.4	0.7	0.7	1.4
E	0.7	0.6	0.5	3.3	0.7	3.1	1.1
X	50	<20.1	<2.0	0.1	<2.0	<2.0	<4.0
MTBE	0.5	<3.5	<1.4	<1.0	0.4	0.4	0.7
TMB	170	<13.4	<1.4	0.7	<1.4	7.1	5.8
L2-DCA	0.8	0.3	NA	NA	NA	NA	NA

DATE	11-92	7-93	12-2-97	3-12-98	6-11-98	9-2-98	12-7-98	3-16-99
GRD	2.0	1.6	0.212	0.494	0.232	0.26	0.007	0.194
B	(210)	(450)	(12)	(83)	(26)	(9.9)	(29)	(4)
T	<1.0	0.8	0.7	2.4	1.6	1.0	0.7	1.4
E	50	230	15	43	23	6.2	5.0	12
X	540	100	1.5	1.8	6.0	<2.0	<2.0	<2.0
MTBE	0.8	0.60	0.5	15	3.9	4.3	3.9	2.6
TMB	13	0.8	0.4	12	10.5	2.2	0.7	2.4
L2-DCA	(19)	NA	(9.6)	NA	NA	NA	NA	NA

DATE	11-92	7-93	12-2-97	3-12-98	6-11-98	9-2-98	12-7-98	3-16-99
GRD	0.1	0.014	0.014	0.014	0.014	0.014	0.014	0.014
B	<1.0	<1.0	0.7	0.7	0.4	0.4	0.4	0.4
T	<1.0	<1.0	0.7	0.7	0.7	0.7	0.7	0.7
E	<1.0	<1.0	0.7	0.7	0.7	0.7	0.7	0.7
X	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MTBE	0.4	2.1	1.2	0.4	0.4	0.4	0.4	0.4
TMB	<2.0	<2.0	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4
L2-DCA	0.1	NA	0.3	NA	NA	NA	NA	NA

ANALYTICAL KEY

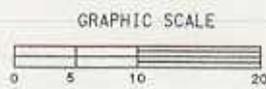
GRD = GASOLINE RANGE ORGANICS
 B = BENZENE
 T = TOLUENE
 E = ETHYLBENZENE
 X = TOTAL XYLENES
 MTBE = METHYL-TERT-BUTYL ETHER
 TMB = TOTAL TRIMETHYLBENZENE
 1,2-DCA = 1,2-DICHLOROETHANE
 [] = CONCENTRATION EXCEEDS NR140 ENFORCEMENT STANDARD

ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (ug/l) EXCEPT FOR GRD WHICH IS EXPRESSED IN MILLIGRAMS PER LITER (mg/l)

LEGEND

- = SUMP LOCATION
- = SOIL BORING LOCATION
- ⊕ = MONITORING WELL LOCATION
- ⊗ = MANHOLE LOCATION
- ⊕ = FIRE HYDRANT LOCATION
- ⊞ = CATCH BASIN LOCATION

NOTE:
 A-1 - A-4 = SOIL BORINGS AND MONITORING WELLS COMPLETED BY ENVIRONMENTAL ASSOCIATES (16/90).



CITY OF MILWAUKEE - ENGINE HOUSE #36
 2509 W. CAPITOL DR., MILWAUKEE, WI

DATE: 6-6-03 DR. BY: BEB DR.# 4470-004 SCALE: 1" = 10'

SIGMA
 ENVIRONMENTAL SERVICES INC.

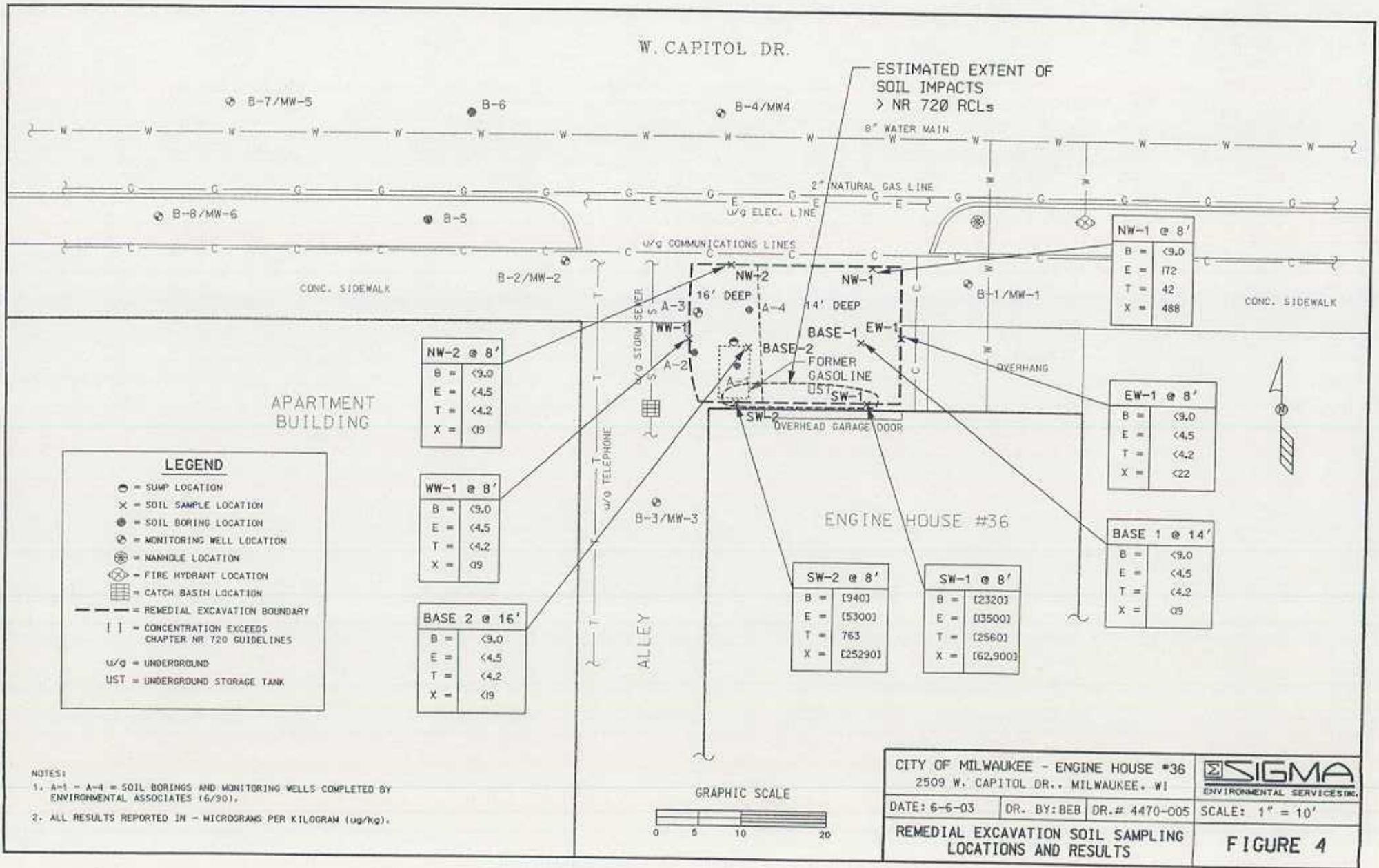
GROUNDWATER QUALITY MAP **FIGURE 6**

**TABLE 1
GROUNDWATER ELEVATIONS**

CITY OF MILWAUKEE
Engine House #36
Project Reference #4470

Monitoring Well	Top of Casing Elevation	Date	Depth to Groundwater	Groundwater Elevation
MW-1	99.74	11/11/1992	5.30	94.44
		11/18/1992	5.30	94.44
		06/18/1993	5.02	94.72
		07/01/1993	5.23	94.51
		12/02/1997	6.30	93.44
		03/12/1998	4.95	94.79
		06/11/1998	7.52	92.22
		09/02/1998	6.00	93.74
		12/07/1998	5.72	94.02
		03/16/1999	5.45	94.29
MW-2	99.14	11/11/1992	4.88	94.26
		11/18/1992	5.93	93.21
		06/18/1993	4.80	94.34
		07/01/1993	5.14	94.00
		12/02/1997	6.44	92.70
		03/12/1998	4.80	94.34
		06/11/1998	7.86	91.28
		09/02/1998	6.67	92.47
		12/07/1998	6.50	92.64
		03/16/1999	5.54	93.60
MW-3	99.32	11/11/1992	6.72	92.60
		11/18/1992	6.50	92.82
		06/18/1993	7.79	91.53
		07/01/1993	4.98	94.34
		12/02/1997	6.13	93.19
		03/12/1998	5.10	94.22
		06/11/1998	7.95	91.37
		09/02/1998	6.43	92.89
		12/07/1998	5.20	94.12
		03/16/1999	4.96	94.36
MW-4	99.35	11/11/1992	7.91	91.44
		11/18/1992	7.96	91.39
		06/18/1993	8.80	90.55
		07/01/1993	8.01	91.34
		12/02/1997	6.11	93.24
		03/12/1998	7.89	91.46
		06/11/1998	7.80	91.55
		09/02/1998	7.95	91.40
		12/07/1998	7.95	91.40
		03/16/1999	7.87	91.48
MW-5	98.00	06/18/1993	8.80	89.20
		07/01/1993	8.81	89.19
		12/02/1997	8.99	89.01
		03/12/1998	8.90	89.10
		06/11/1998	8.86	89.14
		09/02/1998	8.95	89.05
		12/07/1998	8.95	89.05
		03/16/1999	8.70	89.30
MW-6	98.40	06/18/1993	dry	
		07/01/1993	10.74	87.66
		12/02/1997	9.06	89.34
		03/12/1998	6.76	91.64
		06/11/1998	7.39	91.01
		09/02/1998	10.12	88.28
		12/07/1998	9.64	88.76
		03/16/1999	6.80	91.60

Note:
1. Elevations are in feet relative to site benchmark (sanitary sewer cover by MW-1) as surveyed on 7/1/93.



W. CAPITOL DR.

ESTIMATED EXTENT OF SOIL IMPACTS > NR 720 RCLs

LEGEND

- = SUMP LOCATION
- ⊗ = SOIL SAMPLE LOCATION
- = SOIL BORING LOCATION
- ⊕ = MONITORING WELL LOCATION
- ⊗ = MANHOLE LOCATION
- ⊗ = FIRE HYDRANT LOCATION
- ⊗ = CATCH BASIN LOCATION
- - - = REMEDIAL EXCAVATION BOUNDARY
- [] = CONCENTRATION EXCEEDS CHAPTER NR 720 GUIDELINES
- u/g = UNDERGROUND
- UST = UNDERGROUND STORAGE TANK

NW-2 @ 8'

B	<9.0
E	<4.5
T	<4.2
X	<19

WW-1 @ 8'

B	<9.0
E	<4.5
T	<4.2
X	<19

BASE 2 @ 16'

B	<9.0
E	<4.5
T	<4.2
X	<19

NW-1 @ 8'

B	<9.0
E	172
T	42
X	488

EW-1 @ 8'

B	<9.0
E	<4.5
T	<4.2
X	<22

BASE 1 @ 14'

B	<9.0
E	<4.5
T	<4.2
X	<19

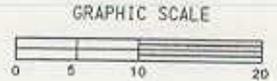
SW-2 @ 8'

B	[940]
E	[5300]
T	763
X	[25290]

SW-1 @ 8'

B	[2320]
E	[3500]
T	[2560]
X	[62,900]

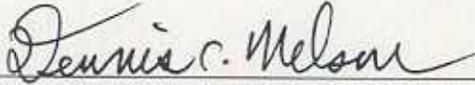
NOTES:
 1. A-1 - A-4 = SOIL BORINGS AND MONITORING WELLS COMPLETED BY ENVIRONMENTAL ASSOCIATES (6/90).
 2. ALL RESULTS REPORTED IN - MICROGRAMS PER KILOGRAM (ug/kg).



CITY OF MILWAUKEE - ENGINE HOUSE #36 2509 W. CAPITOL DR., MILWAUKEE, WI		
DATE: 6-6-03	DR. BY: BEB DR.# 4470-005	
REMEDIAL EXCAVATION SOIL SAMPLING LOCATIONS AND RESULTS		FIGURE 4

STATEMENT BY RESPONSIBLE PARTY

The City of Milwaukee, the responsible party for the property located at 2509 West Capitol Drive, Milwaukee, Wisconsin, states that the legal description provided to the Wisconsin Department of Commerce (and attached to this statement) for case file reference 53206-1408-09 is complete and accurate to the best of our knowledge.



Signature of Representative for Responsible Party

2-11-04

Date

cc: -V. Gupta
G. Kulwicki
D. Nelson
S. Owens (Sigma) ✓

eh36hardy.doc



Department of Public Works
Operations Division
Buildings and Fleet Services

Mariano A. Schifalacqua
Commissioner of Public Works

James P. Purko
Director of Operations

Venu J. Gupta
Buildings & Fleet Services Superintendent

February 12, 2004

Ms. Peggy J. Hardy
3201 North 40th Street
Milwaukee, Wisconsin 53216

Dear Ms. Hardy:

Subject: Site Investigation and Remediation at
Former Engine House #36
2509 West Capitol Drive
Milwaukee, Wisconsin

Sigma Environmental Services on behalf of the City of Milwaukee will be applying for case closure at the above referenced site to the Wisconsin Department of Natural Resources. As part of the case closure requirements, the site must be listed on the State of Wisconsin GIS Registry. Since the groundwater was contaminated while the City of Milwaukee owned the site, neither you or any subsequent owner will be held responsible. The environmental consultant investigating the contamination assures us this contamination is stable and will naturally degrade over time.

For case closure, all properties within the site boundaries where soil contamination exceeds NR 720 Residual Contaminant Levels (RCLS), and groundwater impacts above NR 140 Enforcement Standards (ESs) will be listed on the Department of Natural Resources geographic information system (GIS) Registry of Closed Remediation sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where soil and groundwater contamination, above Chapters NR 720 and NR 140 Enforcement Standards, were found at the time that the case was closed. This GIS Registry will be available to the general public on the Department of Natural Resources internet website.

You are not the responsible party for the petroleum release at the site (that was first detected in November, 1989). Therefore, neither you nor any subsequent owner of your property will be held responsible for investigation or cleanup of this contamination, as long as you and any subsequent owners comply with the requirements of Wisconsin Statutes, Section 292.13, including access to your property for environmental investigation or cleanup if access is required. For further information on the requirements of Wisconsin Statutes, Section 292.13, you may call 1-800-367-6076 for calls originating in Wisconsin, or 608-264-6020 if you are calling from out of state or within the Madison area. You would be responsible for any petroleum release which occurred subsequent to purchasing the property.

Copies of recent soil and groundwater quality tables, as well as soil and groundwater quality maps, are included with this letter for your reference. Residual groundwater impacts are limited to the northwest portion of the site. Groundwater impacts above NR 140 ESs are limited to the on-site sump, and off-site monitoring wells MW-2, MW-4, and MW-5 also. Residual soil impacts are located within the excavated area on-site. Contaminant concentration trends in the groundwater samples collected from the above referenced wells indicate that the contaminant plume is stable or decreasing.

February 12, 2004

Furthermore, geochemical data and in situ groundwater measurements indicate that natural attenuation will continue to degrade the residual contaminants over time. The City of Milwaukee and Sigma Environmental believe allowing natural attenuation to complete the cleanup at this site will meet the requirements for case and closure that are found WAC, Chapters NR 726 and NR 746.

As an affected property owner, you have a right to contact the Wisconsin Department of Commerce (COMM) within 30 days of the date of this letter to provide technical information that you may have that indicates that final closure should not be granted for the site. If you would like to submit any information to COMM that is relevant to this closure request, you should mail that information to: Mr. Ralph Smith at the Wisconsin Department of Commerce, P. O. Box 8044, Madison, Wisconsin 53708-8044.

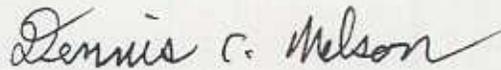
If future construction activities disturb impacted soil at the site as described above, the excavated soil may be considered a solid waste and require proper disposal. In addition, if future construction activities require dewatering, or if groundwater is to be otherwise extracted from or adjacent to the site, the groundwater should be sampled and managed in compliance with applicable statutes and rules.

Should you or any subsequent property owner wish to construct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on your property in the future will first need to call Digger's Hotline (1-800-242-8511) if your property is located outside the service area of a municipally-owned water system, or contact the Drinking Water Program within the Department of Natural Resources if your property is located within the designated service area of a municipally-owned water system to determine if there is a need for special well construction standards.

Once COMM makes a decision on the final closure request, it will be documented in a letter. If COMM grants final closure, you may obtain a copy of the letter by contacting COMM, by writing to COMM at the address given above, or by accessing the WDNR GIS Registry on the internet at www.dnr.state.wi.org/at/et/geo/gwur. A copy of the closure letter will be included as part of the site file on the GIS Registry.

If you need more information, you may contact me at (414) 286-3295 or at the City of Milwaukee Department of Public Works, Buildings and Fleet Services, 841 North Broadway, Room 602, Milwaukee, Wisconsin 53202.

Sincerely,



DENNIS C. NELSON, Project Manager
Buildings and Fleet Services

Enclosures

DN/mbm

February 27, 2001

Project Reference #4470

Mr. Jeffrey S. Polenske
City Engineer
City of Milwaukee
620 North Broadway
Room 620
Milwaukee, WI 53202

MAILED

2/28/01

RE: **Notification of Contamination**
Capitol Drive Right-of-Way near
City of Milwaukee - Engine House #36
2509 West Capitol Drive
Milwaukee, Wisconsin
BRRTS #03-41-000435
FID #241404900

Dear Mr. Polenske:

In a letter dated February 9, 2001, the Wisconsin Department of Commerce (COMM), required that the City of Milwaukee and the Wisconsin Department of Transportation (DOT) be notified of petroleum contaminated groundwater in the right-of-way of Capitol Drive (State Highway 190) as a condition of site closure for the City of Milwaukee Engine House #36. The site, which is located at 2509 West Capitol Drive in Milwaukee, was formerly used to house City of Milwaukee Fire Department fire fighters and their equipment. Investigative and remedial activities were conducted as a result of a release from a gasoline underground storage tank (UST) previously located on the property.

Review of the most recent groundwater analytical results (for samples collected March 16, 1999) indicated that benzene was detected at concentrations exceeding its Wisconsin Administrative Code (WAC) NR 140 Enforcement Standard in off-site monitoring wells MW-2, MW-4, and MW-5. The latter two wells are located in Capitol Drive, while MW-2 is located in the sidewalk just west of former Engine Hose #36. A map depicting the location of the monitoring wells and the groundwater quality results is attached. All of the monitoring wells will be abandoned in accordance with WAC NR 141 as one of the conditions of site closure.

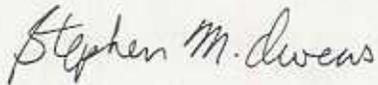


City of Milwaukee, City Engineer
February 27, 2001
Page 2

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

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.



Stephen M. Owens, P.G.
Project Hydrogeologist



Randy E. Boness, P.G.
Geosciences Group Leader

Enclosure

cc: Mr. Venu J. Gupta, City of Milwaukee
Mr. Dennis C. Nelson, City of Milwaukee
Mr. Ralph N. Smith, Wisconsin Department of Commerce

January 23, 2003

Project Reference #7530/009

Ron Leonhardt, City Clerk
City of Milwaukee
200 East Wells Street # 205
Milwaukee, Wisconsin 53202-3570

**RE: Notice of Residual Petroleum Impacts
Within Public Street and Right-of-Way
Former City of Milwaukee Engine House #36
2509 West Capitol Drive, Milwaukee, Wisconsin**

Dear Mr. Leonhardt:

Enclosed, please find a copy of the Notification of Contamination within roadway and right-of-way letter, which was sent to the City of Milwaukee Engineer, Mr. Jeffrey Polenske. 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

Stephen M. Owens, P.G.
Project Hydrogeologist

Enclosure

February 27, 2001

Project Reference #4470

Mr. Mike Cape
Wisconsin Department of Transportation
District 2
141 NW Barstow Street
P.O. Box 798
Waukesha, WI 53187-0798

MAILED
2/28/01

RE: Notification of Contamination in the Right-of-Way
State Highway 109 / Capitol Drive near
City of Milwaukee - Engine House #36
2509 West Capitol Drive
Milwaukee, Wisconsin
BRRTS #03-41-000435
FID #241404900

Dear Mr. Cape:

On behalf of the City of Milwaukee, Sigma Environmental Services, Inc. is providing you with notification of petroleum contaminated groundwater in the right-of-way of State Highway 190 (Capitol Drive) near 2509 West Capitol Drive in Milwaukee, Wisconsin. In a letter dated February 9, 2001, the Wisconsin Department of Commerce, required that the Wisconsin Department of Transportation be notified of petroleum contaminated groundwater in the right-of-way as a condition of site closure for the City of Milwaukee Engine House #36. The site, which is located at 2509 West Capitol Drive in Milwaukee, was formerly used to house City of Milwaukee Fire Department fire fighters and their equipment. Investigative and remedial activities were conducted as a result of a release from a gasoline underground storage tank previously located on the property.

Review of the most recent analytical results (for groundwater samples collected March 16, 1999) indicated that benzene was detected at concentrations exceeding its Wisconsin Administrative Code (WAC) NR 140 Enforcement Standard in off-site monitoring wells MW-2, MW-4, and MW-5. The latter two wells are located beneath Capitol Drive. A map depicting the location of the monitoring wells and the groundwater quality results is attached. All of the monitoring wells will be abandoned in accordance with WAC NR 141 as one of the conditions of site closure.

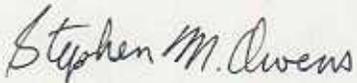


Wisconsin Department of Transportation
February 27, 2001
Page 2

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

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.



Stephen M. Owens, P.G.
Project Hydrogeologist



Randy E. Boness, P.G.
Geosciences Group Leader

Enclosure

cc: Mr. Venu J. Gupta, City of Milwaukee
Mr. Dennis C. Nelson, City of Milwaukee
Mr. Ralph Smith, Wisconsin Department of Commerce