SIGMA
ENVIRONMENTAL SERVICES INC.

220 East Ryan Road
Oak Creek, WI 53154-4533
414-768-7144
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October 29, 2001

Project Reference #6953
BRRTS #02-41-280594
FID #341041470

occ. B

Ms. Jennifer Skinner
Wisconsin Department of Commerce
101 West Pleasant Street
Suite 100A
Milwaukee, WI 53212-3963

Re: **CASE CLOSURE REQUEST**
VA Medical Center - Building #43
5000 West National Avenue
Milwaukee, WI

Dear Ms. Skinner:

This letter report and request for case closure status has been prepared and submitted to the Wisconsin Department of Commerce (COMM) for closure review in response to a petroleum hydrocarbon release associated with a 2000-gallon diesel underground storage tank (UST) that was reported for the above referenced site on September 14, 2001. It is requested, upon receipt of this document, that COMM review this case in consideration of granting closure status and provide a written decision on the COMM closure determination.

INTRODUCTION

Sigma Environmental Services, Inc. (Sigma) was retained by the VA Medical Center to conduct a subsurface environmental investigation at a parcel of property located in the northeast ¼ of the southwest ¼ of Section 35, Township 7 North, Range 21 East, Milwaukee County, Wisconsin. More specifically the site is located at 5000 West National Avenue, in the City of Milwaukee, Wisconsin. A site location map and site plan map are included as Figures 1 and 2, respectfully. The objective of the subsurface investigation was to define the degree and extent of diesel petroleum hydrocarbon impacts to soil and groundwater as a result of a UST overfill spill.

All activities completed during the subsurface investigation were implemented under the supervision of a Sigma professional project team. In accordance with Wisconsin Administrative Code (WAC) NR 712.07, professional engineer and hydrogeologist certifications have been provided with this document.

General Discussion. During routine tank maintenance in early August 2001, is was observed that a cap for a monitoring point located in a vaulted area directly above and on the tank was off and diesel product was present at the top of the monitoring point. Further investigation indicated that the tank had apparently been over filled at a prior date in the year and that due to the increased temperature of the surrounding ground as a result of the summer season, the product in the tank had expanded, popped the cap off the monitoring point, and subsequently spilled over the side of the monitoring point and onto the ground within the vaulted area. Upon discovery of the product spill, product was immediately removed from the tank to a normal level.

A limited investigation into reconciling tank contents and calculation of product expansion properties was performed to determine if the spill constituted a de minimis release. During this evaluation, Sigma was contracted to provide environmental consulting services including subsurface investigation and site remediation activities. It was determined, upon completion of product reconciliation activities, product expansion calculations, and site remediation and investigation activities, that although the release appeared to be limited the exact amount for a determination on a de mimimis release could not be made and therefore a release was subsequently report to the Wisconsin Department of Natural Resources.

Scope of Work. The investigative and remediation activities performed by Sigma include the following:

- Site remediation by manually excavating identified petroleum impacted soil in the vaulted area in the immediate vicinity of the tank monitoring point where the overfill spill occurred. Excavated petroleum hydrocarbon impacted soil was transported off-site for proper disposal.

- The advancement of two Geoprobe® soil borings (GP-1 and GP-2), and the collection of soil samples to determine soil quality adjacent to the UST; and

- The collection of two rounds of groundwater quality data from the existing three UST release monitoring points on the site.

INVESTIGATIVE AND REMEDIATION PROCEDURES

On August 14 2001, Sigma personnel manually excavated soil around the tank monitoring point that exhibited obvious signs of petroleum contamination (odor, staining, etc.). Soil excavation was limited to the vaulted area surrounding the tank monitoring point down to the depth of the top of the tank which was approximately four feet belowground surface. The diesel impacted soil was excavated, containerized in one 55-gallon steel Wisconsin Department of Transportation (DOT) approved drum , and temporally staged on-site pending proper disposal. On October 26, 2001, all excavated impacted soil was disposed of at the Waste Management, Inc. Orchard Ridge RDF under profile number BIO467776. Presented as Appendix A is a copy of the soil profile and manifest ticket.

Following soil remediation activities, Sigma advanced two Geoprobe® soil borings adjacent to the UST and spill area to determine the nature and extent of petroleum hydrocarbon impacts to shallow soil as a result of the overfill. The locations of the borings are depicted on the site plan map (Figure 2). Continuous soil samples were collected from each boring and classified in accordance with the Unified Soil Classification System (USCS). Two soil samples from each boring were submitted for analysis of Wisconsin Modified Method Diesel Range Organic Compounds (DRO). The grain size, moisture content, plasticity, and color description of the soil encountered during drilling activities are included on the Soil Boring Log Information Forms (Form 4400-122) provided as Appendix B. Borehole Abandonment Forms (Form 3300-5B) are presented as Appendix C.

Upon completion of soil boring activities, the three tank monitoring points identified as MW-1 through MW-3 (See Figure 2) were developed in accordance with NR 141 requirements by alternatively surging and purging the monitoring point to remove sediment. Immediately following development, groundwater samples were collected from the monitoring points and submitted for analysis of DRO, EPA Method 8021 Volatile Organic Compounds (VOCs), and EPA Method Polynuclear Aromatic Hydrocarbons (PAH).

On September 7, 2001, following monitoring point purging activities, as second round of groundwater samples were collected from tank monitoring points MW-1 through MW-3 and submitted for analysis of PAH. Monitoring point development and purge water generated from the two sampling events was place in a DOT approved 55-gallon drums and taken to Port Washington publically owned treatment works (POTW) for proper disposal. Monitoring Point Sampling Forms are presented as Appendix D.

REMEDIATION AND INVESTIGATIVE RESULTS

Subsurface soil encountered at the site during borehole advancement consisted of approximately six inches of top soil resting upon approximately a foot of sandy silt that transgressed into a brown silty clay/clayey silt with trace small gravel to boring termination at approximately ten feet below ground surface (bgs). Detailed lithologic descriptions are presented on the soil boring log forms (Appendix B).

The static water level at each monitoring point was measured during each groundwater sampling event. Shallow groundwater on-site is present between 4.75 and 6.29 feet bgs based on the September 7, 2001 sampling data. Based on a review of the local topography and nearby groundwater flow directions established in association with other on-site projects, shallow groundwater flow is to the south southeast with a hydraulic gradient of approximately 0.01 feet per foot (ft/ft).

Hydraulic conductivity slug testing was not performed at the site. However, published hydraulic conductivity values for clayey silt/silty clay with gravels and sand are 10^{-4} to 10^{-6} centimeters per second (cm/sec) [Fetter 1988]. Based on the recharge information observed during monitoring point development and purging, Sigma estimates that surrounding geologic medial would exhibit a hydraulic conductivity value that ranges from 10^{-4} to 10^{-6} cm/sec consistent with published values.

Based on a review of the laboratory analytical results, concentrations of DRO were <u>not</u> detected above generic Chapter NR 720 Wis. Adm. Code (NR 720) residual contaminant levels (RCL) in the soil samples collected and submitted for analysis from Geoprobe® soil borings GP-1 and GP-2. DRO was detected at an elevated concentration in the soil that was remediated through excavation and removed from the site for off-site disposal. A summary of the soil analytical results is presented in Table 1. A soil quality map is included as Figure 3. The soil laboratory reports are included as Appendix E.

Based on a review of the groundwater analytical results, only benzo(a)pyrene and/or chrysene were detected above Chapter NR 140 Wis. Adm. Code Chapter (NR 140) Enforcement

Standards (ES) in groundwater monitoring points MW-1 through MW-3 during the August 8, 2001 sampling event. Benzo(a)pyrene was detected at a concentration of 0.847 micrograms per liter (ug/l) while the detected concentration of chrysene ranged from 3.9 to 18.90 ug/l. During the subsequent September 7, 2001 sampling event, no petroleum hydrocarbon analytes including benzo(a)pyrene and chrysene were detected above established NR 140 enforcement standards. A summary of the groundwater analytical results is presented in Table 2. A groundwater quality map is included as Figure 4. The groundwater laboratory reports and chain-of-custody are presented as Appendix F.

EVALUATION OF CHAPTER COMM 46 RISK SCREENING CRITERIA

In accordance with COMM 46, the site was assessed to determine whether the site met the following risk criteria;

- None of the following environmental factors are present at the site:

  1) Documented expansion of plume margin
  2) Verified contaminant concentrations in a private or public potable well that exceeds established preventive action limits
  3) Contamination within bedrock or within 1 meter of bedrock
  4) Petroleum product that is not in the dissolved phase (floating product) is present with a thickness of 0.01 feet or more and verified by more than one sampling event
  5) Documented contamination discharges to a surface water or wetland;

- No soil contamination is present at the site that exceeds the soil screening levels in Section COMM 46.06 Table 1.

- No soil exists within four feet of the ground surface that exceeds the direct contact soil concentrations listed in Section COMM 46.06 Table 2. Any impacted soil that may have existed within four feet of the ground surface was addressed through remedial excavation activities performed at the site.

- For substances not listed in Table 2 that are present within four feet of the ground surface and have been approved by the agency with administrative authority for the site as contaminants of concern as defined in s. NR 720.03 (2), any potential human health risk from direct contact has been addressed by the lack of any other identified impacts.

- There is no evidence of migration of petroleum product contamination within a utility corridor or within a permeable material or soil along which vapors, free product or contaminated water may flow.

- There is no evidence of migration or imminent migration of petroleum product contamination to building foundation drain tile, sumps or other points of entry into a basement or other enclosed structure where petroleum vapors could

collect and create odors or an adverse impact on indoor air quality or where the contaminants may pose an explosion hazard.

- No enforcement standard is attained or exceeded in any groundwater within 1000 feet of a well operated by a public utility or within 100 feet of any other well used to provide water for human consumption.

As presented in this report, each of the risk criteria for case closure have been met at the site.

INVESTIGATIVE SUMMARY AND CONCLUSIONS

The results of the over fill spill remediation and investigation are summarized below:

- Soil impacted by the over fill spill which was limited to the vaulted area surrounding the tank monitoring point down to the depth of the top of the tank which was approximately four feet belowground surface was excavated, containerized, and removed from the site for proper disposal.

- Shallow groundwater on-site is present between 4.75 and 6.29 feet bgs based on the September 7, 2001 sampling data. Based on a review of the local topography and nearby groundwater flow directions established in association with other on-site projects, shallow groundwater flow is to the south southeast with a hydraulic gradient of approximately 0.01 ft/ft.

- DRO contamination was <u>not</u> detected above generic Chapter NR 720 Wis. Adm. Code (NR 720) residual contaminant levels (RCL) in the soil samples collected and submitted for analysis from Geoprobe® soil borings GP-1 and GP-2.

- Only benzo(a)pyrene and/or chrysene were detected above Chapter NR 140 Wis. Adm. Code Chapter (NR 140) Enforcement Standards (ES) in groundwater monitoring points MW-1 through MW-3 during the August 8, 2001 sampling event. During the subsequent September 7, 2001 sampling event, <u>no</u> petroleum hydrocarbon analytes including benzo(a)pyrene and chrysene were detected above established NR 140 enforcement standards. No other petroleum hydrocarbon related analytes were detected in groundwater samples collected at concentrations above established enforcement standards.

It is Sigma's opinion that due to:

1) No COMM 47 environmental factors being present at the site,

2) COMM 46 risk criteria having been met,

3) The diesel impacted soil within the vaulted monitoring point area having been remediated through excavation and off-site disposal,

4) The lack of detections of petroleum hydrocarbon impacts to soil above NR 720 RCLs,

5) The limited on-site defined extent of petroleum hydrocarbon compounds in groundwater above established NR 140 ES and lack of detections above NR 140 ES during the last round of groundwater monitoring, and

6) The likely presence of natural attenuation of residual petroleum hydrocarbon impacts in groundwater through biodegradation,

that case closure status is warranted for this site. **Therefore, it is requested that COMM review this project in consideration of granting closure status.**

LIMITATIONS OF INVESTIGATION

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a full, total, complete or extensive assessment and evaluation.

Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by professional consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

cc: Mr. Dean Timlitz - VA Medical Center
Mr. Ola Kowalskyj - VA Medical Center

CERTIFICATIONS

"I, Randy E. Boness, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Signature, title and P.E. number

P.E. stamp

"I, James M. Westerman, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Signature and title Project Hydrogeologist

Date 10/29/01

TABLES

Table 1
Soil Quality Results
Detected Compounds Only
V. A. Medical Center
Building #43
5000 West National Avenue
Milwaukee, Wisconsin
Project Reference #6953

Boring ID		GP-1	GP-1	GP-2	GP-2	Tank Fill	NR 720 Soil	COMM 46 Table 1	COMM 46 Table 2
Depth (feet bgs)	Units	2 - 4	8 - 10	2 - 4	8 - 10		Cleanup Levels		
DRO	mg/kg	<5.87	<5.80	<5.82	<5.83	1,500	100	NES	NES
Lead	mg/kg	NA	NA	NA	NA	14	50	NES	NES
Petroleum Volatile Organic Compounds:									
Benzene	mg/kg	NA	NA	NA	NA	<0.025	0.0055	8.5	1.1
Ethylbenzene	mg/kg	NA	NA	NA	NA	NA	2.9	4.6	NES
Methyl Tert Butyl Ether	mg/kg	NA	NA	NA	NA	NA	NES	NES	NES
Toluene	mg/kg	NA	NA	NA	NA	NA	1.5	38	NES
1,2,4-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NES	83	NES
1,3,5-Trimethylbenzene	mg/kg	NA	NA	NA	NA	NA	NES	11	NES
Total Xylenes	mg/kg	NA	NA	NA	NA	NA	4.1	42	NES

KEY:
Geoprobe borings completed on 08/14/2001
NA = Not Analyzed
NES = No Standard Established
BOLD = Detected above NR 720 Soil Cleanup Guidelines or Residual Contaminant Levels
BOLD = Detected above COMM 46 Table 1 Value

Table 2
Groundwater Laboratory Analytical Results
Detected Compounds Only

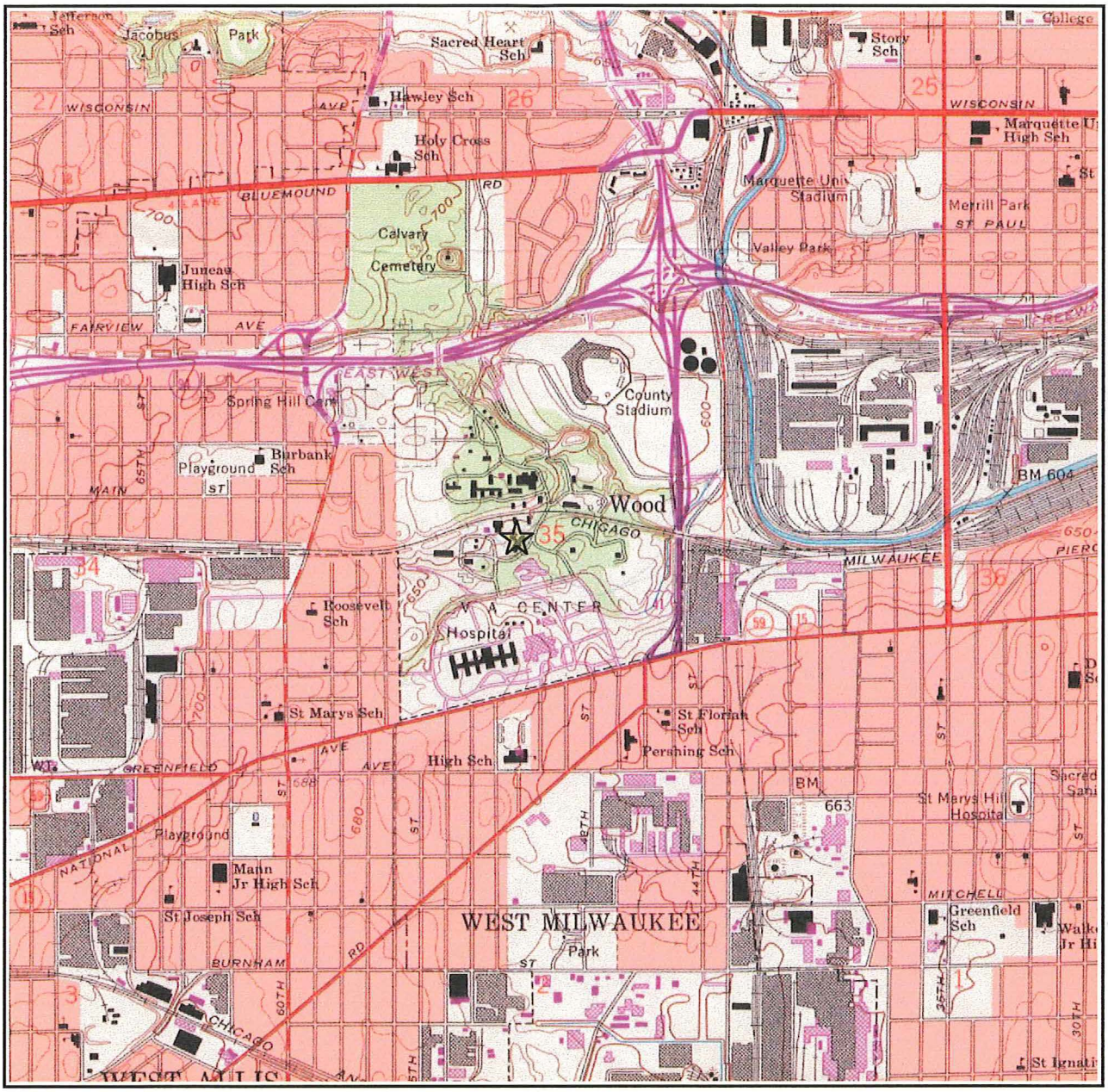
V. A. Medical Center
Building #43
5000 West National Avenue
Milwaukee, Wisconsin
Project Reference #6953

Parameter	Units	MW-1		MW-2		MW-3		NR 140 ES	NR 140 PAL
		08/14/2001	09/07/2001	08/14/2001	09/07/2001	08/14/2001	09/07/2001		
DRO	mg/l	0.358	NA	0.100	NA	0.462	NA	NES	NES
Volatile Organic Compounds									
Benzene	µg/l	<0.5	NA	<0.5	NA	<0.5	NA	5	0.5
Ethylbenzene	µg/l	<0.5	NA	<0.5	NA	<0.5	NA	700	140
Isopropylbenzene	µg/l	<0.5	NA	<0.5	NA	<0.5	NA	NES	NES
MTBE	µg/l	<0.5	NA	<0.5	NA	<0.5	NA	60	12
Toluene	µg/l	<0.5	NA	<0.5	NA	<0.5	NA	1,000	200
1,2,4-Trimethylbenzene	µg/l	<1.0	NA	<1.0	NA	<1.0	NA	480	96
1,3,5-Trimethylbenzene	µg/l	<1.0	NA	<1.0	NA	<1.0	NA	480	96
Total Xylenes	µg/l	0.687	NA	<0.5	NA	<0.5	NA	10,000	1,000
Polynuclear Aromatic Compounds									
Acenaphthene	µg/l	<5	**0.646**	<5	<0.1	<5	<0.01	NES	NES
Benzo(a)pyrene	µg/l	**0.847**	**0.183 j**	<0.02	<0.02	<0.02	<0.02	0.2	0.02
Benzo(a)Anthracene	µg/l	<0.1	**0.091**	<0.1	<0.03	<0.1	<0.03	NES	NES
Benzo(b)Fluoranthene	µg/l	<0.02	**0.116**	<0.02	<0.02	<0.02	<0.02	0.2	0.02
Benzo(g,h,i)Perylene	µg/l	<5	**0.162 j**	<5	<0.09	<5	<0.09	NES	NES
Chrysene	µg/l	**8.68**	**0.093**	**3.900**	**0.025 j**	**18.90**	<0.02	0.2	0.02
Indeno(1,2,3-cd)Pyrene	µg/l	<0.2	**0.359**	<0.2	<0.06	<0.2	<0.06	NES	NES
1-Methyl Naphthalene	µg/l	<5	**3.560**	<5	<0.13	<5	**0.337 j**	NES	NES
2-Methyl Naphthalene	µg/l	<5	**4.570**	<5	<0.12	<5	**0.34 j**	NES	NES
Naphthalene	µg/l	<5	**2.610**	<5	<0.06	<5	**0.56**	40	8
Phenanthrene	µg/l	<5	**0.582**	<5	**0.107 j**	<5	<0.11	NES	NES

KEY:

µg/l	= micrograms per liter
mg/l	= milligrams per liter
MTBE	= Methyl tert-butyl ether
ES	= Chapter NR 140 Enforcement Standard
PAL	= Chapter NR 140 Preventive Action Limit
NES	= No Established Standard
j	= Estimated concentration between the laboratory level of quantitation and level of detection
BOLD	= Detected above the laboratory method of detection
BOLD	= Detected above NR 140 Preventive Action Limits
BOLD	= Detected above NR 140 Enforcement Standards

FIGURES



NE ¼ of the SW ¼ of Sec. 35, T7N, R21E Adapted from U.S.G.S. 7.5 minute series, Milwaukee, Wisconsin, quadrangle dated 1958 (photorevised 1971).

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

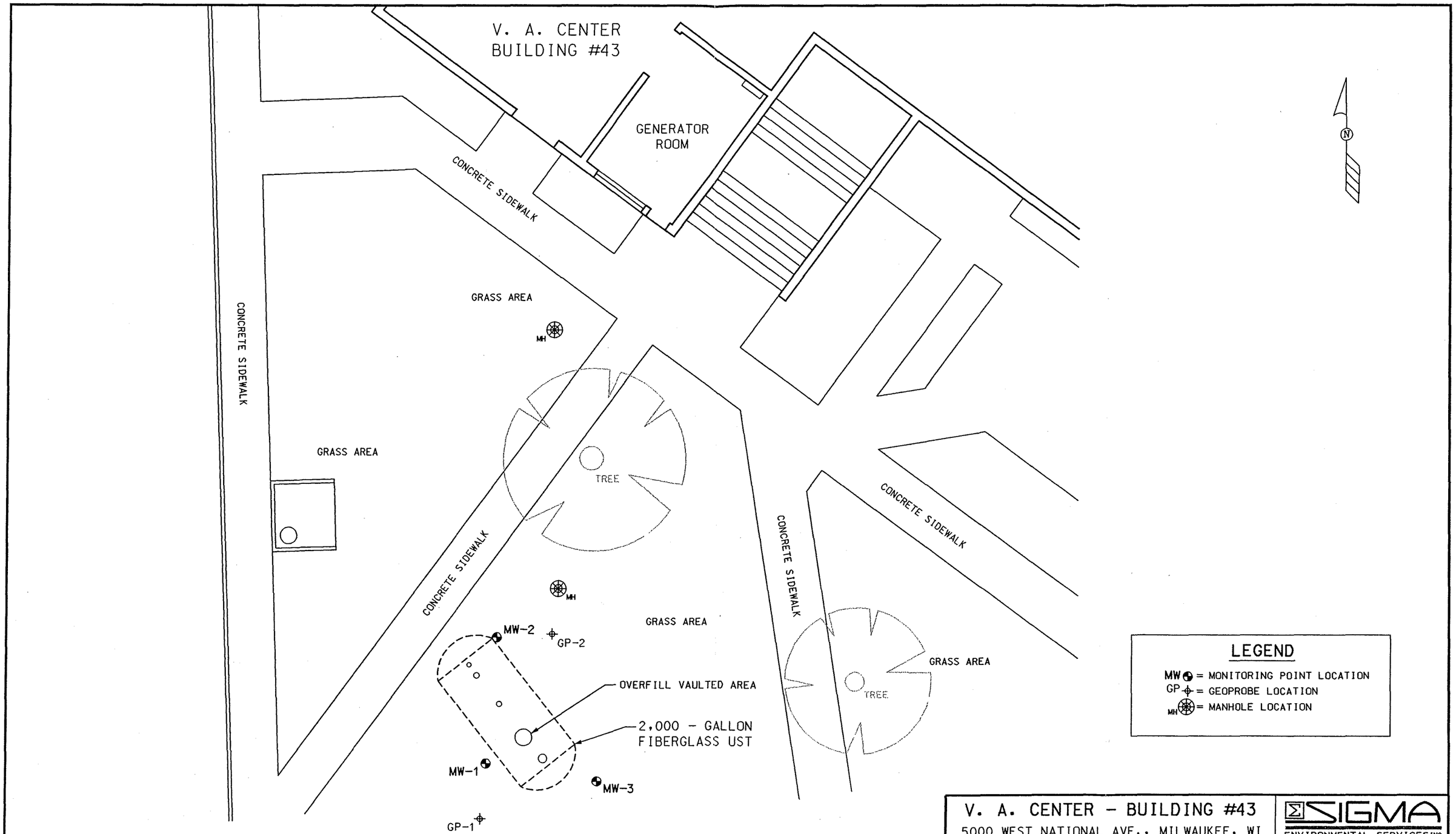
CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

N

Figure 1. Site Location Map
VA Medical Center Building #43
5000 W. National Ave., Milwaukee, Wisconsin

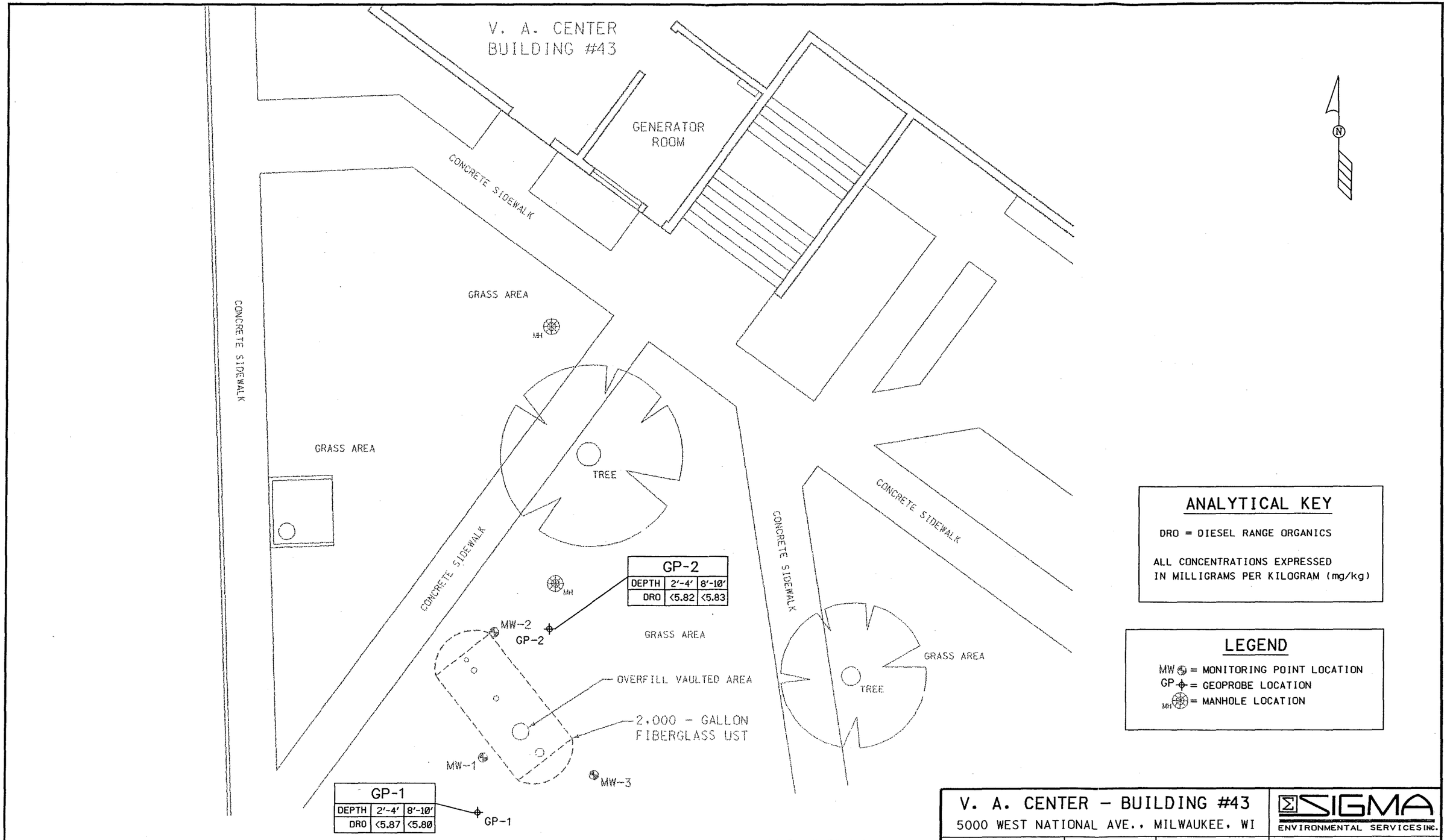
SIGMA ENVIRONMENTAL SERVICES INC.

6953fig1.ppt



NOTES:
1. DIMENSIONS DEPICTED ON MAP ARE BASED FROM SURVEY PERFORMED BY PSJ ENGINEERING, INC.
2. GEOPROBE SOIL BORING LOCATIONS ARE FOR REFERENCE ONLY AND WERE NOT INCLUDED IN SURVEY.

V. A. CENTER - BUILDING #43 5000 WEST NATIONAL AVE., MILWAUKEE, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 10-9-01	DR. BY: BEB	DR.# 6953-002	SCALE: 1" = 20'
SITE PLAN MAP			FIGURE 2



GP-2		
DEPTH	2'-4'	8'-10'
DRO	<5.82	<5.83

GP-1		
DEPTH	2'-4'	8'-10'
DRO	<5.87	<5.80

ANALYTICAL KEY

DRO = DIESEL RANGE ORGANICS

ALL CONCENTRATIONS EXPRESSED
IN MILLIGRAMS PER KILOGRAM (mg/kg)

LEGEND

MW = MONITORING POINT LOCATION
GP = GEOPROBE LOCATION
MH = MANHOLE LOCATION

NOTES:
1. DIMENSIONS DEPICTED ON MAP ARE BASED FROM SURVEY PERFORMED BY PSJ ENGINEERING, INC.
2. GEOPROBE SOIL BORING LOCATIONS ARE FOR REFERENCE ONLY AND WERE NOT INCLUDED IN SURVEY.

GRAPHIC SCALE
0 10 20 40

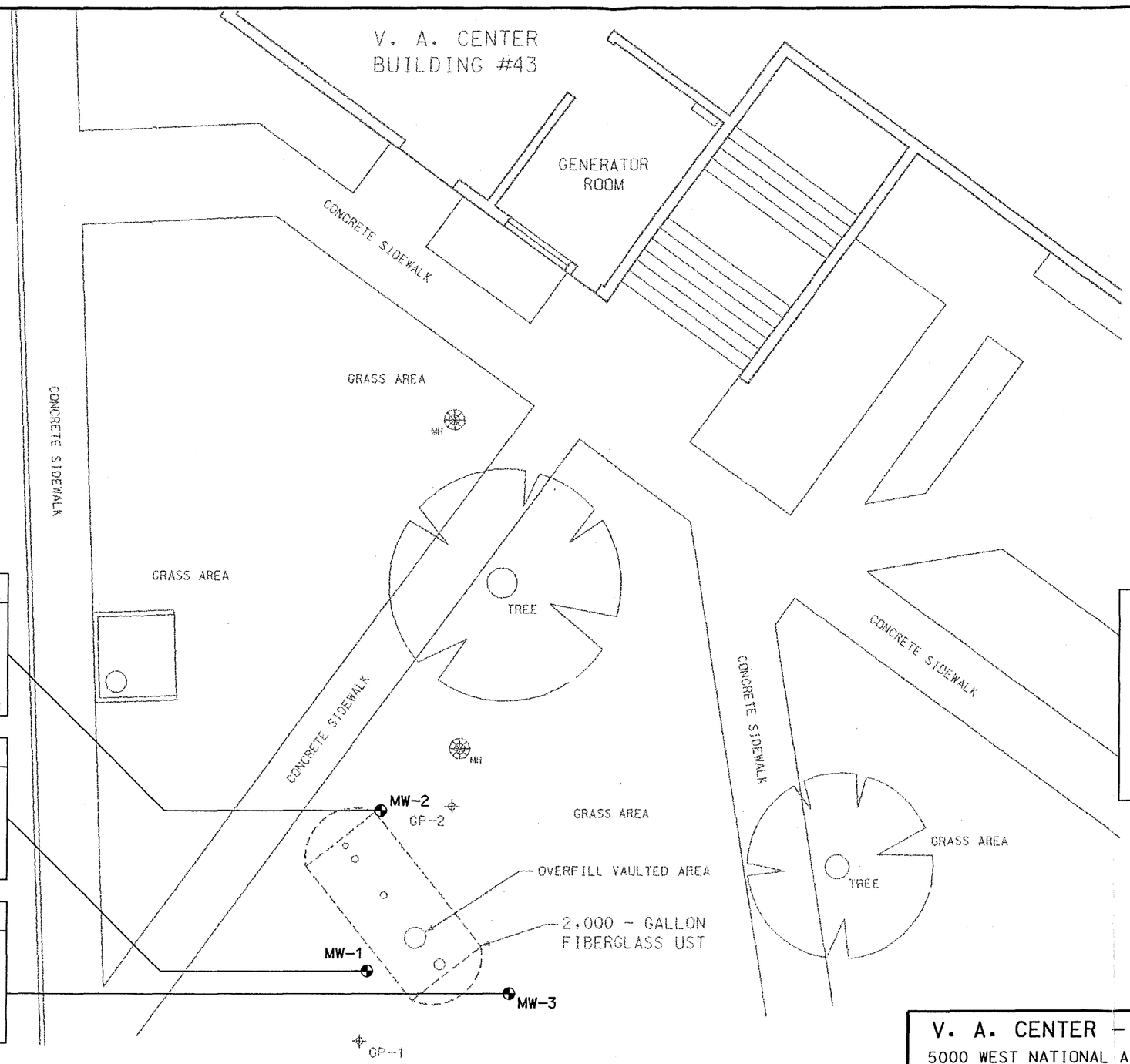
V. A. CENTER – BUILDING #43
5000 WEST NATIONAL AVE., MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 10-9-01	DR. BY: BEB	DR.# 6953-003	SCALE: 1" = 20'

SOIL QUALITY MAP

FIGURE 3



MW-2 DATE	8-14-01	9-7-01
BENZENE	<0.5	NA
TOLUENE	<0.5	NA
ETHYLBENZENE	<0.5	NA
TOTAL XYLENE	<0.5	NA
BENZO (a) PYRENE	<0.2	<0.02
CHRYSENE	[3.9]	0.025j

MW-1 DATE	8-14-01	9-7-01
BENZENE	<0.5	NA
TOLUENE	<0.5	NA
ETHYLBENZENE	<0.5	NA
TOTAL XYLENE	0.687	NA
BENZO (a) PYRENE	[0.847]	0.183j
CHRYSENE	[8.68]	0.093

MW-3 DATE	8-14-01	9-7-01
BENZENE	<0.5	NA
TOLUENE	<0.5	NA
ETHYLBENZENE	<0.5	NA
TOTAL XYLENE	<0.5	NA
BENZO (a) PYRENE	<0.02	<0.02
CHRYSENE	[18.90]	<0.02

ANALYTICAL KEY

NA = NOT ANALYZED
j = ESTIMATED CONCENTRATION BETWEEN THE LEVEL DETECTION LIMIT AND LEVEL OF QUANTITATION
[ ] = DETECTED ABOVE NR 140 ENFORCEMENT STANDARD

ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (ug/l)

LEGEND

MW = MONITORING POINT LOCATION
GP = GEOPROBE LOCATION
MH = MANHOLE LOCATION

NOTES:
1. DIMENSIONS DEPICTED ON MAP ARE BASED FROM SURVEY PERFORMED BY PSJ ENGINEERING, INC.
2. GEOPROBE SOIL BORING LOCATIONS ARE FOR REFERENCE ONLY AND WERE NOT INCLUDED IN SURVEY.

GRAPHIC SCALE
0 10 20 40

V. A. CENTER - BUILDING #43
5000 WEST NATIONAL AVE., MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 10-9-01	DR. BY: BEB	DR.# 6953-004	SCALE: 1" = 20'

GROUNDWATER QUALITY MAP

FIGURE 4

APPENDIX A

WASTE MANAGEMENT

NORTHERN REGION
SPECIAL WASTE MANAGEMENT DECISION

ORC BIO 467776
Waste Profile Sheet Code

I. Request For Decision: ✓ Initial _____ Renewal

ENERATOR NAME: VA Medical Center ADDRESS: 5000 W. National Ave

CITY,STATE: Milwaukee WI 53295

'ASTE NAME(S): Diesel Contaminated Soil

ROPOSED MANAGEMENT FACILITY: Orchard Ridge

PROPOSED INTERMEDIATE RANSFER FACILITY: N/A TRANSPORTER:

WMNA REQUESTER: S. Chaon/tb SIGNATURE:

. TECHNICAL MANAGER DECISION: (circle one) (APPROVED) DISAPPROVED ____ Check if additional information is attached.

If Disapproved, Explain:

If Approved, Complete A,B,C And D Below:

. Management Method(s): Bioremediation

. Precautions, Conditions, or Limitations on Approval: Daily cover, berms, road base, and other features not located on exterior slopes if combined DRO and GRO are less than 250 ppm. Use on exterior slopes if combined DRO and GRO is less than 10 ppm.

: Decision Expiration Date: 09/27/2002

TECH MGR. SIGNATURE Bruce Ten Haken NAME (Print) ~~Richard L. Pager~~ BTH 9/27/01 DATE: 9/27/01

I WMI MANAGEMENT FACILITY SITE MANAGER DECISION (circle one) (APPROVED) DISAPPROVED
Approved, State Any Additional Precautions, Conditions, or Limitations

ITE MGR. SIGNATURE NAME (Print) Brian Linzmeier DATE: 9-27-01

IV WMI INTERMEDIATE TRANSFER FACILITY SITE MANAGER DECISION (circle one) APPROVED DISAPPROVED
Approved, State Any dditional Precautions, Conditions, or Limitations

ITE MGR. SIGNATURE NAME (Print) DATE:

SPECIAL WASTE MANIFEST DISPOSAL TICKET ____ 614263

A Waste Management Company

BILL TO: VA [illegible]

TRANSPORTER: [illegible]

GENERATOR: VA [illegible]

GENERATORS SIGNATURE: _____ / ____ / ____ Date

WASTE DESCRIPTION: [illegible]

PROFILE # [illegible]

ACCEPTED BY: _____ / ____ / ____ Date

DRIVERS SIGNATURE David Dailey 10/26/01 Date TRUCK NO. 1 _____ TONS/YARDS

WHITE & YELLOW - GENERATOR COPY / PINK - DISPOSAL SITE COPY / GOLD - TRANSPORTER COPY

DCE-009-94

APPENDIX B

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Temp Record V.A. Medical Center	License/Permit/Monitoring Number	Boring Number: GP1
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Sikora — Firm: Sigma Env.	Date Drilling Started: 8/14/2001	Date Drilling Completed: 8/14/2001 — Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2.0 inches
Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒ — State Plane 0 N, 0 E S/~~C~~/N — VE 1/4 of SW 1/4 of Section 35, T 7 N, R 21 E/W	Lat 0° 0' 0" — Long 0° 0' 0"	Local Grid Location: ☐ N ☐ E — _____ Feet ☐ S 0 Feet ☐ W
Facility ID: 0	County: Milwaukee	County Code: ____
Civil Town/City/ or Village: City of		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	12"	P U S H	0-2	6" topsoil 6" Sandy silt				0		D				
2	12"		2-4	12" Brown Dry Silty Clay w/ some Small Gravel	CL			0		D				
3	18"		4-6	14" Same	CL			0		m				
4	18"		6-8	18" Brown Clay w/ small Gravel	CL			0		m				
5	20"		8-10	20" Same	CL			0		m				
				End of Boring 10' b.g.s.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Sigma Environmental

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Temp Record V.A. Medical Center		GP-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Joe Last Name: Sikora Firm: Sigma Environmental	08/14/2001 (m m d d y y y y)	08/14/2001 (m m d d y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane 0 N, 0 E S/C/N
Lat 0 ° 0 ' 0 "
Long 0 ° 0 ' 0 "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S 0 Feet ☐ W
1/6 1/4 of SW 1/4 of Section 35, T 7 N, R 21 E/W

Facility ID	County	County Code	Civil Town/City/ or Village
0	Milwaukee	___	City of

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	6"	P	0-2	6" Topsoil				0			D			
2	18"	4 5	2-4	18" Brown Silty Clay	CL			0			D			
3	20"	H	4-6	20" Same, w/ Gravel	CL			0			D			
4	24"		6-8	24" Brown Clay w/Gravel	CL			0			M			
5	24"		8-10	24" Same	CL			0			M			
				End of Boring 10' b.g.s.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Sigma Environmental

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

APPENDIX C

State of Wisconsin
Department of Natural Resources

Form 3300-5B

ABANDONMENT
Rev. 7-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-1

County: Milwaukee

NE 1/4 of SW 1/4 of Sec. 35 ; T. 7 N; R. 21 ☒ E ☐ W

(If applicable) _____ Gov't Lot _____ Grid Number

Grid Location _____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Civil Town Name: Milwaukee, City of

Street Address of Well: 5000 W. National Ave.

City, Village: Milwaukee

(2) FACILITY NAME

Original Well Owner (If Known): V.A. Medical Center

Present Well Owner:

Street or Route: 5000 W. National Ave.

City, State, Zip Code: Milwaukee, WI

Facility Well No. and/or Name (If Applicable):

WI Unique Well No.: _ _ _ _ _ _

Reason For Abandonment: No further use

Date of Abandonment: 8/14/01

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 8/14/01

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 10 Casing Diameter (ins.) _____
(From groundsurface)

Casing Depth (ft.) _____

Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) _____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain _____

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Recapped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes
☐ Bentonite Pellets
☒ Granular Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Granular Bentonite	Surface	10'	15 lbs.	

(8) Comments: _____

(9) Name of Person or Firm Doing Sealing Work: Joseph M. Sikora (Sigma Env.)

Signature of Person Doing Work: [signature] Date Signed: 10/03/01

Street or Route: 220 E. Ryan Rd Telephone Number: (414) 768-7144

City, State, Zip Code: Oak Creek, WI

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected: _____ District/County: _____

Reviewer/Inspector: _____

Follow-up Necessary _____

Department of Natural Resources | Form 3300-5B | Rev. 7-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/Drillhole/Borehole Location: GP-2
County: Milwaukee
NE 1/4 of SW 1/4 of Sec. 7 ; T. 21 N; R. ____ ☒ E ☐ W
(If applicable) ____ Gov't Lot ____ Grid Number
Grid Location ____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.
Civil Town Name: Milwaukee, City of
Street Address of Well: 5000 W. National Ave.
City, Village: Milwaukee

(2) FACILITY NAME

Original Well Owner (If Known): V.A. Medical Center
Present Well Owner:
Street or Route: 5000 W. National Ave
City, State, Zip Code: Milwaukee, WI
Facility Well No. and/or Name (If Applicable):
WI Unique Well No.: _ _ _ _ _ _ _
Reason For Abandonment: No further use
Date of Abandonment: 8/14/01

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On
(Date) 8/14/01

☐ Monitoring Well
☐ Water Well
☐ Drillhole
☒ Borehole

Construction Report Available? ☒ Yes ☐ No

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 10 Casing Diameter (ins.) ____
(From groundsurface)

Casing Depth (ft.) ____

Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	☒ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☐ No	

If No, Explain ____

Was Casing Cut Off Below Surface?	☐ Yes	☒ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

(5) Required Method of Placing Sealing Material
☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Dump Bailer ☐ Other (Explain)

(6) Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry
☐ Bentonite-Sand Slurry
☐ Chipped Bentonite

For monitoring wells and monitoring well boreholes
☐ Bentonite Pellets
☒ Granular Bentonite

(7) Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Granular Bentonite	Surface	10'	15 lbs.	

(8) Comments: ____

(9) Name of Person or Firm Doing Sealing Work
Sigma Env. Joe Sikora
Signature of Person Doing Work: [signature] Date Signed: 10/05/01
Street or Route: 220 E Ryan Rd Telephone Number: (414) 768-7144
City, State, Zip Code: Oak Creek, WI

(10) FOR DNR OR COUNTY USE ONLY
Date Received/Inspected: ____ District/County: ____
Reviewer/Inspector: ____
Follow-up Necessary: ____

APPENDIX D

SIGMA ENVIRONMENTAL SERVICES, INC.
SUMMARY SHEET FOR GROUNDWATER SAMPLING

PROJECT NAME: V.A.M.C
REFERENCE #: #6953
DATE: 8/14/01
LOCATION: Milwaukee
WEATHER: 75° Sunny
PERSONNEL: Chris Hammerling, Joe Sikora
ANALYTES: DRO, VOC, PAH

PURGING DEVICE/SAMPLING DEVICE

Type of Device: Teflon Bailer / Peristaltic Pump
How was Device Decontaminated: Sigma's S.O.P.
How was the line Decontaminated: New Line / New Tubing

Well Volume	MW-1	MW-2	MW-3	MW-	MW-	MW-	MW-	MW-	MW-
Well Diameter	4	4	10						
Stickup/Flushmount	Flush	Flush	Flush						
Depth to Bottom (ft)	8.45	11.25	10.30						
Depth to Water (ft)	6.05	6.81	5.30						
Length of Water (ft)	2.40	4.46	5.0						
VOLUME (gal)	1.5	2.9	7.3						
x4	6 gal	11. gal	29 gal						
Sediment (in)	0	0	0						
Time Purged	9:00	10:00	10:30						
Time Sampled	10:06	11:00	11:15						

IN-SITU TESTING

D.O. (mg/l)									
Redox (mV)									
pH (S.U.)									
Conductivity (u/mS)									
Ferrous Fe (mg/L)									
Temperature (C)									
Turbidity (C/T/O)	T	T	T						
Odor (Y or N)	~~NO~~	no	no						
Volume	2gal	7gal	15gal						
Well Recovery	poor	Fair	Fair						

Note: Above is for one well volume

Well Size		Gallons/Linear Foot
2 inch	x	0.16
4 inch	x	0.65
6 inch	x	1.47

NOTES Dup. poured at MW-1

SIGMA ENVIRONMENTAL SERVICES, INC.

SUMMARY SHEET FOR GROUNDWATER SAMPLING

PROJECT NAME: VETERANS ADMINISTRATION MEDICAL CENTER
REFERENCE #: 6953
DATE: 9/7/01
LOCATION: 5000 WEST NATIONAL AVENUE MILWAUKEE, WI
WEATHER: MOSTLY SUNNY 75°
PERSONNEL: TOM McCOY
ANALYTES: PAH

PURGING DEVICE/SAMPLING DEVICE

Type of Device: Teflon Bailer / Peristaltic Pump
How was Device Decontaminated: Sigma's S.O.P.
How was the line Decontaminated: New Line / New Tubing

Well Volume	MW-1	MW-2	MW-3	MW-	MW-	MW-	MW-	MW-	MW-
Well Diameter	3"	3"	6"						
Stickup/Flushmount	FLUSHMOUNT								
Depth to Bottom (ft)	8.30'	11.05'	10.10'						
Depth to Water (ft)	5.53'	6.29'	4.75'						
Length of Water (ft)	2.77	4.76	5.35						
VOLUME (gal)	1.13	1.94	7.86						
x4	4.52	7.76	31.46						
Sediment (in)									
Time Purged	11:30	12:00	12:30						
Time Sampled	11:55	12:25	13:05						

IN-SITU TESTING

D.O. (mg/l)	0.15	0.22	0.18						
Redox (mV)	-232.6	-31.7	-177.2						
pH (S.U.)	7	7	7						
Conductivity (u/mS)	—	—							
Ferrous Fe (mg/L)	0.0	0.0	0.0						
Temperature (C)	15.9°	16.3°	16.2°						
Turbidity (C/T/O)	TURBID	SLIGHTLY TURBID	MOSTLY CLEAR						
Odor (Y or N)	YES	SLIGHT	YES						
Volume	9.00	13.00	31.50						
Well Recovery	SLOW	MODERATE	GOOD						

Note Above is for one well volume

Well Size		Gallons/Linear Foot
2 inch	x	0.16
4 inch	x	0.65
6 inch	x	1.47

NOTES DUPLICATE SAMPLE TAKEN AT MW-1

APPENDIX E

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
Tank Fill	W108120-01	Soil (WI)	8/14/01
Trip Blank	W108120-02	MeOH Blank	8/14/01
MW-1	W108120-03	Water	8/14/01
MW-2	W108120-04	Water	8/14/01
MW-3	W108120-05	Water	8/14/01
Dup.	W108120-06	Water	8/14/01
TRIP BLANK	W108120-07	Water	8/14/01
EQUIPMENT BLANK	W108120-08	Water	8/14/01
GP-1 2-4'	W108120-09	Soil (WI)	8/14/01
GP-1 8-10'	W108120-10	Soil (WI)	8/14/01
GP-2 2-4'	W108120-11	Soil (WI)	8/14/01
GP-2 8-10'	W108120-12	Soil (WI)	8/14/01

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

Diesel Range Organics (DRO) by WDNR DRO
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
Tank Fill			W108120-01				Soil (WI)	G12,G19
Diesel Range Organics (DRO)	1080047	8/15/01	8/15/01	WDNR DRO	62.3	**1500**	mg/kg dry	T10,T15,T8
MW-1			W108120-03				Water	
Diesel Range Organics (DRO)	1080048	8/15/01	8/15/01	WDNR DRO	0.100	**0.358**	mg/l	T10,T15,T2,T6
MW-2			W108120-04				Water	
Diesel Range Organics (DRO)	1080048	8/15/01	8/15/01	WDNR DRO	0.100	ND	mg/l	
MW-3			W108120-05				Water	
Diesel Range Organics (DRO)	1080048	8/15/01	8/15/01	WDNR DRO	0.100	**0.462**	mg/l	T10,T15,T2,T6
GP-1 2-4'			W108120-09				Soil (WI)	G19
Diesel Range Organics (DRO)	1080047	8/15/01	8/15/01	WDNR DRO	5.87	ND	mg/kg dry	
GP-1 8-10'			W108120-10				Soil (WI)	G19
Diesel Range Organics (DRO)	1080047	8/15/01	8/15/01	WDNR DRO	5.80	ND	mg/kg dry	
GP-2 2-4'			W108120-11				Soil (WI)	G19
Diesel Range Organics (DRO)	1080047	8/15/01	8/16/01	WDNR DRO	5.82	ND	mg/kg dry	
GP-2 8-10'			W108120-12				Soil (WI)	G19
Diesel Range Organics (DRO)	1080047	8/15/01	8/16/01	WDNR DRO	5.83	ND	mg/kg dry	

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

Petroleum Volatile Organic Compounds (PVOC) by Method 8021B
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Tank Fill			**W108120-01**				**Soil (WI)**	
Benzene	1080049	8/15/01	8/16/01		25.0	ND	ug/kg dry	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	*80.0-120*		*95.9*	*%*	

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**W108120-03**				**Water**	
Benzene	1080057	8/17/01	8/21/01		0.500	ND	ug/l	
Bromobenzene	"	"	"		0.500	ND	"	
Bromodichloromethane	"	"	"		0.500	ND	"	
n-Butylbenzene	"	"	"		0.500	ND	"	
sec-Butylbenzene	"	"	"		0.500	ND	"	
tert-Butylbenzene	"	"	"		0.500	ND	"	
Carbon tetrachloride	"	"	"		0.500	ND	"	
Chlorobenzene	"	"	"		0.500	ND	"	
Chloroethane	"	"	"		0.500	ND	"	
Chloroform	"	"	"		0.140	ND	"	
Chloromethane	"	"	"		0.600	ND	"	
2-Chlorotoluene	"	"	"		0.500	ND	"	
4-Chlorotoluene	"	"	"		0.500	ND	"	
Dibromochloromethane	"	"	"		0.500	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		0.390	ND	"	
1,2-Dibromoethane	"	"	"		0.380	ND	"	
1,2-Dichlorobenzene	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.500	ND	"	
Dichlorodifluoromethane	"	"	"		0.500	ND	"	
1,1-Dichloroethane	"	"	"		0.500	ND	"	
1,2-Dichloroethane	"	"	"		0.500	ND	"	
1,1-Dichloroethene	"	"	"		0.500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.500	ND	"	
1,2-Dichloropropane	"	"	"		0.500	ND	"	
1,3-Dichloropropane	"	"	"		0.500	ND	"	
2,2-Dichloropropane	"	"	"		0.500	ND	"	
Di-isopropyl ether	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Hexachlorobutadiene	"	"	"		5.00	ND	"	
Isopropylbenzene	"	"	"		0.500	ND	"	
p-Isopropyltoluene	"	"	"		0.500	ND	"	
Methylene chloride	"	"	"		0.530	ND	"	
Methyl tert-butyl ether	"	"	"		0.500	ND	"	
Naphthalene	"	"	"		2.00	ND	"	
n-Propylbenzene	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.350	ND	"	

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1 (continued)			**W108120-03**				**Water**	
Tetrachloroethene	1080057	8/17/01	8/21/01		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
1,2,3-Trichlorobenzene	"	"	"		2.00	ND	"	
1,2,4-Trichlorobenzene	"	"	"		2.00	ND	"	
1,1,1-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.160	ND	"	
Trichloroethene	"	"	"		0.500	ND	"	
Trichlorofluoromethane	"	"	"		0.500	ND	"	
1,2,4-Trimethylbenzene	"	"	"		1.00	ND	"	
1,3,5-Trimethylbenzene	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		0.170	ND	"	
Total Xylenes	"	"	"		0.500	**0.687**	"	
Surrogate: 1-Cl-4-FB (ELCD)	"	"	"	*80.0-120*		*104*	*%*	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	*80.0-120*		*122*	"	*O5*

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-2			**W108120-04**				**Water**	
Benzene	1080057	8/17/01	8/21/01		0.500	ND	ug/l	
Bromobenzene	"	"	"		0.500	ND	"	
Bromodichloromethane	"	"	"		0.500	ND	"	
n-Butylbenzene	"	"	"		0.500	ND	"	
sec-Butylbenzene	"	"	"		0.500	ND	"	
tert-Butylbenzene	"	"	"		0.500	ND	"	
Carbon tetrachloride	"	"	"		0.500	ND	"	
Chlorobenzene	"	"	"		0.500	ND	"	
Chloroethane	"	"	"		0.500	ND	"	
Chloroform	"	"	"		0.140	ND	"	
Chloromethane	"	"	"		0.600	ND	"	
2-Chlorotoluene	"	"	"		0.500	ND	"	
4-Chlorotoluene	"	"	"		0.500	ND	"	
Dibromochloromethane	"	"	"		0.500	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		0.390	ND	"	
1,2-Dibromoethane	"	"	"		0.380	ND	"	
1,2-Dichlorobenzene	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.500	ND	"	
Dichlorodifluoromethane	"	"	"		0.500	ND	"	
1,1-Dichloroethane	"	"	"		0.500	ND	"	
1,2-Dichloroethane	"	"	"		0.500	ND	"	
1,1-Dichloroethene	"	"	"		0.500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.500	ND	"	
1,2-Dichloropropane	"	"	"		0.500	ND	"	
1,3-Dichloropropane	"	"	"		0.500	ND	"	
2,2-Dichloropropane	"	"	"		0.500	ND	"	
Di-isopropyl ether	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Hexachlorobutadiene	"	"	"		5.00	ND	"	
Isopropylbenzene	"	"	"		0.500	ND	"	
p-Isopropyltoluene	"	"	"		0.500	ND	"	
Methylene chloride	"	"	"		0.530	ND	"	
Methyl tert-butyl ether	"	"	"		0.500	ND	"	
Naphthalene	"	"	"		2.00	ND	"	
n-Propylbenzene	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.350	ND	"	

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

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220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-2 (continued)			**W108120-04**				**Water**	
Tetrachloroethene	1080057	8/17/01	8/21/01		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
1,2,3-Trichlorobenzene	"	"	"		2.00	ND	"	
1,2,4-Trichlorobenzene	"	"	"		2.00	ND	"	
1,1,1-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.160	ND	"	
Trichloroethene	"	"	"		0.500	ND	"	
Trichlorofluoromethane	"	"	"		0.500	ND	"	
1,2,4-Trimethylbenzene	"	"	"		1.00	ND	"	
1,3,5-Trimethylbenzene	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		0.170	ND	"	
Total Xylenes	"	"	"		0.500	ND	"	
Surrogate: 1-Cl-4-FB (ELCD)	"	"	"	*80.0-120*		*101*	*%*	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	*80.0-120*		*110*	"	

Great Lakes Analytical--Oak Creek

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Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-3			**W108120-05**				**Water**	
Benzene	1080057	8/17/01	8/21/01		0.500	ND	ug/l	
Bromobenzene	"	"	"		0.500	ND	"	
Bromodichloromethane	"	"	"		0.500	ND	"	
n-Butylbenzene	"	"	"		0.500	ND	"	
sec-Butylbenzene	"	"	"		0.500	ND	"	
tert-Butylbenzene	"	"	"		0.500	ND	"	
Carbon tetrachloride	"	"	"		0.500	ND	"	
Chlorobenzene	"	"	"		0.500	ND	"	
Chloroethane	"	"	"		0.500	ND	"	
Chloroform	"	"	"		0.140	ND	"	
Chloromethane	"	"	"		0.600	ND	"	
2-Chlorotoluene	"	"	"		0.500	ND	"	
4-Chlorotoluene	"	"	"		0.500	ND	"	
Dibromochloromethane	"	"	"		0.500	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		0.390	ND	"	
1,2-Dibromoethane	"	"	"		0.380	ND	"	
1,2-Dichlorobenzene	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.500	ND	"	
Dichlorodifluoromethane	"	"	"		0.500	ND	"	
1,1-Dichloroethane	"	"	"		0.500	ND	"	
1,2-Dichloroethane	"	"	"		0.500	ND	"	
1,1-Dichloroethene	"	"	"		0.500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.500	ND	"	
1,2-Dichloropropane	"	"	"		0.500	ND	"	
1,3-Dichloropropane	"	"	"		0.500	ND	"	
2,2-Dichloropropane	"	"	"		0.500	ND	"	
Di-isopropyl ether	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Hexachlorobutadiene	"	"	"		5.00	ND	"	
Isopropylbenzene	"	"	"		0.500	ND	"	
p-Isopropyltoluene	"	"	"		0.500	ND	"	
Methylene chloride	"	"	"		0.530	ND	"	
Methyl tert-butyl ether	"	"	"		0.500	ND	"	
Naphthalene	"	"	"		2.00	ND	"	
n-Propylbenzene	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.350	ND	"	

Great Lakes Analytical--Oak Creek

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Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-3 (continued)			**W108120-05**				**Water**	
Tetrachloroethene	1080057	8/17/01	8/21/01		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
1,2,3-Trichlorobenzene	"	"	"		2.00	ND	"	
1,2,4-Trichlorobenzene	"	"	"		2.00	ND	"	
1,1,1-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.160	ND	"	
Trichloroethene	"	"	"		0.500	ND	"	
Trichlorofluoromethane	"	"	"		0.500	ND	"	
1,2,4-Trimethylbenzene	"	"	"		1.00	ND	"	
1,3,5-Trimethylbenzene	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		0.170	ND	"	
Total Xylenes	"	"	"		0.500	ND	"	
Surrogate: 1-Cl-4-FB (ELCD)	"	"	"	*80.0-120*		*106*	*%*	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	*80.0-120*		*99.2*	"	

Great Lakes Analytical--Oak Creek

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Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Dup.			**W108120-06**				**Water**	
Benzene	1080057	8/17/01	8/21/01		0.500	ND	ug/l	
Bromobenzene	"	"	"		0.500	ND	"	
Bromodichloromethane	"	"	"		0.500	ND	"	
n-Butylbenzene	"	"	"		0.500	ND	"	
sec-Butylbenzene	"	"	"		0.500	ND	"	
tert-Butylbenzene	"	"	"		0.500	ND	"	
Carbon tetrachloride	"	"	"		0.500	ND	"	
Chlorobenzene	"	"	"		0.500	ND	"	
Chloroethane	"	"	"		0.500	ND	"	
Chloroform	"	"	"		0.140	ND	"	
Chloromethane	"	"	"		0.600	ND	"	
2-Chlorotoluene	"	"	"		0.500	ND	"	
4-Chlorotoluene	"	"	"		0.500	ND	"	
Dibromochloromethane	"	"	"		0.500	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		0.390	ND	"	
1,2-Dibromoethane	"	"	"		0.380	ND	"	
1,2-Dichlorobenzene	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.500	ND	"	
Dichlorodifluoromethane	"	"	"		0.500	ND	"	
1,1-Dichloroethane	"	"	"		0.500	ND	"	
1,2-Dichloroethane	"	"	"		0.500	ND	"	
1,1-Dichloroethene	"	"	"		0.500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.500	ND	"	
1,2-Dichloropropane	"	"	"		0.500	ND	"	
1,3-Dichloropropane	"	"	"		0.500	ND	"	
2,2-Dichloropropane	"	"	"		0.500	ND	"	
Di-isopropyl ether	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Hexachlorobutadiene	"	"	"		5.00	ND	"	
Isopropylbenzene	"	"	"		0.500	ND	"	
p-Isopropyltoluene	"	"	"		0.500	ND	"	
Methylene chloride	"	"	"		0.530	ND	"	
Methyl tert-butyl ether	"	"	"		0.500	ND	"	
Naphthalene	"	"	"		2.00	ND	"	
n-Propylbenzene	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.350	ND	"	

Great Lakes Analytical--Oak Creek

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WDNR Volatile Organic Compounds by Method 8021
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Dup. (continued)			**W108120-06**				**Water**	
Tetrachloroethene	1080057	8/17/01	8/21/01		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
1,2,3-Trichlorobenzene	"	"	"		2.00	ND	"	
1,2,4-Trichlorobenzene	"	"	"		2.00	ND	"	
1,1,1-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.160	ND	"	
Trichloroethene	"	"	"		0.500	ND	"	
Trichlorofluoromethane	"	"	"		0.500	ND	"	
1,2,4-Trimethylbenzene	"	"	"		1.00	ND	"	
1,3,5-Trimethylbenzene	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		0.170	ND	"	
Total Xylenes	"	"	"		0.500	**0.519**	"	
Surrogate: 1-Cl-4-FB (ELCD)	"	"	"	*80.0-120*		*110*	*%*	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	*80.0-120*		*102*	"	

Great Lakes Analytical--Oak Creek

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Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021 (Blanks)
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Trip Blank			**W108120-02**				**MeOH Blank**	
Benzene	1080066	8/21/01	8/21/01		25.0	ND	ug/l	
Bromobenzene	"	"	"		25.0	ND	"	
Bromodichloromethane	"	"	"		25.0	ND	"	
n-Butylbenzene	"	"	"		25.0	ND	"	
sec-Butylbenzene	"	"	"		25.0	ND	"	
tert-Butylbenzene	"	"	"		25.0	ND	"	
Carbon tetrachloride	"	"	"		25.0	ND	"	
Chlorobenzene	"	"	"		25.0	ND	"	
Chloroethane	"	"	"		25.0	ND	"	
Chloroform	"	"	"		25.0	ND	"	
Chloromethane	"	"	"		25.0	ND	"	
2-Chlorotoluene	"	"	"		25.0	ND	"	
4-Chlorotoluene	"	"	"		25.0	ND	"	
Dibromochloromethane	"	"	"		25.0	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		25.0	ND	"	
1,2-Dibromoethane	"	"	"		25.0	ND	"	
1,2-Dichlorobenzene	"	"	"		25.0	ND	"	
1,3-Dichlorobenzene	"	"	"		25.0	ND	"	
1,4-Dichlorobenzene	"	"	"		25.0	ND	"	
Dichlorodifluoromethane	"	"	"		25.0	ND	"	
1,1-Dichloroethane	"	"	"		25.0	ND	"	
1,2-Dichloroethane	"	"	"		25.0	ND	"	
1,1-Dichloroethene	"	"	"		25.0	ND	"	
cis-1,2-Dichloroethene	"	"	"		25.0	ND	"	
trans-1,2-Dichloroethene	"	"	"		25.0	ND	"	
1,2-Dichloropropane	"	"	"		25.0	ND	"	
1,3-Dichloropropane	"	"	"		25.0	ND	"	
2,2-Dichloropropane	"	"	"		25.0	ND	"	
Di-isopropyl ether	"	"	"		25.0	ND	"	
Ethylbenzene	"	"	"		25.0	ND	"	
Hexachlorobutadiene	"	"	"		25.0	ND	"	
Isopropylbenzene	"	"	"		25.0	ND	"	
p-Isopropyltoluene	"	"	"		25.0	ND	"	
Methylene chloride	"	"	"		100	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	ND	"	
Naphthalene	"	"	"		25.0	ND	"	
n-Propylbenzene	"	"	"		25.0	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		25.0	ND	"	

Great Lakes Analytical--Oak Creek

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WDNR Volatile Organic Compounds by Method 8021 (Blanks)
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Trip Blank (continued)			**W108120-02**				**MeOH Blank**	
Tetrachloroethene	1080066	8/21/01	8/21/01		25.0	ND	ug/l	
Toluene	"	"	"		25.0	ND	"	
1,2,3-Trichlorobenzene	"	"	"		25.0	ND	"	
1,2,4-Trichlorobenzene	"	"	"		25.0	ND	"	
1,1,1-Trichloroethane	"	"	"		25.0	ND	"	
1,1,2-Trichloroethane	"	"	"		25.0	ND	"	
Trichloroethene	"	"	"		25.0	ND	"	
Trichlorofluoromethane	"	"	"		25.0	ND	"	
1,2,4-Trimethylbenzene	"	"	"		25.0	ND	"	
1,3,5-Trimethylbenzene	"	"	"		25.0	ND	"	
Vinyl chloride	"	"	"		25.0	ND	"	
Total Xylenes	"	"	"		25.0	ND	"	
Surrogate: 1-Cl-4-FB (ELCD)	"	"	"	*80.0-120*		*113*	*%*	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	*80.0-120*		*97.3*	"	

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WDNR Volatile Organic Compounds by Method 8021 (Blanks)
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
TRIP BLANK			W108120-07				Water	
Benzene	1080057	8/17/01	8/20/01		0.500	ND	ug/l	
Bromobenzene	"	"	"		0.500	ND	"	
Bromodichloromethane	"	"	"		0.500	ND	"	
n-Butylbenzene	"	"	"		0.500	ND	"	
sec-Butylbenzene	"	"	"		0.500	ND	"	
tert-Butylbenzene	"	"	"		0.500	ND	"	
Carbon tetrachloride	"	"	"		0.500	ND	"	
Chlorobenzene	"	"	"		0.500	ND	"	
Chloroethane	"	"	"		0.500	ND	"	
Chloroform	"	"	"		0.140	ND	"	
Chloromethane	"	"	"		0.600	ND	"	
2-Chlorotoluene	"	"	"		0.500	ND	"	
4-Chlorotoluene	"	"	"		0.500	ND	"	
Dibromochloromethane	"	"	"		0.500	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		0.390	ND	"	
1,2-Dibromoethane	"	"	"		0.380	ND	"	
1,2-Dichlorobenzene	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.500	ND	"	
Dichlorodifluoromethane	"	"	"		0.500	ND	"	
1,1-Dichloroethane	"	"	"		0.500	ND	"	
1,2-Dichloroethane	"	"	"		0.500	ND	"	
1,1-Dichloroethene	"	"	"		0.500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.500	ND	"	
1,2-Dichloropropane	"	"	"		0.500	ND	"	
1,3-Dichloropropane	"	"	"		0.500	ND	"	
2,2-Dichloropropane	"	"	"		0.500	ND	"	
Di-isopropyl ether	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Hexachlorobutadiene	"	"	"		5.00	ND	"	
Isopropylbenzene	"	"	"		0.500	ND	"	
p-Isopropyltoluene	"	"	"		0.500	ND	"	
Methylene chloride	"	"	"		0.530	ND	"	
Methyl tert-butyl ether	"	"	"		0.500	ND	"	
Naphthalene	"	"	"		2.00	ND	"	
n-Propylbenzene	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.350	ND	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021 (Blanks)
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
TRIP BLANK (continued)			**W108120-07**				**Water**	
Tetrachloroethene	1080057	8/17/01	8/20/01		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
1,2,3-Trichlorobenzene	"	"	"		2.00	ND	"	
1,2,4-Trichlorobenzene	"	"	"		2.00	ND	"	
1,1,1-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.160	ND	"	
Trichloroethene	"	"	"		0.500	ND	"	
Trichlorofluoromethane	"	"	"		0.500	ND	"	
1,2,4-Trimethylbenzene	"	"	"		1.00	ND	"	
1,3,5-Trimethylbenzene	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		0.170	ND	"	
Total Xylenes	"	"	"		0.500	ND	"	
Surrogate: 1-Cl-4-FB (ELCD)	"	"	"	*80.0-120*		*98.9*	*%*	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	*80.0-120*		*111*	"	

Great Lakes Analytical--Oak Creek

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WDNR Volatile Organic Compounds by Method 8021 (Blanks)
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
EQUIPMENT BLANK			**W108120-08**				**Water**	
Benzene	1080057	8/17/01	8/20/01		0.500	ND	ug/l	
Bromobenzene	"	"	"		0.500	ND	"	
Bromodichloromethane	"	"	"		0.500	ND	"	
n-Butylbenzene	"	"	"		0.500	ND	"	
sec-Butylbenzene	"	"	"		0.500	ND	"	
tert-Butylbenzene	"	"	"		0.500	ND	"	
Carbon tetrachloride	"	"	"		0.500	ND	"	
Chlorobenzene	"	"	"		0.500	ND	"	
Chloroethane	"	"	"		0.500	ND	"	
Chloroform	"	"	"		0.140	ND	"	
Chloromethane	"	"	"		0.600	ND	"	
2-Chlorotoluene	"	"	"		0.500	ND	"	
4-Chlorotoluene	"	"	"		0.500	ND	"	
Dibromochloromethane	"	"	"		0.500	ND	"	
1,2-Dibromo-3-chloropropane	"	"	"		0.390	ND	"	
1,2-Dibromoethane	"	"	"		0.380	ND	"	
1,2-Dichlorobenzene	"	"	"		0.500	ND	"	
1,3-Dichlorobenzene	"	"	"		0.500	ND	"	
1,4-Dichlorobenzene	"	"	"		0.500	ND	"	
Dichlorodifluoromethane	"	"	"		0.500	ND	"	
1,1-Dichloroethane	"	"	"		0.500	ND	"	
1,2-Dichloroethane	"	"	"		0.500	ND	"	
1,1-Dichloroethene	"	"	"		0.500	ND	"	
cis-1,2-Dichloroethene	"	"	"		0.500	ND	"	
trans-1,2-Dichloroethene	"	"	"		0.500	ND	"	
1,2-Dichloropropane	"	"	"		0.500	ND	"	
1,3-Dichloropropane	"	"	"		0.500	ND	"	
2,2-Dichloropropane	"	"	"		0.500	ND	"	
Di-isopropyl ether	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Hexachlorobutadiene	"	"	"		5.00	ND	"	
Isopropylbenzene	"	"	"		0.500	ND	"	
p-Isopropyltoluene	"	"	"		0.500	ND	"	
Methylene chloride	"	"	"		0.530	ND	"	
Methyl tert-butyl ether	"	"	"		0.500	ND	"	
Naphthalene	"	"	"		2.00	ND	"	
n-Propylbenzene	"	"	"		0.500	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"		0.350	ND	"	

Great Lakes Analytical--Oak Creek

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WDNR Volatile Organic Compounds by Method 8021 (Blanks)
Great Lakes Analytical--Oak Creek

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
EQUIPMENT BLANK (continued)			**W108120-08**				**Water**	
Tetrachloroethene	1080057	8/17/01	8/20/01		0.500	ND	ug/l	
Toluene	"	"	"		0.500	ND	"	
1,2,3-Trichlorobenzene	"	"	"		2.00	ND	"	
1,2,4-Trichlorobenzene	"	"	"		2.00	ND	"	
1,1,1-Trichloroethane	"	"	"		0.500	ND	"	
1,1,2-Trichloroethane	"	"	"		0.160	ND	"	
Trichloroethene	"	"	"		0.500	ND	"	
Trichlorofluoromethane	"	"	"		0.500	ND	"	
1,2,4-Trimethylbenzene	"	"	"		1.00	ND	"	
1,3,5-Trimethylbenzene	"	"	"		1.00	ND	"	
Vinyl chloride	"	"	"		0.170	ND	"	
Total Xylenes	"	"	"		0.500	ND	"	
Surrogate: 1-Cl-4-FB (ELCD)	"	"	"	*80.0-120*		*103*	*%*	
Surrogate: 1-Cl-4-FB (PID)	"	"	"	*80.0-120*		*96.3*	"	

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Total Metals by EPA 6000/7000 Series Methods
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
Tank Fill			W108120-01				Soil (WI)	1
Lead	1080361	8/18/01	8/20/01	EPA 6010B	1.13	**14.0**	mg/kg dry	

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Polynuclear Aromatic Compounds by EPA Method 8310
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**W108120-03**				**Water**	1
Acenaphthene	1080370	8/20/01	8/21/01		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benz (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.0200	**0.847**	"	
Benzo (b) fluoranthene	"	"	"		0.0200	ND	"	
Benzo (ghi) perylene	"	"	"		5.00	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.0200	**8.68**	"	
Dibenz (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		5.00	ND	"	
Fluorene	"	"	"		5.00	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.200	ND	"	
1-Methylnaphthalene	"	"	"		5.00	ND	"	
2-Methylnaphthalene	"	"	"		5.00	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		5.00	ND	"	
Surrogate: Carbazole	"	"	"	*24.5-122*		*121*	*%*	
MW-2			**W108120-04**				**Water**	1
Acenaphthene	1080370	8/20/01	8/21/01		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benz (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.0200	ND	"	
Benzo (b) fluoranthene	"	"	"		0.0200	ND	"	
Benzo (ghi) perylene	"	"	"		5.00	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.0200	**3.90**	"	
Dibenz (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		5.00	ND	"	
Fluorene	"	"	"		5.00	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.200	ND	"	
1-Methylnaphthalene	"	"	"		5.00	ND	"	
2-Methylnaphthalene	"	"	"		5.00	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	

Great Lakes Analytical--Oak Creek

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Polynuclear Aromatic Compounds by EPA Method 8310
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-2 (continued)			**W108120-04**				**Water**	**1**
Pyrene	1080370	8/20/01	8/21/01		5.00	ND	ug/l	
Surrogate: Carbazole	"	"	"	*24.5-122*		*116*	*%*	
MW-3			**W108120-05**				**Water**	**1**
Acenaphthene	1080370	8/20/01	8/21/01		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benz (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.0200	ND	"	
Benzo (b) fluoranthene	"	"	"		0.0200	ND	"	
Benzo (ghi) perylene	"	"	"		5.00	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.0200	**18.9**	"	
Dibenz (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		5.00	ND	"	
Fluorene	"	"	"		5.00	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.200	ND	"	
1-Methylnaphthalene	"	"	"		5.00	ND	"	
2-Methylnaphthalene	"	"	"		5.00	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		5.00	ND	"	
Surrogate: Carbazole	"	"	"	*24.5-122*		*72.8*	*%*	
Dup.			**W108120-06**				**Water**	**1**
Acenaphthene	1080370	8/20/01	8/21/01		5.00	ND	ug/l	
Acenaphthylene	"	"	"		5.00	ND	"	
Anthracene	"	"	"		5.00	ND	"	
Benz (a) anthracene	"	"	"		0.100	ND	"	
Benzo (a) pyrene	"	"	"		0.0200	**1.04**	"	
Benzo (b) fluoranthene	"	"	"		0.0200	ND	"	
Benzo (ghi) perylene	"	"	"		5.00	ND	"	
Benzo (k) fluoranthene	"	"	"		0.100	ND	"	
Chrysene	"	"	"		0.0200	**7.23**	"	
Dibenz (a,h) anthracene	"	"	"		0.100	ND	"	
Fluoranthene	"	"	"		5.00	ND	"	
Fluorene	"	"	"		5.00	ND	"	
Indeno (1,2,3-cd) pyrene	"	"	"		0.200	ND	"	

Great Lakes Analytical--Oak Creek

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Polynuclear Aromatic Compounds by EPA Method 8310
Great Lakes Analytical

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Dup. (continued)			**W108120-06**				**Water**	**1**
1-Methylnaphthalene	1080370	8/20/01	8/21/01		5.00	ND	ug/l	
2-Methylnaphthalene	"	"	"		5.00	ND	"	
Naphthalene	"	"	"		5.00	ND	"	
Phenanthrene	"	"	"		5.00	ND	"	
Pyrene	"	"	"		5.00	ND	"	
Surrogate: Carbazole	"	"	"	*24.5-122*		*121*	*%*	

Great Lakes Analytical--Oak Creek

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Dry Weight Determination
Great Lakes Analytical--Oak Creek

Sample Name	Lab ID	Matrix	Result	Units
Tank Fill	W108120-01	Soil (WI)	88.3	%
GP-1 2-4'	W108120-09	Soil (WI)	85.1	%
GP-1 8-10'	W108120-10	Soil (WI)	86.2	%
GP-2 2-4'	W108120-11	Soil (WI)	85.9	%
GP-2 8-10'	W108120-12	Soil (WI)	85.7	%

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Diesel Range Organics (DRO) by WDNR DRO/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080047	**Date Prepared: 8/15/01**					**Extraction Method: EPA 3550B**				
Blank	**1080047-BLK1**									
Diesel Range Organics (DRO)	8/15/01			**ND**	mg/kg dry	**5.00**				
LCS	**1080047-BS1**									
Diesel Range Organics (DRO)	8/16/01	38.7		33.6	mg/kg dry	70.0-120	86.8			
LCS Dup	**1080047-BSD1**									
Diesel Range Organics (DRO)	8/15/01	39.7		42.9	mg/kg dry	70.0-120	108	20.0	21.8	
Batch: 1080048	**Date Prepared: 8/15/01**					**Extraction Method: EPA 3510C**				
Blank	**1080048-BLK1**									
Diesel Range Organics (DRO)	8/15/01			**ND**	mg/l	**0.100**				
LCS	**1080048-BS1**									
Diesel Range Organics (DRO)	8/16/01	1.00		0.898	mg/l	75.0-115	89.8			
LCS Dup	**1080048-BSD1**									
Diesel Range Organics (DRO)	8/15/01	1.00		0.847	mg/l	75.0-115	84.7	20.0	5.85	

Great Lakes Analytical--Oak Creek

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Petroleum Volatile Organic Compounds (PVOC) by Method 8021B/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080049	**Date Prepared: 8/15/01**					**Extraction Method: EPA 5030B [MeOH]**				
Blank	**1080049-BLK1**									
Benzene	8/15/01			**ND**	ug/kg dry	**25.0**				
Surrogate: 1-Cl-4-FB (PID)	"	*1000*		*1030*	"	*80.0-120*	*103*			
LCS	**1080049-BS1**									
Benzene	8/15/01	1000		951	ug/kg dry	28.8-155	95.1			
Surrogate: 1-Cl-4-FB (PID)	"	*1000*		*976*	"	*80.0-120*	*97.6*			
LCS Dup	**1080049-BSD1**									
Benzene	8/15/01	1000		1000	ug/kg dry	28.8-155	100	66.2	5.02	
Surrogate: 1-Cl-4-FB (PID)	"	*1000*		*1010*	"	*80.0-120*	*101*			

Great Lakes Analytical--Oak Creek

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WDNR Volatile Organic Compounds by Method 8021/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080057	**Date Prepared: 8/17/01**				**Extraction Method: EPA 5030B (P/T)**					
Blank	**1080057-BLK1**									
Benzene	8/21/01			ND	ug/l	0.500				
Bromobenzene	"			ND	"	0.500				
Bromodichloromethane	"			ND	"	0.500				
n-Butylbenzene	"			ND	"	0.500				
sec-Butylbenzene	"			ND	"	0.500				
tert-Butylbenzene	"			ND	"	0.500				
Carbon tetrachloride	"			ND	"	0.500				
Chlorobenzene	"			ND	"	0.500				
Chloroethane	"			ND	"	0.500				
Chloroform	"			ND	"	0.140				
Chloromethane	"			ND	"	0.600				
2-Chlorotoluene	"			ND	"	0.500				
4-Chlorotoluene	"			ND	"	0.500				
Dibromochloromethane	"			ND	"	0.500				
1,2-Dibromo-3-chloropropane	"			ND	"	0.390				
1,2-Dibromoethane	"			ND	"	0.380				
1,2-Dichlorobenzene	"			ND	"	0.500				
1,3-Dichlorobenzene	"			ND	"	0.500				
1,4-Dichlorobenzene	"			ND	"	0.500				
Dichlorodifluoromethane	"			ND	"	0.500				
1,1-Dichloroethane	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
1,1-Dichloroethene	"			ND	"	0.500				
cis-1,2-Dichloroethene	"			ND	"	0.500				
trans-1,2-Dichloroethene	"			ND	"	0.500				
1,2-Dichloropropane	"			ND	"	0.500				
1,3-Dichloropropane	"			ND	"	0.500				
2,2-Dichloropropane	"			ND	"	0.500				
Di-isopropyl ether	"			ND	"	5.00				
Ethylbenzene	"			ND	"	0.500				
Hexachlorobutadiene	"			ND	"	5.00				
Isopropylbenzene	"			ND	"	0.500				
p-Isopropyltoluene	"			ND	"	0.500				
Methylene chloride	"			ND	"	0.530				
Methyl tert-butyl ether	"			ND	"	0.500				
Naphthalene	"			ND	"	2.00				
n-Propylbenzene	"			ND	"	0.500				

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Sigma Environmental Services, Inc.	Project: #6953	Sampled:	8/14/01
220 E. Ryan Road	Project Number: #6953	Received:	8/14/01
Oak Creek, WI 53154	Project Manager: Jim Westerman	Reported:	8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**1080057-BLK1**									
1,1,2,2-Tetrachloroethane	8/21/01			**ND**	ug/l	**0.350**				
Tetrachloroethene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
1,2,3-Trichlorobenzene	"			**ND**	"	**2.00**				
1,2,4-Trichlorobenzene	"			**ND**	"	**2.00**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.160**				
Trichloroethene	"			**ND**	"	**0.500**				
Trichlorofluoromethane	"			**ND**	"	**0.500**				
1,2,4-Trimethylbenzene	"			**ND**	"	**1.00**				
1,3,5-Trimethylbenzene	"			**ND**	"	**1.00**				
Vinyl chloride	"			**ND**	"	**0.170**				
Total Xylenes	"			**ND**	"	**0.500**				
Surrogate: 1-Cl-4-FB (ELCD)	"	*10.0*		*10.2*	"	*80.0-120*	*102*			
Surrogate: 1-Cl-4-FB (PID)	"	*10.0*		*11.2*	"	*80.0-120*	*112*			
LCS	**1080057-BS1**									
Benzene	8/21/01	10.0		10.1	ug/l	85.0-115	101			
Bromobenzene	"	10.0		10.3	"	85.0-115	103			
Bromodichloromethane	"	10.0		11.1	"	85.0-115	111			
n-Butylbenzene	"	10.0		10.6	"	85.0-115	106			
sec-Butylbenzene	"	10.0		10.1	"	85.0-115	101			
tert-Butylbenzene	"	10.0		10.4	"	85.0-115	104			
Carbon tetrachloride	"	10.0		11.5	"	85.0-115	115			
Chlorobenzene	"	10.0		9.90	"	85.0-115	99.0			
Chloroethane	"	10.0		10.1	"	85.0-115	101			
Chloroform	"	10.0		11.0	"	85.0-115	110			
Chloromethane	"	10.0		9.52	"	85.0-115	95.2			
2-Chlorotoluene	"	10.0		10.3	"	85.0-115	103			
4-Chlorotoluene	"	10.0		9.88	"	85.0-115	98.8			
Dibromochloromethane	"	10.0		11.1	"	85.0-115	111			
1,2-Dibromo-3-chloropropane	"	10.0		10.7	"	85.0-115	107			
1,2-Dibromoethane	"	10.0		9.96	"	85.0-115	99.6			
1,2-Dichlorobenzene	"	10.0		10.3	"	85.0-115	103			
1,3-Dichlorobenzene	"	10.0		10.0	"	85.0-115	100			
1,4-Dichlorobenzene	"	10.0		10.4	"	85.0-115	104			
Dichlorodifluoromethane	"	10.0		8.90	"	85.0-115	89.0			
1,1-Dichloroethane	"	10.0		9.70	"	85.0-115	97.0			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**1080057-BS1**									
1,2-Dichloroethane	8/21/01	10.0		9.14	ug/l	85.0-115	91.4			
1,1-Dichloroethene	"	10.0		10.1	"	85.0-115	101			
cis-1,2-Dichloroethene	"	10.0		10.5	"	85.0-115	105			
trans-1,2-Dichloroethene	"	10.0		9.89	"	85.0-115	98.9			
1,2-Dichloropropane	"	10.0		10.2	"	85.0-115	102			
1,3-Dichloropropane	"	10.0		10.3	"	85.0-115	103			
2,2-Dichloropropane	"	10.0		11.1	"	85.0-115	111			
Di-isopropyl ether	"	10.0		9.27	"	85.0-115	92.7			
Ethylbenzene	"	10.0		9.79	"	85.0-115	97.9			
Hexachlorobutadiene	"	10.0		11.1	"	85.0-115	111			
Isopropylbenzene	"	10.0		10.3	"	85.0-115	103			
p-Isopropyltoluene	"	10.0		11.0	"	85.0-115	110			
Methylene chloride	"	10.0		9.79	"	85.0-115	97.9			
Methyl tert-butyl ether	"	10.0		9.82	"	85.0-115	98.2			
Naphthalene	"	10.0		8.31	"	85.0-115	83.1			
n-Propylbenzene	"	10.0		10.0	"	85.0-115	100			
1,1,2,2-Tetrachloroethane	"	10.0		9.86	"	85.0-115	98.6			
Tetrachloroethene	"	10.0		9.85	"	85.0-115	98.5			
Toluene	"	10.0		9.99	"	85.0-115	99.9			
1,2,3-Trichlorobenzene	"	10.0		9.86	"	85.0-115	98.6			
1,2,4-Trichlorobenzene	"	10.0		9.56	"	85.0-115	95.6			
1,1,1-Trichloroethane	"	10.0		10.0	"	85.0-115	100			
1,1,2-Trichloroethane	"	10.0		10.0	"	85.0-115	100			
Trichloroethene	"	10.0		10.5	"	85.0-115	105			
Trichlorofluoromethane	"	10.0		11.4	"	85.0-115	114			
1,2,4-Trimethylbenzene	"	10.0		9.99	"	85.0-115	99.9			
1,3,5-Trimethylbenzene	"	10.0		10.3	"	85.0-115	103			
Vinyl chloride	"	10.0		10.5	"	85.0-115	105			
Total Xylenes	"	30.0		31.8	"	85.0-115	106			
Surrogate: 1-Cl-4-FB (ELCD)	"	*10.0*		*8.68*	"	*80.0-120*	*86.8*			
Surrogate: 1-Cl-4-FB (PID)	"	*10.0*		*10.1*	"	*80.0-120*	*101*			
Matrix Spike	**1080057-MS1**		**W108139-01**							
Benzene	8/21/01	10.0	ND	9.56	ug/l	75.0-125	**95.6**			
Bromobenzene	"	10.0	ND	9.79	"	75.0-125	**97.9**			
Bromodichloromethane	"	10.0	ND	11.7	"	75.0-125	**117**			
n-Butylbenzene	"	10.0	ND	10.1	"	75.0-125	**101**			
sec-Butylbenzene	"	10.0	ND	9.67	"	75.0-125	**96.7**			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**1080057-MS1**		**W108139-01**							
tert-Butylbenzene	8/21/01	10.0	ND	9.94	ug/l	75.0-125	**99.4**			
Carbon tetrachloride	"	10.0	ND	10.9	"	75.0-125	**109**			
Chlorobenzene	"	10.0	ND	9.48	"	75.0-125	**94.8**			
Chloroethane	"	10.0	ND	9.45	"	75.0-125	**94.5**			
Chloroform	"	10.0	ND	9.29	"	75.0-125	**92.9**			
Chloromethane	"	10.0	ND	9.57	"	75.0-125	**95.7**			
2-Chlorotoluene	"	10.0	ND	10.1	"	75.0-125	**101**			
4-Chlorotoluene	"	10.0	ND	9.43	"	75.0-125	**94.3**			
Dibromochloromethane	"	10.0	ND	10.3	"	75.0-125	**103**			
1,2-Dibromo-3-chloropropane	"	10.0	ND	12.4	"	75.0-125	**124**			
1,2-Dibromoethane	"	10.0	ND	9.49	"	75.0-125	**94.9**			
1,2-Dichlorobenzene	"	10.0	ND	9.74	"	75.0-125	**97.4**			
1,3-Dichlorobenzene	"	10.0	ND	9.55	"	75.0-125	**95.5**			
1,4-Dichlorobenzene	"	10.0	ND	9.58	"	75.0-125	**95.8**			
Dichlorodifluoromethane	"	10.0	ND	7.62	"	75.0-125	**76.2**			
1,1-Dichloroethane	"	10.0	ND	9.34	"	75.0-125	**93.4**			
1,2-Dichloroethane	"	10.0	ND	8.80	"	75.0-125	**88.0**			
1,1-Dichloroethene	"	10.0	ND	10.4	"	75.0-125	**104**			
cis-1,2-Dichloroethene	"	10.0	ND	10.8	"	75.0-125	**108**			
trans-1,2-Dichloroethene	"	10.0	ND	10.1	"	75.0-125	**101**			
1,2-Dichloropropane	"	10.0	ND	9.69	"	75.0-125	**96.9**			
1,3-Dichloropropane	"	10.0	ND	9.74	"	75.0-125	**97.4**			
2,2-Dichloropropane	"	10.0	ND	11.6	"	75.0-125	**116**			
Di-isopropyl ether	"	10.0	ND	9.62	"	75.0-125	**96.2**			
Ethylbenzene	"	10.0	ND	9.44	"	75.0-125	**94.4**			
Hexachlorobutadiene	"	10.0	ND	12.4	"	75.0-125	**124**			
Isopropylbenzene	"	10.0	ND	9.80	"	75.0-125	**98.0**			
p-Isopropyltoluene	"	10.0	ND	10.3	"	75.0-125	**103**			
Methylene chloride	"	10.0	ND	9.46	"	75.0-125	**94.6**			
Methyl tert-butyl ether	"	10.0	ND	9.60	"	75.0-125	**96.0**			
Naphthalene	"	10.0	ND	8.27	"	75.0-125	**82.7**			
n-Propylbenzene	"	10.0	ND	9.67	"	75.0-125	**96.7**			
1,1,2,2-Tetrachloroethane	"	10.0	ND	9.44	"	75.0-125	**94.4**			
Tetrachloroethene	"	10.0	ND	9.44	"	75.0-125	**94.4**			
Toluene	"	10.0	ND	9.77	"	75.0-125	**97.7**			
1,2,3-Trichlorobenzene	"	10.0	ND	9.71	"	75.0-125	**97.1**			
1,2,4-Trichlorobenzene	"	10.0	ND	9.39	"	75.0-125	**93.9**			
1,1,1-Trichloroethane	"	10.0	ND	12.1	"	75.0-125	**121**			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: #6953	Sampled:	8/14/01
220 E. Ryan Road	Project Number: #6953	Received:	8/14/01
Oak Creek, WI 53154	Project Manager: Jim Westerman	Reported:	8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike (continued)	**1080057-MS1**		**W108139-01**							
1,1,2-Trichloroethane	8/21/01	10.0	ND	11.2	ug/l	75.0-125	**112**			
Trichloroethene	"	10.0	ND	9.88	"	75.0-125	**98.8**			
Trichlorofluoromethane	"	10.0	ND	12.1	"	75.0-125	**121**			
1,2,4-Trimethylbenzene	"	10.0	ND	9.58	"	75.0-125	**95.8**			
1,3,5-Trimethylbenzene	"	10.0	ND	9.81	"	75.0-125	**98.1**			
Vinyl chloride	"	10.0	ND	10.2	"	75.0-125	**102**			
Total Xylenes	"	30.0	ND	30.7	"	75.0-125	**102**			
Surrogate: 1-Cl-4-FB (ELCD)	"	*10.0*		*8.75*	"	*80.0-120*	*87.5*			
Surrogate: 1-Cl-4-FB (PID)	"	*10.0*		*10.0*	"	*80.0-120*	*100*			
Matrix Spike Dup	**1080057-MSD1**		**W108139-01**							
Benzene	8/21/01	10.0	ND	8.72	ug/l	75.0-125	**87.2**	20.0	**9.19**	
Bromobenzene	"	10.0	ND	8.76	"	75.0-125	**87.6**	20.0	**11.1**	
Bromodichloromethane	"	10.0	ND	10.7	"	75.0-125	**107**	20.0	**8.93**	
n-Butylbenzene	"	10.0	ND	9.16	"	75.0-125	**91.6**	20.0	**9.76**	
sec-Butylbenzene	"	10.0	ND	8.72	"	75.0-125	**87.2**	20.0	**10.3**	
tert-Butylbenzene	"	10.0	ND	8.92	"	75.0-125	**89.2**	20.0	**10.8**	
Carbon tetrachloride	"	10.0	ND	10.0	"	75.0-125	**100**	20.0	**8.61**	
Chlorobenzene	"	10.0	ND	8.53	"	75.0-125	**85.3**	20.0	**10.5**	
Chloroethane	"	10.0	ND	9.02	"	75.0-125	**90.2**	20.0	**4.66**	
Chloroform	"	10.0	ND	8.10	"	75.0-125	**81.0**	20.0	**13.7**	
Chloromethane	"	10.0	ND	8.72	"	75.0-125	**87.2**	20.0	**9.29**	
2-Chlorotoluene	"	10.0	ND	8.75	"	75.0-125	**87.5**	20.0	**14.3**	
4-Chlorotoluene	"	10.0	ND	8.43	"	75.0-125	**84.3**	20.0	**11.2**	
Dibromochloromethane	"	10.0	ND	9.29	"	75.0-125	**92.9**	20.0	**10.3**	
1,2-Dibromo-3-chloropropane	"	10.0	ND	12.4	"	75.0-125	**124**	20.0	**0**	
1,2-Dibromoethane	"	10.0	ND	8.45	"	75.0-125	**84.5**	20.0	**11.6**	
1,2-Dichlorobenzene	"	10.0	ND	8.71	"	75.0-125	**87.1**	20.0	**11.2**	
1,3-Dichlorobenzene	"	10.0	ND	8.52	"	75.0-125	**85.2**	20.0	**11.4**	
1,4-Dichlorobenzene	"	10.0	ND	8.54	"	75.0-125	**85.4**	20.0	**11.5**	
Dichlorodifluoromethane	"	10.0	ND	7.61	"	75.0-125	**76.1**	20.0	**0.131**	
1,1-Dichloroethane	"	10.0	ND	8.64	"	75.0-125	**86.4**	20.0	**7.79**	
1,2-Dichloroethane	"	10.0	ND	7.79	"	75.0-125	**77.9**	20.0	**12.2**	
1,1-Dichloroethene	"	10.0	ND	9.58	"	75.0-125	**95.8**	20.0	**8.21**	
cis-1,2-Dichloroethene	"	10.0	ND	9.68	"	75.0-125	**96.8**	20.0	**10.9**	
trans-1,2-Dichloroethene	"	10.0	ND	9.11	"	75.0-125	**91.1**	20.0	**10.3**	
1,2-Dichloropropane	"	10.0	ND	8.85	"	75.0-125	**88.5**	20.0	**9.06**	
1,3-Dichloropropane	"	10.0	ND	8.79	"	75.0-125	**87.9**	20.0	**10.3**	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike Dup (continued)	**1080057-MSD1**		**W108139-01**							
2,2-Dichloropropane	8/21/01	10.0	ND	10.8	ug/l	75.0-125	**108**	20.0	**7.14**	
Di-isopropyl ether	"	10.0	ND	8.61	"	75.0-125	**86.1**	20.0	**11.1**	
Ethylbenzene	"	10.0	ND	8.49	"	75.0-125	**84.9**	20.0	**10.6**	
Hexachlorobutadiene	"	10.0	ND	12.1	"	75.0-125	**121**	20.0	**2.45**	
Isopropylbenzene	"	10.0	ND	8.83	"	75.0-125	**88.3**	20.0	**10.4**	
p-Isopropyltoluene	"	10.0	ND	9.30	"	75.0-125	**93.0**	20.0	**10.2**	
Methylene chloride	"	10.0	ND	8.71	"	75.0-125	**87.1**	20.0	**8.26**	
Methyl tert-butyl ether	"	10.0	ND	8.59	"	75.0-125	**85.9**	20.0	**11.1**	
Naphthalene	"	10.0	ND	8.03	"	75.0-125	**80.3**	20.0	**2.94**	
n-Propylbenzene	"	10.0	ND	8.66	"	75.0-125	**86.6**	20.0	**11.0**	
1,1,2,2-Tetrachloroethane	"	10.0	ND	8.72	"	75.0-125	**87.2**	20.0	**7.93**	
Tetrachloroethene	"	10.0	ND	8.41	"	75.0-125	**84.1**	20.0	**11.5**	
Toluene	"	10.0	ND	8.68	"	75.0-125	**86.8**	20.0	**11.8**	
1,2,3-Trichlorobenzene	"	10.0	ND	9.39	"	75.0-125	**93.9**	20.0	**3.35**	
1,2,4-Trichlorobenzene	"	10.0	ND	8.74	"	75.0-125	**87.4**	20.0	**7.17**	
1,1,1-Trichloroethane	"	10.0	ND	10.8	"	75.0-125	**108**	20.0	**11.4**	
1,1,2-Trichloroethane	"	10.0	ND	10.1	"	75.0-125	**101**	20.0	**10.3**	
Trichloroethene	"	10.0	ND	9.04	"	75.0-125	**90.4**	20.0	**8.88**	
Trichlorofluoromethane	"	10.0	ND	10.6	"	75.0-125	**106**	20.0	**13.2**	
1,2,4-Trimethylbenzene	"	10.0	ND	8.62	"	75.0-125	**86.2**	20.0	**10.5**	
1,3,5-Trimethylbenzene	"	10.0	ND	8.84	"	75.0-125	**88.4**	20.0	**10.4**	
Vinyl chloride	"	10.0	ND	9.32	"	75.0-125	**93.2**	20.0	**9.02**	
Total Xylenes	"	30.0	ND	27.5	"	75.0-125	**91.7**	20.0	**10.6**	
Surrogate: 1-Cl-4-FB (ELCD)	"	*10.0*		*8.76*	"	*80.0-120*	*87.6*			
Surrogate: 1-Cl-4-FB (PID)	"	*10.0*		*10.0*	"	*80.0-120*	*100*			

Great Lakes Analytical--Oak Creek

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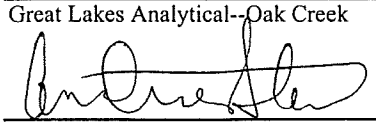
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021 (Blanks)/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080057	**Date Prepared: 8/17/01**					**Extraction Method: EPA 5030B (P/T)**				
Blank	**1080057-BLK1**									
Benzene	8/21/01			ND	ug/l	0.500				
Bromobenzene	"			ND	"	0.500				
Bromodichloromethane	"			ND	"	0.500				
n-Butylbenzene	"			ND	"	0.500				
sec-Butylbenzene	"			ND	"	0.500				
tert-Butylbenzene	"			ND	"	0.500				
Carbon tetrachloride	"			ND	"	0.500				
Chlorobenzene	"			ND	"	0.500				
Chloroethane	"			ND	"	0.500				
Chloroform	"			ND	"	0.140				
Chloromethane	"			ND	"	0.600				
2-Chlorotoluene	"			ND	"	0.500				
4-Chlorotoluene	"			ND	"	0.500				
Dibromochloromethane	"			ND	"	0.500				
1,2-Dibromo-3-chloropropane	"			ND	"	0.390				
1,2-Dibromoethane	"			ND	"	0.380				
1,2-Dichlorobenzene	"			ND	"	0.500				
1,3-Dichlorobenzene	"			ND	"	0.500				
1,4-Dichlorobenzene	"			ND	"	0.500				
Dichlorodifluoromethane	"			ND	"	0.500				
1,1-Dichloroethane	"			ND	"	0.500				
1,2-Dichloroethane	"			ND	"	0.500				
1,1-Dichloroethene	"			ND	"	0.500				
cis-1,2-Dichloroethene	"			ND	"	0.500				
trans-1,2-Dichloroethene	"			ND	"	0.500				
1,2-Dichloropropane	"			ND	"	0.500				
1,3-Dichloropropane	"			ND	"	0.500				
2,2-Dichloropropane	"			ND	"	0.500				
Di-isopropyl ether	"			ND	"	5.00				
Ethylbenzene	"			ND	"	0.500				
Hexachlorobutadiene	"			ND	"	5.00				
Isopropylbenzene	"			ND	"	0.500				
p-Isopropyltoluene	"			ND	"	0.500				
Methylene chloride	"			ND	"	0.530				
Methyl tert-butyl ether	"			ND	"	0.500				
Naphthalene	"			ND	"	2.00				
n-Propylbenzene	"			ND	"	0.500				

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*



Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

WDNR Volatile Organic Compounds by Method 8021 (Blanks)/Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Blank (continued)	**1080057-BLK1**									
1,1,2,2-Tetrachloroethane	8/21/01			**ND**	ug/l	**0.350**				
Tetrachloroethene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
1,2,3-Trichlorobenzene	"			**ND**	"	**2.00**				
1,2,4-Trichlorobenzene	"			**ND**	"	**2.00**				
1,1,1-Trichloroethane	"			**ND**	"	**0.500**				
1,1,2-Trichloroethane	"			**ND**	"	**0.160**				
Trichloroethene	"			**ND**	"	**0.500**				
Trichlorofluoromethane	"			**ND**	"	**0.500**				
1,2,4-Trimethylbenzene	"			**ND**	"	**1.00**				
1,3,5-Trimethylbenzene	"			**ND**	"	**1.00**				
Vinyl chloride	"			**ND**	"	**0.170**				
Total Xylenes	"			**ND**	"	**0.500**				
Surrogate: 1-Cl-4-FB (ELCD)	"	*10.0*		*10.2*	"	*80.0-120*	*102*			
Surrogate: 1-Cl-4-FB (PID)	"	*10.0*		*11.2*	"	*80.0-120*	*112*			
LCS	**1080057-BS1**									
Surrogate: 1-Cl-4-FB (ELCD)	*8/21/01*	*10.0*		*8.68*	*ug/l*	*80.0-120*	*86.8*			
Surrogate: 1-Cl-4-FB (PID)	"	*10.0*		*10.1*	"	*80.0-120*	*101*			
Matrix Spike	**1080057-MS1**	**W108139-01**								
Surrogate: 1-Cl-4-FB (ELCD)	*8/21/01*	*10.0*		*8.75*	*ug/l*	*80.0-120*	*87.5*			
Surrogate: 1-Cl-4-FB (PID)	"	*10.0*		*10.0*	"	*80.0-120*	*100*			
Matrix Spike Dup	**1080057-MSD1**	**W108139-01**								
Surrogate: 1-Cl-4-FB (ELCD)	*8/21/01*	*10.0*		*8.76*	*ug/l*	*80.0-120*	*87.6*			
Surrogate: 1-Cl-4-FB (PID)	"	*10.0*		*10.0*	"	*80.0-120*	*100*			

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: #6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number: #6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager: Jim Westerman	Reported: 8/24/01 13:12

Total Metals by EPA 6000/7000 Series Methods/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080361	**Date Prepared: 8/18/01**					**Extraction Method: EPA 3050B**				
Blank	**1080361-BLK1**									
Lead	8/20/01			**ND**	mg/kg dry	**1.00**				
LCS	**1080361-BS1**									
Lead	8/20/01	201		214	mg/kg dry	84.0-109	106			
Matrix Spike	**1080361-MS1**		**B108223-01**							
Lead	8/20/01	230	10.6	208	mg/kg dry	52.0-125	**85.8**			
Matrix Spike Dup	**1080361-MSD1**		**B108223-01**							
Lead	8/20/01	224	10.6	200	mg/kg dry	52.0-125	**84.6**	14.0	**1.41**	

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
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Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

Polynuclear Aromatic Compounds by EPA Method 8310/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 1080370	**Date Prepared: 8/20/01**					**Extraction Method: EPA 3510C**				
Blank	**1080370-BLK1**									
Acenaphthene	8/23/01			**ND**	ug/l	**5.00**				
Acenaphthylene	"			**ND**	"	**5.00**				
Anthracene	"			**ND**	"	**5.00**				
Benz (a) anthracene	"			**ND**	"	**0.100**				
Benzo (a) pyrene	"			**ND**	"	**0.0200**				
Benzo (b) fluoranthene	"			**ND**	"	**0.0200**				
Benzo (ghi) perylene	"			**ND**	"	**5.00**				
Benzo (k) fluoranthene	"			**ND**	"	**0.100**				
Chrysene	"			**ND**	"	**0.0200**				
Dibenz (a,h) anthracene	"			**ND**	"	**0.100**				
Fluoranthene	"			**ND**	"	**5.00**				
Fluorene	"			**ND**	"	**5.00**				
Indeno (1,2,3-cd) pyrene	"			**ND**	"	**0.200**				
1-Methylnaphthalene	"			**ND**	"	**5.00**				
2-Methylnaphthalene	"			**ND**	"	**5.00**				
Naphthalene	"			**ND**	"	**5.00**				
Phenanthrene	"			**ND**	"	**5.00**				
Pyrene	"			**ND**	"	**5.00**				
Surrogate: Carbazole	"	*0.500*		*0.389*	"	*24.5-122*	*77.8*			
LCS	**1080370-BS1**									
Acenaphthene	8/23/01	2.00		1.18	ug/l	23.9-107	59.0			
Acenaphthylene	"	2.00		1.46	"	21.6-101	73.0			
Anthracene	"	2.00		1.33	"	24.8-107	66.5			
Benz (a) anthracene	"	2.00		1.44	"	32.9-100	72.0			
Benzo (a) pyrene	"	2.00		1.44	"	23.5-113	72.0			
Benzo (b) fluoranthene	"	2.00		1.33	"	34.5-126	66.5			
Benzo (ghi) perylene	"	2.00		1.24	"	35.7-97.5	62.0			
Benzo (k) fluoranthene	"	2.00		1.34	"	42.9-113	67.0			
Chrysene	"	2.00		1.39	"	39.9-110	69.5			
Dibenz (a,h) anthracene	"	2.00		1.06	"	31.3-92.5	53.0			
Fluoranthene	"	2.00		1.52	"	36.1-105	76.0			
Fluorene	"	2.00		1.38	"	36.6-99.6	69.0			
Indeno (1,2,3-cd) pyrene	"	2.00		1.25	"	41.5-95.7	62.5			
1-Methylnaphthalene	"	2.00		1.10	"	20.5-110	55.0			
2-Methylnaphthalene	"	2.00		1.11	"	20.9-109	55.5			
Naphthalene	"	2.00		1.11	"	22.0-99.8	55.5			

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project:	#6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number:	#6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager:	Jim Westerman	Reported: 8/24/01 13:12

Polynuclear Aromatic Compounds by EPA Method 8310/Quality Control
Great Lakes Analytical

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS (continued)	**1080370-BS1**									
Phenanthrene	8/23/01	2.00		1.24	ug/l	25.8-115	62.0			
Pyrene	"	2.00		1.36	"	31.5-112	68.0			
Surrogate: Carbazole	"	*0.500*		*0.305*	"	*24.5-122*	*61.0*			
LCS Dup	**1080370-BSD1**									
Acenaphthene	8/23/01	2.00		1.26	ug/l	23.9-107	63.0	62.5	6.56	
Acenaphthylene	"	2.00		1.50	"	21.6-101	75.0	60.7	2.70	
Anthracene	"	2.00		1.41	"	24.8-107	70.5	47.4	5.84	
Benz (a) anthracene	"	2.00		1.41	"	32.9-100	70.5	47.4	2.11	
Benzo (a) pyrene	"	2.00		1.44	"	23.5-113	72.0	45.2	0	
Benzo (b) fluoranthene	"	2.00		1.30	"	34.5-126	65.0	52.4	2.28	
Benzo (ghi) perylene	"	2.00		1.14	"	35.7-97.5	57.0	45.4	8.40	
Benzo (k) fluoranthene	"	2.00		1.31	"	42.9-113	65.5	49.6	2.26	
Chrysene	"	2.00		1.37	"	39.9-110	68.5	51.7	1.45	
Dibenz (a,h) anthracene	"	2.00		1.05	"	31.3-92.5	52.5	53.2	0.948	
Fluoranthene	"	2.00		1.51	"	36.1-105	75.5	58.8	0.660	
Fluorene	"	2.00		1.48	"	36.6-99.6	74.0	52.5	6.99	
Indeno (1,2,3-cd) pyrene	"	2.00		1.15	"	41.5-95.7	57.5	45.8	8.33	
1-Methylnaphthalene	"	2.00		1.18	"	20.5-110	59.0	50.2	7.02	
2-Methylnaphthalene	"	2.00		1.19	"	20.9-109	59.5	53.2	6.96	
Naphthalene	"	2.00		1.18	"	22.0-99.8	59.0	57.2	6.11	
Phenanthrene	"	2.00		1.38	"	25.8-115	69.0	55.9	10.7	
Pyrene	"	2.00		1.39	"	31.5-112	69.5	50.0	2.18	
Surrogate: Carbazole	"	*0.500*		*0.288*	"	*24.5-122*	*57.6*			

Great Lakes Analytical--Oak Creek

**Refer to end of report for text of notes and definitions.*

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: #6953	Sampled: 8/14/01
220 E. Ryan Road	Project Number: #6953	Received: 8/14/01
Oak Creek, WI 53154	Project Manager: Jim Westerman	Reported: 8/24/01 13:12

Notes and Definitions

#	Note
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G19	The relative percent difference (RPD) of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
T10	Diesel Range
T15	Late Elevated Baseline
T2	Late Peaks
T6	Early Peaks
T8	Diesel Pattern
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference
1	This sample was analyzed by Great Lakes Analytical in Buffalo Grove, Illinois, WDNR certification # 999917160.

Great Lakes Analytical--Oak Creek

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
1280 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772
140 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

CHAIN OF CUSTODY REPORT

Client: Sigma Env. | Bill To: Same | TAT: (STD) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.

Address: 220 E Ryan Rd | Address: | ☐ YES - TAT is critical ☐ NO - TAT is not critical | DATE RESULTS NEEDED:

Oak Creek, WI. | TEMPERATURE UPON RECEIPT: ICE

Report to: Jim W. | Phone #: (414) 768-7144 Fax #: (414) 768-7159 | State & Program: WI. | Phone #: ( ) Fax #: ( ) | Deliverable Package Needed: ☐ STD ☐ Other | Air Bill No.

Project: #6953

Sampler: Joe Sikora

PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	ANALYSIS REQUIRED: DRO	Benzene	Lead	VOC	PAH	Dry Wt.	SAMPLE CONTROL: CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	Tank Fill PID:	8/14/01	9:30	Soil	1						2	3	X	X	X		X				W108120-01
2	Trip Blank PID:	8/14/01	8:30		1							1				X					-02
3	MW-1 PID:	8/14/01	11:00	GW			4				1	5	X			X	X				-03
4	MW-2 PID:	8/14/01	11:15	GW			4				1	5	X			X	X				-04
5	MW-3 PID:	8/14/01	11:30	GW			4				1	5	X			X	X				-05
6	Dup. PID:	8/14/01	11:00	GW			3				1	4				X	X				-06
7	Trip. PID:	8/14/01	11:00	W			2					2				X					-07
8	Equip PID:	8/14/01	11:00	W			3					3				X					-08
9	GP-1 2-4' PID:	8/14/01	2:00	Soil							1	1	X								-09
10	GP-1 8-10' PID:	8/14/01	1:30	Soil							1	1	X								-10

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
M.M.	8/14/01 3:30	Laura Treadwell	8/14/01 12:20				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

pg 2.12

Client: Sigma Env. | Bill To: Same | TAT: (STD) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.

Address: 220 E Ryan Rd | Address: | ☐ YES - TAT is critical ☐ NO - TAT is not critical | DATE RESULTS NEEDED:

Oak Creek | | TEMPERATURE UPON RECEIPT: ICE

Report to: J. mW | Phone #: (414) 768-7744 Fax #: (414) 768-7758 | State & Program: WI | Phone #: ( ) Fax #: ( ) | Deliverable Package Needed: ☐ STD ☐ Other | Air Bill No.

Project: #6953

Sampler: Joe S. Kolar

PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	DRO	ANALYSIS TYPE	SAMPLE CONTROL: CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	GD-2 2-4 PID:	8/14	2:00	Soil							1	1	X				W108120-10
2	GD-2 8-10 PID:	8/14	2:30	Soil							1	1	X				√ -12
3	PID:																
4	PID:																
5	PID:																
6	PID:																
7	PID:																
8	PID:																
9	PID:																
10	PID:																

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	8/14/01 7:30	Laura Treadwell	8/14/01 12:20				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

PAGE OF

APPENDIX F

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: JIM WESTERMAN
Company: SIGMA ENVIRONMENTAL
Address: 220 E. RYAN RD.
OAK CREEK, WI
Phone: (414) 768-7144
P. O. #
Project # 6953 Quote #
Location

BILL TO: (if different from Report To info)
Name:
Company: Same
Address:
Phone: ( )

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [ ] Normal
- [x] Rush (Pre-approved by Lab)

Date Needed 9/12/01
Approved By
3 day turnaround

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	PAH					REMARKS
15080800	9/7/01	11:55	~~2~~	~~1~~	MW-1	X					2-1 liter ambers
15080801	9/7/01	12:25		1	MW-2	X					1-1 liter amb
15080802	9/7/01	13:05		1	MW-3	X					
15080803	9/7/01	—		1	DUPLICATE	X					
	~~9/7/01~~	~~11:55~~		~~1~~	~~QC-MW-1~~	~~X~~					
15080804	9/7/01	—		1	EQUIPMENT BLANK	X					1-1 liter amber
15080805	9/7/01	—		1	TRIP BLANK	X					? labeled QC Sple

RUSH

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* [signature]

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
[signature]	9/7/01 14:30	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)* [signature] — DATE/TIME 9-8-01 13:30

Del'v: Hand (Comm)
Ship. Cont. OK (Y) N N/A
Samples leaking? Y (N) N/A
Seals OK? (Y) N N/A
Rec'd on ice? (Y) N N/A (?) °C

Comments: Copy to Cindy

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

September 12, 2001

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

Attn: Jim Westerman

REPORT NO.: 080800 **PROJECT NO.: 6953**

Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received September 8, 2001.

All analyses were performed in accordance with approved methods as indicated on this report.

If you have any questions about the results, please call. Thank you for using USFilter, Enviroscan Services for your analytical needs.

Sincerely,

USFilter, Enviroscan Services

Gary L. Scharrer
Organic Laboratory Supervisor

I certify that the data contained in this report has been generated and reviewed in accordance with the USFilter, Enviroscan Services Quality Assurance Program. Exceptions, if any, are discussed in the sample narrative. Release of this Final Report is authorized as verified by the following signature.

Approved by: _____

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sample Summary

080800.2

Lab Id	Client Sample ID	Date/Time	Matrix
080800	MW-1	09/07/01 11:55	GROUNDWATER
080801	MW-2	09/07/01 12:25	GROUNDWATER
080802	MW-3	09/07/01 13:05	GROUNDWATER
080803	DUPLICATE	09/07/01	GROUNDWATER
080804	EQUIP BLANK	09/07/01	GROUNDWATER
080805	TRIP BLANK-USF	09/07/01	WATER

Sample Narrative/Sample Status

LOGIN:

GENERAL:

ANALYSES:

QA/QC:

REPORTING:

Definitions

LOD = Limit of Detection
LOQ = Limit of Quantitation
< = Less Than
COMP = Complete
SUBCON = Subcontracted analysis
mv = millivolts

µg/l = Micrograms per liter = parts per billion (ppb)
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/l = Milligrams per liter = parts per million (ppm)
mg/kg = Milligrams per kilogram = parts per million (ppm)
NOT PRES = Not Present
ppth = Parts per thousand

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.3
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **MW-1** Matrix: **GRDWTR** Sample Date/Time: **09/07/01 11:55** Lab No. **080800**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	0.646	µg/l	0.1	0.333	1		09/10/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/10/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/10/01	GLS
Benzo(a)Anthracene	0.091	µg/l	0.03	0.0999	1	J	09/10/01	GLS
Benzo(a)Pyrene	0.183	µg/l	0.02	0.0666	1		09/10/01	GLS
Benzo(b)Fluoranthene	0.116	µg/l	0.02	0.0666	1		09/10/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/10/01	GLS
Benzo(ghi)Perylene	0.162	µg/l	0.09	0.3	1	J	09/10/01	GLS
Chrysene	0.093	µg/l	0.02	0.0666	1		09/10/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/10/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/10/01	GLS
Fluorene	0.568	µg/l	0.11	0.366	1		09/10/01	GLS
Indeno(1,2,3-cd)Pyrene	0.359	µg/l	0.06	0.2	1		09/10/01	GLS
1-Methyl Naphthalene	3.56	µg/l	0.13	0.433	1		09/10/01	GLS
2-Methyl Naphthalene	4.57	µg/l	0.12	0.4	1		09/10/01	GLS
Naphthalene	2.61	µg/l	0.06	0.2	1		09/10/01	GLS
Phenanthrene	0.582	µg/l	0.11	0.366	1		09/10/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/10/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.4
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **MW-2** Matrix: **GRDWTR** Sample Date/Time: **09/07/01 12:25** Lab No. **080801**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/10/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/10/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/10/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/10/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/10/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/10/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/10/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/10/01	GLS
Chrysene	0.025	µg/l	0.02	0.0666	1	J	09/10/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/10/01	GLS
Fluoranthene	0.089	µg/l	0.03	0.0999	1	J	09/10/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/10/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/10/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1		09/10/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1		09/10/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1		09/10/01	GLS
Phenanthrene	0.107	µg/l	0.11	0.366	1	J	09/10/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/10/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.5
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **MW-3** Matrix: **GRDWTR** Sample Date/Time: **09/07/01 13:05** Lab No. **080802**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	0.337	µg/l	0.13	0.433	1	J	09/11/01	GLS
2-Methyl Naphthalene	0.34	µg/l	0.12	0.4	1	J	09/11/01	GLS
Naphthalene	0.564	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.6
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **DUPLICATE** Matrix: **GRDWTR** Sample Date/Time: **09/07/01** Lab No. **080803**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	1.26	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	0.16	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	0.9	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	7.69	µg/l	0.13	0.433	1		09/11/01	GLS
2-Methyl Naphthalene	9.50	µg/l	0.12	0.4	1		09/11/01	GLS
Naphthalene	5.83	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	0.847	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	0.221	µg/l	0.1	0.333	1	J	09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.7
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **EQUIP BLANK** Matrix: **GRDWTR** Sample Date/Time: **09/07/01** Lab No. **080804**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1		09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1		09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.8
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **TRIP BLANK-USF** Matrix: **WATER** Sample Date/Time: **09/07/01** Lab No. **080805**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1		09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1		09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

Qualifier Descriptions

J	Estimated concentration below laboratory quantitation level.

Bureau for Remediation and Redevelopment
Activity Detail Report - Case Tracking

53295-0002-00 13

Activity Number: 02-41-280594 **VPLE:** ☐ **Gen Prop:** ☐
Activity Type: ERP **AST:** ☐ **DryCleaner Activity:** ☐
Activity Name: V A MEDICAL CNT BDG #43
Region: Southeast Region **County:** Milwaukee **FID:** 341041470
Location Name: V A MEDICAL CENTER **EPA ID:**
Location Address: 5000 W NATIONAL AVE **Start Date:** 09/14/2001 **End Date:** ~~OPEN~~ 01/30/02
Municipality: MILWAUKEE **Project Manager:**
Legal Description: NE 1/4 of SW 1/4 of Section 35, Township 7N Range 21E **Priority:** N/A
Latitude: None Found **Score:**
Longitude: None Found **LUST Trust Eligible:** N/A
Co-Contamination: ☐ **Transferred DCom:** ☑ **Pecfa Eligible:** ☐
Tracked by DCom: ☐ **Pecfa 80k:** ☐
Pecfa 80k Failure: ☐

RECEIVED
NOV 14 2001
ERS DIVISION

Who:

Contact Type: RP CONTACT/AGENT **Phone:** (414) 384-2000 **Ext:** 41090
Name: OLA KOWALSKY **Fax:**
Title: RP CONTACT **E-Mail:**
Company:
Address: 5000 W NATIONAL AVE
MILWAUKEE, WI 53295

Contact Type: RESPONSIBLE PARTY **Phone:** ( ) - **Ext:**
Name: **Fax:**
Title: **E-Mail:**
Company: V A MEDICAL CENTER
Address: 5000 W NATIONAL AVE
MILWAUKEE, WI 53295-100

Impacts:
Groundwater Contamination
Soil Contamination

Risk:
Unknown Risk Assigned: 09/19/2001

Substances:
Diesel
PAHs

Diesel
Treatment Flag ☐ Disposal Flag ☐ Landfill Flag ☐
Disposal City:
Disposal Amt:

PAHs
Treatment Flag ☐ Disposal Flag ☐ Landfill Flag ☐
Disposal City:
Disposal Amt:

Actions:
1 Notification 09/14/2001

Actions:

2	RP Letter Sent	09/20/2001
179	Closure Review Req Received (w/out Fee)	10/29/2001
76	Activity Transferred to DCOM	11/13/2001

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Regional Headquarters
2300 N. Dr. ML King Drive, PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8483
TTY 414-263-8713

November 13, 2001

V A Medical Center
Ola Kowalsky
5000 W. National Ave.
Milwaukee, WI 53295-100

BRRTS # 02-41-280594
FID #341041470

Subject: Transfer of Site File, V A Medical Cnt Bldg #43, 5000 W. National Ave., Milwaukee

Dear Ms. Kowalsky:

The recently enacted Biennial Budget contained language, which modifies the way the State classifies sites impacted by petroleum contamination. In addition, under this same language, oversight for sites falling under the definition of "low or medium risk" would become the responsibility of the Department of Commerce (Commerce) rather than our agency. Your site appears to fall under this new definition of "low/medium risk" and as such, further reviews of submittals and technical assistance will be provided by staff at Commerce.

At the request of your environmental consultant, we are transferring your site, along with all file documents for your site, to the Department of Commerce. If you have questions or concerns regarding your site, or would like to review any of the pertinent file documents, you should direct them to Commerce staff at the following address:

Gregory Michael	(414) 220-5375	Environmental & Regulatory Services
Linda Michalets	(414) 220-5376	101 West Pleasant Street – Suite 100A
Jennifer Skinner	(414) 220-5373	Milwaukee, WI 53212

Thank you for your understanding as we implement the language contained within the recent Biennial Budget.

Sincerely,

Victoria Stovall,
Program Assistant
Department of Natural Resources
Remediation & Redevelopment
414-263-8688

c: Sigma Env. Service, Inc. – James M. Westerman
Site File

ENVIRONMENTAL & REGULATORY SERVICES
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Scott McCallum, Governor
Philip Edw. Albert, Secretary

Wisconsin
Department of Commerce

January 30, 2002

Ola Kowalsky
V A Medical Center
5000 W. National Ave.
Milwaukee, WI 53295

RE: **Final Closure**

Commerce # 53295-0002-00B WDNR BRRTS # 02-41-280594
V A Hospital, (Bldg. 43), 5000 W. National Ave., Milwaukee

Dear Mr. Kowalsky:

The Wisconsin Department of Commerce (Commerce) PECFA Site Review Section has received all the items required as conditions for closure of the above-referenced site. Therefore, this site is now listed as "closed" on the Commerce database.

Please be advised, in reference to PECFA reimbursement (if applicable), that no further action was indicated in the conditional closure letter dated January 16, 2002. As per the 2001 Budget Bill language, if the site achieved a "no further remedial action" status before August 31, 2001 and the final PECFA claim is submitted more than 120 days after August 31, 2001, interest costs incurred after January 2, 2002 are ineligible.

It is in your best interest to keep all documentation related to the investigation and remediation of your site. This information may be needed for future property transactions.

If future site conditions indicate that any remaining contamination poses a threat, and subsequent information indicates a need to reopen this case, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility. If contamination is encountered, appropriate measures must be implemented to assure any residual contamination is managed following all applicable State of Wisconsin regulations and standards.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5375.

Sincerely,

Greg Michael
Hydrogeologist
Site Review Section

cc: Sigma Environmental Services, Inc.
Case File

SIGMA
ENVIRONMENTAL SERVICES INC.

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

January 23, 2002

Project Reference #6953

Mr. Greg Michael
Wisconsin Department of Commerce
Bureau of PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, WI 53212-3963

Re: **Conditional Case Closure**
Commerce #53295-0002-00B WDNR BRRTS #02-41-280594
V.A. Hospital (Bldg. #43), 5000 W. National Ave., Milwaukee, WI

Dear Mr. Michael:

This letter has been issued as a clarification to the January 16, 2002 conditional case closure letter issued by the Wisconsin Department of Commerce (COMM) for the above referenced project. Per our January 21, 2002 telephone conversation, the groundwater monitoring wells utilized in association with obtaining case closure status for the above reference project and required by COMM to be abandoned as part of the conditional closure requirements are part of an active underground storage tank leak detection system.

In light of this information, it is requested that final case closure status be granted at this time for the above referenced site without the abandonment of these wells. In the future, should the underground storage tank and/or leak detection system no longer be necessary, steps will be taken by the responsible party to properly close the wells.

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

Respectfully submitted,

SIGMA ENVIRONMENTAL SERVICES, INC.

James M. Westerman, CHMM
Project Manager/Hydrogeologist

cc: Mr. Dean Timlitz – V.A. Medical Center
Mr. Ola Kowalsky – V.A. Medical Center

i:clidata\vamedical\6953\comm1ltr

ENVIRONMENTAL & REGULATORY SERVICES
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
http://www.commerce.state.wi.us
http://www.wisconsin.gov
Scott McCallum, Governor
Philip Edw. Albert, Secretary

Wisconsin
Department of Commerce

January 16, 2002

Ola Kowalsky
V. A. Medical Center
5000 W. National Ave.
Milwaukee, WI 53295

RE: **Conditional Case Closure**

Commerce # 53295-0002-00B WDNR BRRTS # 02-41-280594
V. A. Hospital (Bldg. #43), 5000 W. National Ave., Milwaukee

2000-gallon fuel oil underground storage tank overfill

Dear Ms. Kowalsky:

On November 14, 2001, the Wisconsin Department of Commerce (Commerce) PECFA Site Review Section received a request for case closure from Sigma Environmental Services, Inc. Using the standards established in the NR 700 series, Wisconsin Administrative Code (Wis. Adm. Code), Commerce has determined that this site does not pose a significant threat to the environment and human health. No further investigation or remedial action is necessary.

The following condition must be satisfied to obtain final closure:

- All three monitoring wells must be properly abandoned and the appropriate documentation must be forwarded to the letterhead address.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5375.

Sincerely,

Greg Michael
Hydrogeologist
Site Review Section

cc: Sigma Environmental Services, Inc.
Case File

SIGMA
ENVIRONMENTAL SERVICES INC.

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

October 29, 2001

Project Reference #6953
BRRTS #02-41-280594
FID #341041470

Attn: Program Assistant
Wisconsin Department of Natural Resources
Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
PO box 12436
Milwaukee, Wisconsin 53212-0436

Re: **Request for File Transfer to COMM**
VA Medical Center - Building #43
5000 West National Avenue
Milwaukee, WI

Dear Sir or Madam:

Based on a review of site environmental data presented in the attached document, the above reference site does not meet the criteria and definition for a high risk site as presented in s. NR 746 Wis. Adm. Code and should be classified as a medium or low risk site. Therefore, in accordance with s. NR 746.11 Wis. Adm. Code, it is requested that the file be transferred to the Wisconsin Department of Commerce.

If you have any questions, please contact our office at (414) 768-7144.

Respectfully submitted,

SIGMA ENVIRONMENTAL SERVICES, INC.

James M. Westerman, CHMM
Project Manager/Hydrogeologist

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Letter Of Transmittal

Type of Submittal:
X LUST ___ ERP ___ VPLE ___ other (describe)

To: Program Assistant/BRR Program
Wisconsin Department of Natural Resources Box12436
2300 N. Dr. Martin Luther King Jr. Dr.

From: Name James M. Westerman
Company Sigma Environmental Services, Inc.
Address 220 East Ryan Road
Oak Creek, WI 53154
Phone 414-768-7144
Date

FOR: Site Name VA Medical Center - Bldg #43
Address 5000 National Avenue
Milwaukee, WI 53295

FID# 341041470
BRRTS# 02-41-280594

Check type(s) of documents enclosed. Submittals are tracked & filed based on information you provide. Include FID & BRRTS numbers assisgned to this site. Identify the intent of documents(s) you are submitting in order to speed processing. Please attach required fees to this form.

Are you requesting Department Review? **Y☐ NX**

√	TYPE OF DOCUMENT/REPORT	FEE	DNR CODE (office use only)
	Notification of Release	none	01
	Tank Closure/Site Assessment *where release(s) have been detected**	none	33
	Site Investigation Workplan	$500 if review is requested	35,135~
	Site Investigation __groundwater impacts above ES __no groundwater impacts or gw impacts below ES (*if petroleum constituents only, case will be transferred to Department of Commerce)*	$750 if review is requested	37, 137~, 76, 96
	Request to Transfer Case to Department of Commerce	none	76
	Off-Site Determination Request	$500 mandatory	638~
	Remedial Action Options Plan	$750 if review is requested	39,143~
	NR 720.19 Site Specific Clean-Up Goal Proposal	$750 if review is requested	67,68~
	NR 718 Landspreading Request	$500 mandatory	61~
	"Notification to Treat or Dispose" of Contaminated Soil/Water	none	99
	Injection/Infiltration Request	$500 mandatory	63~
	Quarterly Report or Update	$500 if review is requested	43, 43~
	O&M Form 4400-194	$300 if review is requested	92, 192~
	Remedial Action Options Report	$750 if review is requested	41, 41~
	Closure Review Request	$750 mandatory	79~
	NR700.11 Simple Site Closure Request	$250 mandatory	183~
	"Draft Deed Affidavit" or "Restriction required for close-out"	none	99
	"Well Abandonment Forms"	none	99
	Remedial Design Report	$750 if review is requested	147, 148~
	Construction Documentation Reports	$250 if review is requested	151, 152~
	Long Term Monitoring Plan	$300 if review is requested	24, 25~
	Voluntary Party Liability Exemption (VPLE) Application	$250 mandatory	662
	VPLE "Phase I/II Assessments" or "Additional Reports"	computed hourly	99
	Tax Cancellation Agreement	$500 mandatory	654
	Negotiated Agreement	$1000 mandatory	630
	Lender Assessment	$500 mandatory	686
	Negotiation and Cost Recovery (municipalities only)	fee for each service, mandatory	90~
	General Liability Clarification Request	$500 mandatory	684
	Lease Letter Request - Single Property	$500 mandatory	646
	Lease Letter Request - Multiple Properties	$1000 mandatory	646
	Request for Other Technical Assistance	$500 mandatory	90~
X	Other (please describe) **FILE TRANSFER REQUEST.**		

*Closure reports for sites where no releases have been detected should be sent directly to "Clean Closures" c/o DNR Remediation a& Redevelopment Program, P.O. Box 7921, Madison WI 53707

Remarks:

Lab Reports
BRRH# 02-41-280601

State of Wisconsin
Department of Natural Resources

RECEIVED
SEP 26 2001
By JS

FID#341041470

Hazardous Substance Release Fax Notification
(Non-Emergency Only)

A
DC

Emergency situations should be reported via the 24-hour Spill Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to the "Spills Law", s. 292.11, Wis. Stats. Section NR 706.05(1)(b), Wis. Adm. Code requires that hazardous substance discharges are to be reported by one of three methods: telephoning the Department (toll free Spill Hotline number above), telefaxing a report to the Department or visiting a Department office in person. If you choose to notify the Department by telefax, you should use this form to be sure that all necessary information is included. However use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating ch. 292, Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, if available, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. TYPE or PRINT LEGIBLY. FAX it to the appropriate WDNR region (see next page) IMMEDIATELY upon discovery of a potential release to the environment from (check one):

- ☐ Underground Petroleum Storage Tank System
- ☐ Aboveground Petroleum Storage Tank System
- ☐ Dry Cleaner Facility (DERP eligibility based on: ☐ Facility owner/operator ☐ Property owner of licensed facility
- ☐ Other - Describe:

TO:WDNR, Attn:	(Area Code) FAX Number
Program Assitant	414 263-8483

1. Discharge reported by:

Name	Firm	Date FAXed to WDNR
Jim Westerman	Sigma Environmental	9/14/01

Mailing Address	(Area Code) Telephone Number
220 E. Ryan Road	414 768-7144

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence / vacant property

V. A. Medical Center Building #112

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60

5000 W. National Avenue

Municipality (City, Village, Township) Specify municipality in which the site is located, not mailing address/city

Milwaukee

County:	Legal Description:
Milwaukee	NE 1/4, SW 1/4, Section 35, Tn 7, Range 21 (E) W (circle one)

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary

V. A. Medical Center

Contact Person Name (if different)	Telephone Number
Ola Kowalsky	384-2000 Ext. 41090

Mailing Address	City	State	ZIP Code
5000 W. National Ave.	Milwaukee	WI	53295

4. Hazardous Substance Impact Information

Identify and estimate the quantity of the hazardous substance discharged (check all that apply):

State of Wisconsin
Department of Natural Resources

Hazardous Substance Release Fax Notification
(Non-Emergency Only)

☐ Unleaded gasoline _____ gallons		☐ Fuel oil	_____ gallons
☐ Leaded gasoline _____ gallons		☐ Waste oil	_____ gallons
☐ Diesel _____ gallons		☐ Stoddard solvent	_____ gallons
☐ Perchloroethlyene _____ gallons		☒ Other: (Specify below)	

Chlorinated Compounds (See Attached)

Impacts to the environment (enter "K" for known/confirmed or "P" for potential for all that apply)

___ Fire/explosion threat	___ Soil contamination
___ Contaminated private wells (# of wells)_____	___ Surface water impacts
___ Contaminated public wells	___ Floating product
K Groundwater contamination	___ Other (Describe below)

Contamination was discovered as a result of:

☐ Tank closure assessment ☒ Site assessment
☐ Other – Describe below

On what date?

9/7/01

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Implementing SZ to evaluate extent & potential source.

FAX numbers to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (920-492-5859); Attention - RR Program Assistant:
Brown, Calumet, Door, Fond du Lac ***(except City of Waupun - see South Central Region)***, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Waupaca, Waushara, Winnebago Counties

Northern Region (715-365-8932); Attention - RR Program Assistant:
Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn Counties

South Central Region (608-275-3338); Attention - RR Program Assistant:
Columbia, Crawford, Dane, Dodge, Fond du Lac ***(City of Waupun only)***, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk Counties

Southeast Region (414-263-8483); Attention - RR Program Assistant:
Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, Waukesha Counties

West Central Region (715-839-6076); Attention – RR Program Assistant:
Adams, Buffalo, Chippewa, Clark, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood Counties

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3721

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

PROJECT NO.: 6849
REPORT NO. : 080806.3
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: MW-1 Matrix: GRDWTR Sample Date/Time: 09/07/01 09:35 Lab No. 080806

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.16	µg/l	0.16	0.533	1		09/10/01	LMP
Bromobenzene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
Bromodichloromethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
n-Butylbenzene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
sec-Butylbenzene	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
tert-Butylbenzene	<0.18	µg/l	0.18	0.599	1		09/10/01	LMP
Carbon Tetrachloride	0.471	µg/l	0.3	0.999	1	J	09/10/01	LMP
Chlorobenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Dibromochloromethane	<0.22	µg/l	0.22	0.733	1		09/10/01	LMP
Chloroethane	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
Chloroform	49.6	µg/l	0.24	0.799	5		09/12/01	LMP
Chloromethane	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
2-Chlorotoluene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
4-Chlorotoluene	<0.27	µg/l	0.27	0.899	1		09/10/01	LMP
Dibromochloropropane(DBCP)	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
1,2-Dibromoethane(EDB)	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
1,2-Dichlorobenzene	<0.36	µg/l	0.36	1.2	1		09/10/01	LMP
1,3-Dichlorobenzene	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
1,4-Dichlorobenzene	<0.27	µg/l	0.27	0.899	1		09/10/01	LMP
Dichlorodifluoromethane	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
1,1-Dichloroethane	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
1,2-Dichloroethane	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
1,1-Dichloroeth(yl)ene	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
cis-1,2-Dichloroeth(yl)ene	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
trans-1,2-Dichloroethylene	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
1,2-Dichloropropane	<0.35	µg/l	0.35	1.17	1		09/10/01	LMP
1,3-Dichloropropane	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
2,2-Dichloropropane	<0.29	µg/l	0.29	0.966	1		09/10/01	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/10/01	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/10/01	LMP
Isopropylbenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Isopropyl Ether	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
p-Isopropyltoluene	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/10/01	LMP
Methylene Chloride	0.77	µg/l	0.3	0.999	1	J	09/10/01	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/10/01	LMP
n-Propylbenzene	<0.16	µg/l	0.16	0.533	1		09/10/01	LMP
Tetrachloroeth(yl)ene	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
1,1,2,2-Tetrachloroethane	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
Toluene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
1,2,3-Trichlorobenzene	<0.4	µg/l	0.4	1.33	1	CSH	09/10/01	LMP
1,2,4-Trichlorobenzene	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
1,1,1-Trichloroethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
1,1,2-Trichloroethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
Trichloroeth(yl)ene	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
Trichlorofluoromethane	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
1,3,5-Trimethylbenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Vinyl Chloride	<0.39	µg/l	0.39	1.3	1		09/10/01	LMP
m- & p-Xylene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
o-Xylene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.4
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: MW-1 Matrix: GRDWTR Sample Date/Time: 09/07/01 09:35 Lab No. 080806

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	0.039	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	0.094	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1		09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1		09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.5
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: MW-2 Matrix: GRDWTR Sample Date/Time: 09/07/01 10:15 Lab No. 080807

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<1.60	µg/l	0.16	0.533	10		09/10/01	LMP
Bromobenzene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
Bromodichloromethane	140.	µg/l	0.2	0.666	10		09/10/01	LMP
n-Butylbenzene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
sec-Butylbenzene	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
tert-Butylbenzene	<1.80	µg/l	0.18	0.599	10		09/10/01	LMP
Carbon Tetrachloride	91.4	µg/l	0.3	0.999	10		09/10/01	LMP
Chlorobenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Dibromochloromethane	20.5	µg/l	0.22	0.733	10		09/10/01	LMP
Chloroethane	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
Chloroform	4,300.	µg/l	0.24	0.799	1000		09/11/01	LMP
Chloromethane	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
2-Chlorotoluene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
4-Chlorotoluene	<2.70	µg/l	0.27	0.899	10		09/10/01	LMP
Dibromochloropropane(DBCP)	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
1,2-Dibromoethane(EDB)	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
1,2-Dichlorobenzene	<3.60	µg/l	0.36	1.2	10		09/10/01	LMP
1,3-Dichlorobenzene	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
1,4-Dichlorobenzene	<2.70	µg/l	0.27	0.899	10		09/10/01	LMP
Dichlorodifluoromethane	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
1,1-Dichloroethane	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
1,2-Dichloroethane	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
1,1-Dichloroeth(yl)ene	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
cis-1,2-Dichloroeth(yl)ene	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
trans-1,2-Dichloroethylene	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
1,2-Dichloropropane	<3.50	µg/l	0.35	1.17	10		09/10/01	LMP
1,3-Dichloropropane	<2.60	µg/l	0.26	0.866	10		09/10/01	LMP
2,2-Dichloropropane	<2.90	µg/l	0.29	0.966	10		09/10/01	LMP
Ethylbenzene	23.0	µg/l	0.5	1.67	10		09/10/01	LMP
Hexachlorobutadiene	<10.0	µg/l	1.0	3.33	10		09/10/01	LMP
Isopropylbenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Isopropyl Ether	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
p-Isopropyltoluene	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
Methyl t-Butyl Ether(MTBE)	<3.00	µg/l	0.3	0.999	10		09/10/01	LMP
Methylene Chloride	6.73	µg/l	0.3	0.999	10		09/10/01	LMP
Naphthalene	<8.00	µg/l	0.8	2.66	10	CSH	09/10/01	LMP
n-Propylbenzene	<1.60	µg/l	0.16	0.533	10		09/10/01	LMP
Tetrachloroeth(yl)ene	25.7	µg/l	0.26	0.866	10		09/10/01	LMP
1,1,2,2-Tetrachloroethane	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
Toluene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
1,2,3-Trichlorobenzene	<4.00	µg/l	0.4	1.33	10	CSH	09/10/01	LMP
1,2,4-Trichlorobenzene	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
1,1,1-Trichloroethane	<2.00	µg/l	0.2	0.666	10		09/10/01	LMP
1,1,2-Trichloroethane	<2.00	µg/l	0.2	0.666	10		09/10/01	LMP
Trichloroeth(yl)ene	14.5	µg/l	0.26	0.866	10		09/10/01	LMP
Trichlorofluoromethane	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
1,2,4-Trimethylbenzene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
1,3,5-Trimethylbenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Vinyl Chloride	<3.90	µg/l	0.39	1.3	10		09/10/01	LMP
m- & p-Xylene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
o-Xylene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

a VIVENDI water company

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.6
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: MW-2 Matrix: GRDWTR Sample Date/Time: 09/07/01 10:15 Lab No. 080807

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1	SL	09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1	SL	09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1	SL	09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1	SL	09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1	SL	09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1	SL	09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1	SL	09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1	SL	09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1	SL	09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.7
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: DUPLICATE Matrix: GRDWTR Sample Date/Time: 09/07/01 Lab No. 080808

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<1.60	µg/l	0.16	0.533	10		09/10/01	LMP
Bromobenzene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
Bromodichloromethane	134.	µg/l	0.2	0.666	10		09/10/01	LMP
n-Butylbenzene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
sec-Butylbenzene	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
tert-Butylbenzene	<1.80	µg/l	0.18	0.599	10		09/10/01	LMP
Carbon Tetrachloride	93.9	µg/l	0.3	0.999	10		09/10/01	LMP
Chlorobenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Dibromochloromethane	20.8	µg/l	0.22	0.733	10		09/10/01	LMP
Chloroethane	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
Chloroform	4,260.	µg/l	0.24	0.799	1000		09/12/01	LMP
Chloromethane	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
2-Chlorotoluene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
4-Chlorotoluene	<2.70	µg/l	0.27	0.899	10		09/10/01	LMP
Dibromochloropropane(DBCP)	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
1,2-Dibromoethane(EDB)	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
1,2-Dichlorobenzene	<3.60	µg/l	0.36	1.2	10		09/10/01	LMP
1,3-Dichlorobenzene	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
1,4-Dichlorobenzene	<2.70	µg/l	0.27	0.899	10		09/10/01	LMP
Dichlorodifluoromethane	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
1,1-Dichloroethane	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
1,2-Dichloroethane	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
1,1-Dichloroeth(yl)ene	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
cis-1,2-Dichloroeth(yl)ene	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
trans-1,2-Dichloroethylene	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
1,2-Dichloropropane	<3.50	µg/l	0.35	1.17	10		09/10/01	LMP
1,3-Dichloropropane	<2.60	µg/l	0.26	0.866	10		09/10/01	LMP
2,2-Dichloropropane	<2.90	µg/l	0.29	0.966	10		09/10/01	LMP
Ethylbenzene	18.8	µg/l	0.5	1.67	10		09/10/01	LMP
Hexachlorobutadiene	<10.0	µg/l	1.0	3.33	10		09/10/01	LMP
Isopropylbenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Isopropyl Ether	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
p-Isopropyltoluene	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
Methyl t-Butyl Ether(MTBE)	<3.00	µg/l	0.3	0.999	10		09/10/01	LMP
Methylene Chloride	6.37	µg/l	0.3	0.999	10		09/10/01	LMP
Naphthalene	<8.00	µg/l	0.8	2.66	10	CSH	09/10/01	LMP
n-Propylbenzene	<1.60	µg/l	0.16	0.533	10		09/10/01	LMP
Tetrachloroeth(yl)ene	27.8	µg/l	0.26	0.866	10		09/10/01	LMP
1,1,2,2-Tetrachloroethane	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
Toluene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
1,2,3-Trichlorobenzene	<4.00	µg/l	0.4	1.33	10	CSH	09/10/01	LMP
1,2,4-Trichlorobenzene	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
1,1,1-Trichloroethane	<2.00	µg/l	0.2	0.666	10		09/10/01	LMP
1,1,2-Trichloroethane	<2.00	µg/l	0.2	0.666	10		09/10/01	LMP
Trichloroeth(yl)ene	15.6	µg/l	0.26	0.866	10		09/10/01	LMP
Trichlorofluoromethane	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
1,2,4-Trimethylbenzene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
1,3,5-Trimethylbenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Vinyl Chloride	<3.90	µg/l	0.39	1.3	10		09/10/01	LMP
m- & p-Xylene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
o-Xylene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

a VIVENDI water company

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.8
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: **DUPLICATE** Matrix: **GRDWTR** Sample Date/Time: **09/07/01** Lab No. **080808**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1	SL	09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1	SL	09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1	SL	09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1	SL	09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1	SL	09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1	SL	09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1	SL	09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1	SL	09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1	SL	09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

VIVENDI water company

[redacted]

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.9
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: TRIP BLANK-USF Matrix: WATER Sample Date/Time: 09/07/01 Lab No. 080809

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.16	µg/l	0.16	0.533	1		09/10/01	LMP
Bromobenzene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
Bromodichloromethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
n-Butylbenzene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
sec-Butylbenzene	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
tert-Butylbenzene	<0.18	µg/l	0.18	0.599	1		09/10/01	LMP
Carbon Tetrachloride	<0.3	µg/l	0.3	0.999	1		09/10/01	LMP
Chlorobenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Dibromochloromethane	<0.22	µg/l	0.22	0.733	1		09/10/01	LMP
Chloroethane	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
Chloroform	<0.24	µg/l	0.24	0.799	1		09/11/01	LMP
Chloromethane	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
2-Chlorotoluene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
4-Chlorotoluene	<0.27	µg/l	0.27	0.899	1		09/10/01	LMP
Dibromochloropropane(DBCP)	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
1,2-Dibromoethane(EDB)	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
1,2-Dichlorobenzene	<0.36	µg/l	0.36	1.2	1		09/10/01	LMP
1,3-Dichlorobenzene	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
1,4-Dichlorobenzene	<0.27	µg/l	0.27	0.899	1		09/10/01	LMP
Dichlorodifluoromethane	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
1,1-Dichloroethane	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
1,2-Dichloroethane	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
1,1-Dichloroeth(yl)ene	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
cis-1,2-Dichloroeth(yl)ene	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
trans-1,2-Dichloroethylene	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
1,2-Dichloropropane	<0.35	µg/l	0.35	1.17	1		09/10/01	LMP
1,3-Dichloropropane	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
2,2-Dichloropropane	<0.29	µg/l	0.29	0.966	1		09/10/01	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/10/01	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/10/01	LMP
Isopropylbenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Isopropyl Ether	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
p-Isopropyltoluene	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/10/01	LMP
Methylene Chloride	<0.3	µg/l	0.3	0.999	1		09/10/01	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/10/01	LMP
n-Propylbenzene	<0.16	µg/l	0.16	0.533	1		09/10/01	LMP
Tetrachloroeth(yl)ene	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
1,1,2,2-Tetrachloroethane	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
Toluene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
1,2,3-Trichlorobenzene	<0.4	µg/l	0.4	1.33	1	CSH	09/10/01	LMP
1,2,4-Trichlorobenzene	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
1,1,1-Trichloroethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
1,1,2-Trichloroethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
Trichloroeth(yl)ene	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
Trichlorofluoromethane	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
1,3,5-Trimethylbenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Vinyl Chloride	<0.39	µg/l	0.39	1.3	1		09/10/01	LMP
m- & p-Xylene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
o-Xylene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.10
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Qualifier Descriptions

J	Estimated concentration below laboratory quantitation level.
CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
SL	Surrogate recovery was low. Result for sample may be biased low.

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: Jim Westerman
Company: Sigma Environmental
Address: 220 E. Ryan Rd.
Oak Creek, WI
Phone: (414) 768-7144
P. O. #
Project # 6849 Quote # 7168-4
Location Milwaukee, WI

BILL TO: (if different from Report To info)
Name:
Company: Same
Address:
Phone: ( )

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [ ] Normal
- [x] Rush (Pre-approved by Lab)

Date Needed 9/12/01
Approved By
3 day turnaround

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	VOC	PAH	TEMPERATURE				REMARKS
15080806	9/7/01	9:35		4	MW-1	X	X					1-amber liter 3 vials
15080807	9/7/01	10:15		~~4~~ 5	MW-2	X	X					2-amber liter 3 vials
15080808	9/7/01	—		4	DUPLICATE	X	X					1-amber liter 3 vials
	~~9/7/01~~	~~—~~		~~1~~	~~QC-MW-2~~		~~X~~					
	—	—		1	TEMP. BLANK			X				
15080809	—	—		2	TRIP BLANK	X						2 vials. 8-23-01 TB026 B 1 212 01

RUSH

Del'y: Hand Comm
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A 1°C

Comments: Copy to Cindy Laurie, Betty, ... [illegible]

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature) [signature]		
RELINQUISHED BY: (Signature) [signature]	DATE/TIME 9/7/01 14:35	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature) [signature] DATE/TIME 9-7-01 [illegible]

LAb Rpts

SIGMA
ENVIRONMENTAL SERVICES INC.

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

September 24, 2001

Project Reference #6849, 6953

RECEIVED
SEP 26 2001
By VS

FID# 341041470
BRRT# 02-41-280594

Attn: Program Assistance
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther king Jr. Drive
P.O. Box 12436
Milwaukee, WI 53212-0436

Re: Release Reporting
Building #43 and Building #112
VA Medical Center
5000 West National Avenue
Milwaukee, WI

Dear Sir or Madam:

Enclosed for filing and issuance of responsible party letters and BRRTS numbers are copies of the Hazardous Substance Release Notification forms FAXed to the Wisconsin Department of Natural Resources on September 14, 2001. Please note, two separate releases for two sites associated with the VA Medical Center are being reported.

If you have any questions, please contact or office at (414) 738-7144.

Sincerely,

SIGMA ENVIRONMENTAL SERVICES, INC.

James M. Westerman

James M. Westerman, CHMM
Project Manager/Hydrogeologist

attachments

cc: Mr. Dean Timlitz - VA Medical Center

i:clidata\vamedical\6953\wdnr1ltr

State of Wisconsin
Department of Natural Resources

CANCEL

Hazardous Substance Release Fax Notification
(Non-Emergency Only)

Emergency situations should be reported via the 24-hour Spill Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to the "Spills Law", s. 292.11, Wis. Stats. Section NR 706.05(1)(b), Wis. Adm. Code requires that hazardous substance discharges are to be reported by one of three methods: telephoning the Department (toll free Spill Hotline number above), telefaxing a report to the Department or visiting a Department office in person. If you choose to notify the Department by telefax, you should use this form to be sure that all necessary information is included. However use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating ch. 292, Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, if available, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. TYPE or PRINT LEGIBLY. FAX it to the appropriate WDNR region (see next page) IMMEDIATELY upon discovery of a potential release to the environment from (check one):

- ☒ Underground Petroleum Storage Tank System
- ☐ Aboveground Petroleum Storage Tank System
- ☐ Dry Cleaner Facility (DERP eligibility based on: ☐ Facility owner/operator ☐ Property owner of licensed facility
- ☐ Other - Describe:

TO:WDNR, Attn:	(Area Code) FAX Number
Program Assistant	414 263 - 8483

1. Discharge reported by:

Name	Firm	Date FAXed to WDNR
Jim Westerman	Sigma Environmental	9/14/01
Mailing Address	**(Area Code) Telephone Number**	
220 E. Ryan Road	414 768-7144	

2. Site Information Oak Creek

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence / vacant property

V. A. Medical Center Building #43

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60

5000 W. National Ave

Municipality (City, Village, Township) Specify municipality in which the site is located, not mailing address/city

Milwaukee

County:	Legal Description:
Milwaukee	NE 1/4, SW 1/4, Section 35, Tn 7, Range 21 (E)/W (circle one)

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary

V. A. Medical Center

Contact Person Name (if different)	Telephone Number
Ola Kowalski	384-2000 Ext 41090

Mailing Address	City	State	ZIP Code
5000 W. National Avenue	Milwaukee	WI	53295

4. Hazardous Substance Impact Information

Identify and estimate the quantity of the hazardous substance discharged (check all that apply):

State of Wisconsin
Department of Natural Resources

Hazardous Substance Release Fax Notification
(Non-Emergency Only)

☐	Unleaded gasoline _____ gallons		☐	Fuel oil	_____ gallons
☐	Leaded gasoline _____ gallons		☐	Waste oil	_____ gallons
☒	Diesel	5 gallons	☐	Stoddard solvent	_____ gallons
☐	Perchloroethlyene _____ gallons		☐	Other: (Specify below)	

(See Attached)

Impacts to the environment (enter "K" for known/confirmed or "P" for potential for all that apply)

___	Fire/explosion threat	P	Soil contamination
___	Contaminated private wells (# of wells)_____	___	Surface water impacts
___	Contaminated public wells	___	Floating product
P	Groundwater contamination	___	Other (Describe below)

Contamination was discovered as a result of:

☐ Tank closure assessment ☒ Site assessment
☐ Other – Describe below

On what date? 9/7/2001

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Groundwater quality samples collected
Soil Quality samples collected
Accessable impacted soil excavated & containerized in 55-gallon drums.

FAX numbers to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (920-492-5859); Attention - RR Program Assistant:
Brown, Calumet, Door, Fond du Lac ***(except City of Waupun - see South Central Region)***, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Waupaca, Waushara, Winnebago Counties

Northern Region (715-365-8932); Attention - RR Program Assistant:
Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn Counties

South Central Region (608-275-3338); Attention - RR Program Assistant:
Columbia, Crawford, Dane, Dodge, Fond du Lac ***(City of Waupun only)***, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk Counties

Southeast Region (414-263-8483); Attention - RR Program Assistant:
Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, Waukesha Counties

West Central Region (715-839-6076); Attention – RR Program Assistant:
Adams, Buffalo, Chippewa, Clark, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood Counties

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.3
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: MW-1 Matrix: GRDWTR Sample Date/Time: 09/07/01 11:55 Lab No. 080800

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	0.646	µg/l	0.1	0.333	1		09/10/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/10/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/10/01	GLS
Benzo(a)Anthracene	0.091	µg/l	0.03	0.0999	1	J	09/10/01	GLS
Benzo(a)Pyrene	0.183	µg/l	0.02	0.0666	1		09/10/01	GLS
Benzo(b)Fluoranthene	0.116	µg/l	0.02	0.0666	1		09/10/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/10/01	GLS
Benzo(ghi)Perylene	0.162	µg/l	0.09	0.3	1	J	09/10/01	GLS
Chrysene	0.093	µg/l	0.02	0.0666	1		09/10/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/10/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/10/01	GLS
Fluorene	0.568	µg/l	0.11	0.366	1		09/10/01	GLS
Indeno(1,2,3-cd)Pyrene	0.359	µg/l	0.06	0.2	1		09/10/01	GLS
1-Methyl Naphthalene	3.56	µg/l	0.13	0.433	1		09/10/01	GLS
2-Methyl Naphthalene	4.57	µg/l	0.12	0.4	1		09/10/01	GLS
Naphthalene	2.61	µg/l	0.06	0.2	1		09/10/01	GLS
Phenanthrene	0.582	µg/l	0.11	0.366	1		09/10/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/10/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

VIVENDI water company

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.4
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: MW-2 Matrix: GRDWTR Sample Date/Time: 09/07/01 12:25 Lab No. 080801

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/10/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/10/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/10/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/10/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/10/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/10/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/10/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/10/01	GLS
Chrysene	0.025	µg/l	0.02	0.0666	1	J	09/10/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/10/01	GLS
Fluoranthene	0.089	µg/l	0.03	0.0999	1	J	09/10/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/10/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/10/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1		09/10/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1		09/10/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1		09/10/01	GLS
Phenanthrene	0.107	µg/l	0.11	0.366	1	J	09/10/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/10/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.5
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: MW-3 Matrix: GRDWTR Sample Date/Time: 09/07/01 13:05 Lab No. 080802

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	0.337	µg/l	0.13	0.433	1	J	09/11/01	GLS
2-Methyl Naphthalene	0.34	µg/l	0.12	0.4	1	J	09/11/01	GLS
Naphthalene	0.564	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.6
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **DUPLICATE** Matrix: **GRDWTR** Sample Date/Time: **09/07/01** Lab No. **080803**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	1.26	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	0.16	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	0.9	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	7.69	µg/l	0.13	0.433	1		09/11/01	GLS
2-Methyl Naphthalene	9.50	µg/l	0.12	0.4	1		09/11/01	GLS
Naphthalene	5.83	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	0.847	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	0.221	µg/l	0.1	0.333	1	J	09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

a VIVENDI water company

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6953
REPORT NO. : 080800.7
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **EQUIP BLANK** Matrix: **GRDWTR** Sample Date/Time: **09/07/01** Lab No. **080804**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1		09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1		09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6053
REPORT NO. : 080800.8
DATE REC'D : 09/08/01
REPORT DATE: 09/12/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **TRIP BLANK-USF** Matrix: **WATER** Sample Date/Time: **09/07/01** Lab No. **080805**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1		09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1		09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

Qualifier Descriptions

J Estimated concentration below laboratory quantitation level.

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: JIM WESTERMAN
Company: SIGMA ENVIRONMENTAL
Address: 220 E. RYAN RD. OAK CREEK, WI
Phone: (414) 768-7144
P. O. #
Project # 6953 Quote #
Location

BILL TO: (if different from Report To info)
Name:
Company: Same
Address:
Phone: ( )

Sample Type
(Check all that apply)
- ☒ Groundwater
- ☐ Wastewater
- ☐ Soil/Solid
- ☐ Drinking Water
- ☐ Oil
- ☐ Vapor
- ☐ Other

Turnaround Time
- ☐ Normal
- ☒ Rush (Pre-approved by Lab)

Date Needed 9/12/01
Approved By
3 day turnaround

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	PAH					REMARKS
15080800	9/7/01	11:55	~~2~~	1	MW-1	X					2-1 liter amber
15080801	9/7/01	12:25		1	MW-2	X					1-1 liter amber
15080802	9/7/01	13:05		1	MW-3	X					
15080803	9/7/01	—		1	DUPLICATE	X					
~~—~~	~~9/7/01~~	~~11:55~~		~~1~~	~~QC-MW-1~~	~~X~~					
15080804	9/7/01	—		1	EQUIPMENT BLANK	X					1-1 liter amber
15080805	9/7/01	—		1	TRIP BLANK	X					? labeled as such

RUSH

Del'v: Hand Comm
Ship. Cont. OK Y N
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A

Comments: Copy to Cindy

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)* [signature]		
RELINQUISHED BY: *(Signature)* [signature]	DATE/TIME 9/7/01 14:30	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY *(Signature)* [signature] DATE/TIME [illegible]

WISCONSIN
DEPT. OF NATURAL RESOURCES

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Scott McCallum, Governor
Darrell Bazzell , Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-263-8500
FAX 414-263-8606
TTY 414-263-8713

September 24, 2001

BRRTS# 02-41-280601
FID#: 341041470

V. A. Medical Center
Ola Kowalskyj
5000 W. National Ave.
Milwaukee, WI 53295

SUBJECT: Reported Chlorinated Compounds Contamination at V. A. Medical Center Bldg #112, 5000 W. National Ave., Milwaukee, WI

Dear Ms. Kowalskyj:

On September 14, 2001 the Wisconsin Department of Natural Resources (WDNR) was notified that groundwater contamination is present at the above-referenced site. Based on the information submitted to the WDNR, we believe you are responsible for restoring the environment at the referenced site under Section 292, Wisconsin Stats., known as the hazardous substances spills law. Utilizing information submitted to the Department, this case has been assigned an unknown ranking due to the lack of information concerning soil and groundwater contamination. Your responsibility to restore this site is as follows:

WDNR Southeast Region Prioritization and Scoring Policy

Due to the WDNR workload, it is necessary to rank all contamination cases for review priority. Lower priority cases do not have assigned project managers, however, responsible parties are required to proceed with investigation and clean-up efforts. Until a priority has been assigned to this site, you should proceed with the required response work, submitting all plans and reports, along with status reports, to this office. The WDNR will notify you if your site will receive active oversight.

Your responsibilities include investigating the extent of the contamination and then selecting and implementing the most appropriate remedial action. Enclosed is information to help you understand what you need to do to ensure your compliance with the spills law.

The purpose of this letter is threefold: 1) to describe your legal responsibilities, 2) to explain what you need to do to investigate and clean up the contamination, and 3) to provide you with information about cleanups, environmental consultants, possible financial assistance, and working cooperatively with the Department of Natural Resources.

Legal Responsibilities:
Your legal responsibilities are defined both in statute and in administrative codes. The hazardous substances spill law, Section 292.11 (3) Wisconsin Statutes, and states:

* RESPONSIBILITY. A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of the state.

Wisconsin Administrative Codes chapters NR 700 through NR 728 establish requirements for emergency and interim actions, public information, site investigations, design and operation of remedial action systems, and case closure. Chapter NR 708 includes provisions for immediate actions in response to limited contamination. Wisconsin Administrative Code chapter NR 140 establishes groundwater standards for contaminants that reach groundwater.

Steps to Take:
The longer contamination is left in the environment the farther it can spread and the more it may cost to clean up. Quick action may lessen damage to your property and neighboring properties and reduce your costs in investigating and cleaning up the contamination. To ensure that your cleanup complies with Wisconsin's laws and administrative codes, you should hire a professional environmental consultant who understands what needs to be done. These are the first four steps to take:

1. Within 30 days of receipt of this correspondence, please submit written verification (such as a letter from the consultant) that you have hired an environmental consultant. You will need to work quickly to meet this timeline.

2. Within 60 days of receipt of this correspondence, your consultant must submit a workplan and schedule for the investigation. The consultant must follow the DNR administrative codes and technical guidance documents. Please include with your workplan a copy of any previous information that has been completed (such as an underground tank removal report or a preliminary excavation report).

3. Please inform DNR of what is being done at your site. Submittal requirement timelines depend on the contaminants at the site. As described in s. NR 700.11, if the site meets criteria for a "simple site", progress reports must be submitted semi-annually, beginning 6 months from the initial notification date. If the site meets criteria for a "complex site", the site investigation report and a draft remedial options report must be submitted to DNR within 30 days of completion of both reports. Your consultant must clearly document the extent and degree of soil and groundwater contamination and submit a proposal for cleaning it up.

4. For complex sites, per s. NR 724.13(3), you or your consultant must provide a brief report at least every 90 days, starting after the remediation system begins operation. The reports should summarize the work completed since the last report. Quarterly reports need only include one or two pages of text, plus any relevant maps and tables. However, should conditions at your site warrant, we may require more frequent contacts with the Department.

Due to the number of contaminated sites and our staffing levels in DNR's Southeast Region, we will be unable to provide workplan approvals for investigations or remedial actions. To maintain your compliance with the spills law and chs. NR 700 through NR 728, do not delay the investigation and cleanup of your site by waiting for DNR response. We have provided detailed technical guidance to environmental consultants. Your consultant is expected to know our technical procedures and administrative codes and should be able to answer your questions on meeting cleanup requirements.

Your correspondence and reports regarding this site should be sent to:

Victoria Stovall, Program Assistant
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
Box 12436
Milwaukee WI 53212

Unless otherwise requested, please send only one copy of plans and reports. **To speed processing, correspondence should reference the BRRTS *and* FID numbers shown at the top of this letter.**

Information for Site Owners:
Enclosed is a list of environmental consultants and some tips on selecting one. If you are eligible for reimbursement of costs under Wisconsin's PECFA program (see last paragraph) you will need to compare at least three consultants' proposals before hiring a consultant. Consultants and laboratories working in the PECFA program are required to carry errors and omissions insurance to help protect you against unsuitable work. Also enclosed are materials on controlling costs, understanding the cleanup process, and choosing a site cleanup method. Please read this information carefully.

If you are interested in obtaining the protection of limited liability under s. 292, Stats., please call Margaret Brunette at 414-263-8577 for more information. The liability exemption under s. 292 Stats., is available to persons who meet the definition of "voluntary party" in s. 292.15 and receive DNR approval for the response actions taken at the property undergoing cleanup. The Department will determine eligibility for this program on a case-by-case basis, prior to the "voluntary party" developing a scope of work for conducting a ch. NR 716 site investigation at the property.

Financial Information:
Reimbursement from the Petroleum Environmental Cleanup Fund (PECFA) is available for the costs of cleaning up contamination from eligible petroleum storage tanks. The fund is administered by the Department of Commerce. Please contact Commerce at (608) 266-2424 for more information on eligibility and regulations for this program.

Thank you for your cooperation.

Sincerely,

Victoria Stovall
Program Assistant
Remediation and Redevelopment Program
414-263-8688

c: Sigma Envirionmental – Jim Westerman
SER File

chlorinated solvent

FID: 341041470

Bmts: 02-41-286601

State of Wisconsin
Department of Natural Resources

Hazardous Substance Release Fax Notification
(Non-Emergency Only)

Form 4400-225 (7/01) Page 1 of 2

Emergency situations should be reported via the 24-hour Spill Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to the "Spills Law", s. 292.11, Wis. Stats. Section NR 706.05(1)(b), Wis. Adm. Code requires that hazardous substance discharges are to be reported by one of three methods: telephoning the Department (toll free Spill Hotline number above), telefaxing a report to the Department or visiting a Department office in person. If you choose to notify the Department by telefax, you should use this form to be sure that all necessary information is included. However use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating ch. 292, Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).
Confirmatory laboratory data should be included with this form, if available, to assist the DNR in processing this Hazardous Substance Release Notification.
Complete this form. TYPE or PRINT LEGIBLY. FAX it to the appropriate WDNR region (see next page) IMMEDIATELY upon discovery of a potential release to the environment from (check one):

- ☐ Underground Petroleum Storage Tank System
- ☐ Aboveground Petroleum Storage Tank System
- ☐ Dry Cleaner Facility (DERP eligibility based on: ☐ Facility owner/operator ☐ Property owner of licensed facility
- ☐ Other - Describe:

TO:WDNR, Attn:	(Area Code) FAX Number
Program Assitant	414 263-8483

1. Discharge reported by:

Name	Firm	Date FAXed to WDNR
Jim Westerman	Sigma Environmental	9/14/01
Mailing Address	**(Area Code) Telephone Number**	
220 E. Ryan Road	414 768-7144	

2. Site Information

Name of site at which discharge occurred. Include local name of site/~~business~~, not ~~responsible~~ party name, unless a residence / vacant property

V. A. Medical Center Building # 112

Location: Include street address, not PO Box. If no street address, ~~describe as precisely as possible~~,
i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60

5000 W. National Avenue

Municipality (City, Village, Township) Specify municipality in which the site is located, not mailing address/city

Milwaukee

County:	Legal Description:
Milwaukee	NE 1/4, SW 1/4, Section 35, Tn 7, Range 21 (E) W (circle one)

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary

V. A. Medical Center

Contact Person Name (if different)	Telephone Number
Ola Kowalsky	384-2000 Ext. 41090

Mailing Address	City	State	ZIP Code
5000 W. National Ave.	Milwaukee	WI	53295

4. Hazardous Substance Impact Information

Identify and estimate the quantity of the hazardous substance discharged (check all that apply):

State of Wisconsin
Department of Natural Resources

Hazardous Substance Release Fax Notification
(Non-Emergency Only)
Form 4400-225 (7/01) Page 2 of 2

☐	Unleaded gasoline _____ gallons		☐	Fuel oil	_____ gallons
☐	Leaded gasoline _____ gallons		☐	Waste oil	_____ gallons
☐	Diesel _____ gallons		☐	Stoddard solvent	_____ gallons
☐	Perchloroethlyene _____ gallons		☒	Other: (Specify below)	

Chlorinated Compounds (See Attached)

Impacts to the environment (enter "K" for known/confirmed or "P" for potential for all that apply)

___	Fire/explosion threat	___	Soil contamination
___	Contaminated private wells (# of wells)_____	___	Surface water impacts
___	Contaminated public wells	___	Floating product
K	Groundwater contamination	___	Other (Describe below)

Contamination was discovered as a result of:

☐	Tank closure assessment	☒	Site assessment
☐	Other – Describe below		

On what date? 9/7/01

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Implementing SZ to evaluate extent & potential source.

FAX numbers to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (920-492-5859); Attention - RR Program Assistant:
Brown, Calumet, Door, Fond du Lac ***(except City of Waupun - see South Central Region)***, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Waupaca, Waushara, Winnebago Counties

Northern Region (715-365-8932); Attention - RR Program Assistant:
Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn Counties

South Central Region (608-275-3338); Attention - RR Program Assistant:
Columbia, Crawford, Dane, Dodge, Fond du Lac ***(City of Waupun only)***, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk Counties

Southeast Region (414-263-8483); Attention - RR Program Assistant:
Kenosha, Milwaukee, Ozaukee, Racine, Sheboygan, Walworth, Washington, Waukesha Counties

West Central Region (715-839-6076); Attention – RR Program Assistant:
Adams, Buffalo, Chippewa, Clark, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood Counties

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-336-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.3
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: MW-1 Matrix: GRDWTR Sample Date/Time: 09/07/01 09:35 Lab No. 080806

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.16	µg/l	0.16	0.533	1		09/10/01	LMP
Bromobenzene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
Bromodichloromethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
n-Butylbenzene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
sec-Butylbenzene	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
tert-Butylbenzene	<0.18	µg/l	0.18	0.599	1		09/10/01	LMP
Carbon Tetrachloride	0.471	µg/l	0.3	0.999	1	J	09/10/01	LMP
Chlorobenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Dibromochloromethane	<0.22	µg/l	0.22	0.733	1		09/10/01	LMP
Chloroethane	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
Chloroform	49.6	µg/l	0.24	0.799	5		09/12/01	LMP
Chloromethane	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
2-Chlorotoluene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
4-Chlorotoluene	<0.27	µg/l	0.27	0.899	1		09/10/01	LMP
Dibromochloropropane(DBCP)	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
1,2-Dibromoethane(EDB)	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
1,2-Dichlorobenzene	<0.36	µg/l	0.36	1.2	1		09/10/01	LMP
1,3-Dichlorobenzene	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
1,4-Dichlorobenzene	<0.27	µg/l	0.27	0.899	1		09/10/01	LMP
Dichlorodifluoromethane	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
1,1-Dichloroethane	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
1,2-Dichloroethane	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
1,1-Dichloroeth(yl)ene	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
cis-1,2-Dichloroeth(yl)ene	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
trans-1,2-Dichloroethylene	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
1,2-Dichloropropane	<0.35	µg/l	0.35	1.17	1		09/10/01	LMP
1,3-Dichloropropane	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
2,2-Dichloropropane	<0.29	µg/l	0.29	0.966	1		09/10/01	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/10/01	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/10/01	LMP
Isopropylbenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Isopropyl Ether	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
p-Isopropyltoluene	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/10/01	LMP
Methylene Chloride	0.77	µg/l	0.3	0.999	1	J	09/10/01	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/10/01	LMP
n-Propylbenzene	<0.16	µg/l	0.16	0.533	1		09/10/01	LMP
Tetrachloroeth(yl)ene	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
1,1,2,2-Tetrachloroethane	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
Toluene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
1,2,3-Trichlorobenzene	<0.4	µg/l	0.4	1.33	1	CSH	09/10/01	LMP
1,2,4-Trichlorobenzene	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
1,1,1-Trichloroethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
1,1,2-Trichloroethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
Trichloroeth(yl)ene	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
Trichlorofluoromethane	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
1,3,5-Trimethylbenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Vinyl Chloride	<0.39	µg/l	0.39	1.3	1		09/10/01	LMP
m- & p-Xylene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
o-Xylene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.4
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: MW-1 Matrix: GRDWTR Sample Date/Time: 09/07/01 09:35 Lab No. 080806

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1		09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(b)Fluoranthene PAL	0.039	µg/l	0.02	0.0666	1		09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1		09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1		09/11/01	GLS
Chrysene PAL	0.02	µg/l	0.02	0.0666	1		09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Fluoranthene	0.094	µg/l	0.03	0.0999	1		09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1		09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1		09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1		09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1		09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1		09/11/01	GLS
Liquid Organic Extraction	COMP						09/10/01	CKV

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

a VIVENDI water company

[redacted]

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7276
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.5
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: MW-2 Matrix: GRDWTR Sample Date/Time: 09/07/01 10:15 Lab No. 080807

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<1.60	µg/l	0.16	0.533	10		09/10/01	LMP
Bromobenzene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
Bromodichloromethane ES	140.	µg/l	0.2	0.666	10		09/10/01	LMP
n-Butylbenzene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
sec-Butylbenzene	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
tert-Butylbenzene	<1.80	µg/l	0.18	0.599	10		09/10/01	LMP
Carbon Tetrachloride ES	91.4	µg/l	0.3	0.999	10		09/10/01	LMP
Chlorobenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Dibromochloromethane	20.5	µg/l	0.22	0.733	10		09/10/01	LMP
Chloroethane	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
Chloroform ES	4,300.	µg/l	0.24	0.799	1000		09/11/01	LMP
Chloromethane	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
2-Chlorotoluene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
4-Chlorotoluene	<2.70	µg/l	0.27	0.899	10		09/10/01	LMP
Dibromochloropropane(DBCP)	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
1,2-Dibromoethane(EDB)	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
1,2-Dichlorobenzene	<3.60	µg/l	0.36	1.2	10		09/10/01	LMP
1,3-Dichlorobenzene	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
1,4-Dichlorobenzene	<2.70	µg/l	0.27	0.899	10		09/10/01	LMP
Dichlorodifluoromethane	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
1,1-Dichloroethane	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
1,2-Dichloroethane	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
1,1-Dichloroeth(yl)ene	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
cis-1,2-Dichloroeth(yl)ene	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
trans-1,2-Dichloroethylene	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
1,2-Dichloropropane	<3.50	µg/l	0.35	1.17	10		09/10/01	LMP
1,3-Dichloropropane	<2.60	µg/l	0.26	0.866	10		09/10/01	LMP
2,2-Dichloropropane	<2.90	µg/l	0.29	0.966	10		09/10/01	LMP
Ethylbenzene	23.0	µg/l	0.5	1.67	10		09/10/01	LMP
Hexachlorobutadiene	<10.0	µg/l	1.0	3.33	10		09/10/01	LMP
Isopropylbenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Isopropyl Ether	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
p-Isopropyltoluene	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
Methyl t-Butyl Ether(MTBE)	<3.00	µg/l	0.3	0.999	10		09/10/01	LMP
Methylene Chloride	6.73	µg/l	0.3	0.999	10		09/10/01	LMP
Naphthalene	<8.00	µg/l	0.8	2.66	10	CSH	09/10/01	LMP
n-Propylbenzene	<1.60	µg/l	0.16	0.533	10		09/10/01	LMP
Tetrachloroeth(yl)ene ES	25.7	µg/l	0.26	0.866	10		09/10/01	LMP
1,1,2,2-Tetrachloroethane	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
Toluene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
1,2,3-Trichlorobenzene	<4.00	µg/l	0.4	1.33	10	CSH	09/10/01	LMP
1,2,4-Trichlorobenzene	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
1,1,1-Trichloroethane	<2.00	µg/l	0.2	0.666	10		09/10/01	LMP
1,1,2-Trichloroethane	<2.00	µg/l	0.2	0.666	10		09/10/01	LMP
Trichloroeth(yl)ene ES	14.5	µg/l	0.26	0.866	10		09/10/01	LMP
Trichlorofluoromethane	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
1,2,4-Trimethylbenzene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
1,3,5-Trimethylbenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Vinyl Chloride	<3.90	µg/l	0.39	1.3	10		09/10/01	LMP
m- & p-Xylene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
o-Xylene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 237053130

a VIVENDI water company

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.6
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: MW-2 Matrix: GRDWTR Sample Date/Time: 09/07/01 10:15 Lab No. 080807

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1	SL	09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1	SL	09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1	SL	09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1	SL	09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1	SL	09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1	SL	09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1	SL	09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1	SL	09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1	SL	09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

VIVENDI water company

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.7
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: DUPLICATE Matrix: GRDWTR Sample Date/Time: 09/07/01 Lab No. 080808

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<1.60	µg/l	0.16	0.533	10		09/10/01	LMP
Bromobenzene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
Bromodichloromethane	134.	µg/l	0.2	0.666	10		09/10/01	LMP
n-Butylbenzene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
sec-Butylbenzene	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
tert-Butylbenzene	<1.80	µg/l	0.18	0.599	10		09/10/01	LMP
Carbon Tetrachloride	93.9	µg/l	0.3	0.999	10		09/10/01	LMP
Chlorobenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Dibromochloromethane	20.8	µg/l	0.22	0.733	10		09/10/01	LMP
Chloroethane	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
Chloroform	4,260.	µg/l	0.24	0.799	1000		09/12/01	LMP
Chloromethane	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
2-Chlorotoluene	<2.40	µg/l	0.24	0.799	10		09/10/01	LMP
4-Chlorotoluene	<2.70	µg/l	0.27	0.899	10		09/10/01	LMP
Dibromochloropropane(DBCP)	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
1,2-Dibromoethene(EDB)	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
1,2-Dichlorobenzene	<3.60	µg/l	0.36	1.2	10		09/10/01	LMP
1,3-Dichlorobenzene	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
1,4-Dichlorobenzene	<2.70	µg/l	0.27	0.899	10		09/10/01	LMP
Dichlorodifluoromethane	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
1,1-Dichloroethane	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
1,2-Dichloroethane	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
1,1-Dichloroeth(yl)ene	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
cis-1,2-Dichloroeth(yl)ene	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
trans-1,2-Dichloroethylene	<2.50	µg/l	0.25	0.833	10		09/10/01	LMP
1,2-Dichloropropane	<3.50	µg/l	0.35	1.17	10		09/10/01	LMP
1,3-Dichloropropane	<2.60	µg/l	0.26	0.866	10		09/10/01	LMP
2,2-Dichloropropane	<2.90	µg/l	0.29	0.966	10		09/10/01	LMP
Ethylbenzene	18.8	µg/l	0.5	1.67	10		09/10/01	LMP
Hexachlorobutadiene	<10.0	µg/l	1.0	3.33	10		09/10/01	LMP
Isopropylbenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Isopropyl Ether	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
p-Isopropyltoluene	<1.90	µg/l	0.19	0.633	10		09/10/01	LMP
Methyl t-Butyl Ether(MTBE)	<3.00	µg/l	0.3	0.999	10		09/10/01	LMP
Methylene Chloride	6.37	µg/l	0.3	0.999	10		09/10/01	LMP
Naphthalene	<8.00	µg/l	0.8	2.66	10	CSH	09/10/01	LMP
n-Propylbenzene	<1.60	µg/l	0.16	0.533	10		09/10/01	LMP
Tetrachloroeth(yl)ene	27.8	µg/l	0.26	0.866	10		09/10/01	LMP
1,1,2,2-Tetrachloroethane	<2.80	µg/l	0.28	0.932	10		09/10/01	LMP
Toluene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
1,2,3-Trichlorobenzene	<4.00	µg/l	0.4	1.33	10	CSH	09/10/01	LMP
1,2,4-Trichlorobenzene	<3.80	µg/l	0.38	1.27	10		09/10/01	LMP
1,1,1-Trichloroethane	<2.00	µg/l	0.2	0.666	10		09/10/01	LMP
1,1,2-Trichloroethane	<2.00	µg/l	0.2	0.666	10		09/10/01	LMP
Trichloroeth(yl)ene	15.6	µg/l	0.26	0.866	10		09/10/01	LMP
Trichlorofluoromethane	<1.50	µg/l	0.15	0.5	10		09/10/01	LMP
1,2,4-Trimethylbenzene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
1,3,5-Trimethylbenzene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP
Vinyl Chloride	<3.90	µg/l	0.39	1.3	10		09/10/01	LMP
m- & p-Xylene	<4.00	µg/l	0.4	1.33	10		09/10/01	LMP
o-Xylene	<1.70	µg/l	0.17	0.566	10		09/10/01	LMP

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All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc,
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6849
REPORT NO. : 080806.8
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: DUPLICATE Matrix: GRDWTR Sample Date/Time: 09/07/01 Lab No. 080808

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.1	µg/l	0.1	0.333	1	SL	09/11/01	GLS
Acenaphthylene	<0.15	µg/l	0.15	0.5	1	SL	09/11/01	GLS
Anthracene	<0.09	µg/l	0.09	0.3	1	SL	09/11/01	GLS
Benzo(a)Anthracene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Benzo(a)Pyrene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Benzo(b)Fluoranthene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Benzo(k)Fluoranthene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Benzo(ghi)Perylene	<0.09	µg/l	0.09	0.3	1	SL	09/11/01	GLS
Chrysene	<0.02	µg/l	0.02	0.0666	1	SL	09/11/01	GLS
Dibenzo(a,h)Anthracene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
Fluoranthene	<0.03	µg/l	0.03	0.0999	1	SL	09/11/01	GLS
Fluorene	<0.11	µg/l	0.11	0.366	1	SL	09/11/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
1-Methyl Naphthalene	<0.13	µg/l	0.13	0.433	1	SL	09/11/01	GLS
2-Methyl Naphthalene	<0.12	µg/l	0.12	0.4	1	SL	09/11/01	GLS
Naphthalene	<0.06	µg/l	0.06	0.2	1	SL	09/11/01	GLS
Phenanthrene	<0.11	µg/l	0.11	0.366	1	SL	09/11/01	GLS
Pyrene	<0.1	µg/l	0.1	0.333	1	SL	09/11/01	GLS
Liquid Organic Extraction	COMP		-	-	-		09/10/01	CKV

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Wisconsin Lab Certification No. 737053130

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[redacted]

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

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

PROJECT NO.: 6849
REPORT NO. : 080806.9
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Sample ID: TRIP BLANK-USF Matrix: WATER Sample Date/Time: 09/07/01 Lab No. 080809

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021								
Benzene	<0.16	µg/l	0.16	0.533	1		09/10/01	LMP
Bromobenzene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
Bromodichloromethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
n-Butylbenzene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
sec-Butylbenzene	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
tert-Butylbenzene	<0.18	µg/l	0.18	0.599	1		09/10/01	LMP
Carbon Tetrachloride	<0.3	µg/l	0.3	0.999	1		09/10/01	LMP
Chlorobenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Dibromochloromethane	<0.22	µg/l	0.22	0.733	1		09/10/01	LMP
Chloroethane	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
Chloroform	<0.24	µg/l	0.24	0.799	1		09/11/01	LMP
Chloromethane	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
2-Chlorotoluene	<0.24	µg/l	0.24	0.799	1		09/10/01	LMP
4-Chlorotoluene	<0.27	µg/l	0.27	0.899	1		09/10/01	LMP
Dibromochloropropane(DBCP)	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
1,2-Dibromoethane(EDB)	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
1,2-Dichlorobenzene	<0.36	µg/l	0.36	1.2	1		09/10/01	LMP
1,3-Dichlorobenzene	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
1,4-Dichlorobenzene	<0.27	µg/l	0.27	0.899	1		09/10/01	LMP
Dichlorodifluoromethane	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
1,1-Dichloroethane	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
1,2-Dichloroethane	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
1,1-Dichloroeth(yl)ene	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
cis-1,2-Dichloroeth(yl)ene	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
trans-1,2-Dichloroethylene	<0.25	µg/l	0.25	0.833	1		09/10/01	LMP
1,2-Dichloropropane	<0.35	µg/l	0.35	1.17	1		09/10/01	LMP
1,3-Dichloropropane	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
2,2-Dichloropropane	<0.29	µg/l	0.29	0.966	1		09/10/01	LMP
Ethylbenzene	<0.5	µg/l	0.5	1.67	1		09/10/01	LMP
Hexachlorobutadiene	<1.00	µg/l	1.0	3.33	1		09/10/01	LMP
Isopropylbenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Isopropyl Ether	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
p-Isopropyltoluene	<0.19	µg/l	0.19	0.633	1		09/10/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.3	µg/l	0.3	0.999	1		09/10/01	LMP
Methylene Chloride	<0.3	µg/l	0.3	0.999	1		09/10/01	LMP
Naphthalene	<0.8	µg/l	0.8	2.66	1	CSH	09/10/01	LMP
n-Propylbenzene	<0.16	µg/l	0.16	0.533	1		09/10/01	LMP
Tetrachloroeth(yl)ene	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
1,1,2,2-Tetrachloroethane	<0.28	µg/l	0.28	0.932	1		09/10/01	LMP
Toluene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
1,2,3-Trichlorobenzene	<0.4	µg/l	0.4	1.33	1	CSH	09/10/01	LMP
1,2,4-Trichlorobenzene	<0.38	µg/l	0.38	1.27	1		09/10/01	LMP
1,1,1-Trichloroethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
1,1,2-Trichloroethane	<0.2	µg/l	0.2	0.666	1		09/10/01	LMP
Trichloroeth(yl)ene	<0.26	µg/l	0.26	0.866	1		09/10/01	LMP
Trichlorofluoromethane	<0.15	µg/l	0.15	0.5	1		09/10/01	LMP
1,2,4-Trimethylbenzene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
1,3,5-Trimethylbenzene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP
Vinyl Chloride	<0.39	µg/l	0.39	1.3	1		09/10/01	LMP
m- & p-Xylene	<0.4	µg/l	0.4	1.33	1		09/10/01	LMP
o-Xylene	<0.17	µg/l	0.17	0.566	1		09/10/01	LMP

All Analyses conducted in accordance with USFilter Quality Assurance Program
Wisconsin Lab Certification No. 737053130

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3223

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

PROJECT NO.: 6849
REPORT NO. : 080806.10
DATE REC'D : 09/08/01
REPORT DATE: 09/13/01
PREPARED BY: JRS

Attn: Jim Westerman

Qualifier Descriptions

J	Estimated concentration below laboratory quantitation level.
CSH	Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
SL	Surrogate recovery was low. Result for sample may be biased low.

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: JIM WESTERMAN
Company: SIGMA ENVIRONMENTAL
Address: 220 E. RYAN RD.
OAK CREEK, WI
Phone: (414) 768-7144
P.O. #
Project # 6849 Quote # 7168-4
Location MILWAUKEE, WI

BILL TO: (if different from Report To info)
Name:
Company: Same
Address:
Phone: ( )

Sample Type
(Check all that apply)
- [x] Groundwater
- [ ] Wastewater
- [ ] Soil/Solid
- [ ] Drinking Water
- [ ] Oil
- [ ] Vapor
- [ ] Other

Turnaround Time
- [ ] Normal
- [x] Rush (Pre-approved by Lab)

Date Needed 9/12/01
Approved By
3 day turnaround

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	VOC	PAH	TEMPERATURE			REMARKS
15080806	9/7/01	9:35		4	MW-1	X	X				1 amber liter 3 vials
15080807	9/7/01	10:15		~~4~~ 5	MW-2	X	X				2 - amber liter 3 vials
15080808	9/7/01	—		4	DUPLICATE	X	X				1 amber liter 3 vials
	9/7/01	—		1	QC-MW-2		X				
	—	—		1	TEMP. BLANK			X			
15080809	—	—		2	TRIP BLANK	X					2 vials 8-23-01 TB026 BL 2.12 01U1

RUSH

Del: Hand Comm
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A 1°C

Comments: Copy to Cindy Lancia, Betty, et al.

CHAIN OF CUSTODY RECORD

SAMPLERS: (Signature)		
RELINQUISHED BY: (Signature) [signature]	DATE/TIME 9/7/01 14:35	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature) [signature] DATE/TIME 9-9-01