GIS REGISTRY INFORMATION

SITE NAME: Arrow Olds

BRRTS #: 02-41-270434 | **FID # (if appropriate): 241262780**

COMMERCE # (if appropriate):

CLOSURE DATE: 05/05/2006

STREET ADDRESS: 4201 S 27th St

CITY: Milwaukee

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): **X=** 687209 **Y=** 279313

CONTAMINATED MEDIA: Groundwater [ ] Soil [x] Both [ ]

OFF-SOURCE GW CONTAMINATION >ES: [ ] Yes [x] No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): **X=** **Y=**

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL): [ ] Yes [x] No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): **X=** **Y=**

CONTAMINATION IN RIGHT OF WAY: [ ] Yes [x] No

DOCUMENTS NEEDED:

Closure Letter, and any conditional closure letter or denial letter issued 85 Cap Maint Plan

Copy of any maintenance plan referenced in the final closure letter.

Copy of (soil or land use) deed notice *if any required as a condition of closure*

Copy of most recent deed, including legal description, for all affected properties

Certified survey map or relevant portion of the recorded plat map (*if referenced in the legal description*) for all affected properties

County Parcel ID number, *if used for county*, for all affected properties

Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.

Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.

Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)

Tables of Latest Soil Analytical Results (no shading or cross-hatching)

Isoconcentration map(s), *if required for site investigation (SI)* (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. **If not available, include the latest extent of contaminant plume map.**

GW: Table of water level elevations, with sampling dates, and free product noted if present

GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)

SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour

Geologic cross-sections, *if required for SI.* (8.5x14' if paper copy)

RP certified statement that legal descriptions are complete and accurate

Copies of off-source notification letters (if applicable)

Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212
Telephone 414-263-8500
FAX 414-263-8606
TTY 711

May 5, 2006

In Reply, Refer to: FID# 241262780
BRRTS# 02-41-270434
BRR/ERP

BRE 1, LLC
Attn: Mr. Jay Ergen
4100 S 27th Street
Milwaukee, WI 53221

Subject: Final Case Closure - Braeger Chrysler, 4201 & 4241 S 27th Street, Milwaukee, WI

Dear Mr. Ergen:

On December 5, 2002, you were notified that conditional closure was granted for the site listed above. The conditions were that additional steps were required to achieve case closure for this site. The Department reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases.

On April 13, 2006, the Department received correspondence indicating that you have complied with the additional case closure requirements. The requirements included documentation that the Department approved deed restriction and cap maintenance plan were recorded. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

FUTURE EXCAVATION OF RESIDUAL CONTAMINATED SOIL

Residual soil contamination remains at the site, as indicated in the information submitted to the Department of Natural Resources. All current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard at the time of excavation. **Special precautions may need to be taken during excavation activities to prevent a direct contact health threat to humans**. Based upon the results of sample analysis, the current owner will also have to properly store, treat, or dispose of any excavated materials, in accordance with state and federal laws.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit http://dnr.wi.gov/org/aw/rr/gis/index.htm

Your site was closed with the requirement that a deed restriction, requiring maintenance and inspection of the exposure barrier, be recorded at the county Register of Deeds office, and that maintenance of the cap be conducted as described in the maintenance and inspection plan, attached to the deed restriction. The maintenance plan and inspection log are to be kept up-to-date and on-site, and the inspection log need only be submitted to the Department upon request. A copy of the deed restriction and the referenced maintenance plan can be found in the

Department's regional files, or they can be viewed on the GIS Registry for this site, at http://dnr.wi.gov/org/aw/rr/gis/index.htm.

If this is a PECFA site, section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

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

We appreciate your efforts to restore the environment at this site. If you have any questions or concerns regarding this letter, please contact me at (414) 263- 8541.

Sincerely,

Andrew F Boettcher
Hydrogeologist – RR/SER

CC: Kristin Kurzka, Sigma Environmental, 1300 W Canal Street, Milwaukee, WI 53233

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

WISCONSIN
DEPT. 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

December 4, 2002

Braeger Reality, LLC
4100 South 27th Street,
Milwaukee, WI 53221

Subject: Conditional Case Closure, Braeger Chrysler, 4201 and 4241 South 27th Street, Milwaukee, WI. FID# 24126780, BRRTS#02-41-270434

Dear Mr. Lon Bahr:

On December 3, 2002, your request for closure of the case described above was reviewed by the Closure Committee. The Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the DRO and PAH contamination on the site from the Catch Basins and the underground hydraulic hoists appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

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

To close this site, the Department requires that a deed restriction be signed and recorded to address the issue of the remaining soil contamination associated with the site. The purpose of the restriction is to maintain a surface barrier over the remaining soil contamination to prevent it from impacting human health and the environment, and/or require that the owner of the property investigate the degree and extent of residual contamination that is currently inaccessible, if structural impediments that currently exist on the property are removed. I have enclosed the Deed Restriction Form. Option 1 and Option 2 apply to this site and must be included in your Deed Restriction. This site will also be placed on the GIS Registry.

You will need to submit a draft deed restriction to me before the document is signed and recorded. You may find a model deed restriction enclosed for your use or visit our web site at www.dnr.state.wi.us/org/rr. To assist us in our review of the deed restriction, you should submit a copy of the property deed to me along with the draft document. After the Department of Natural Resources has reviewed the draft document for completeness, you should sign it if you own the property, or have the appropriate property owner sign it, and have it recorded at the Milwaukee County Register of Deeds. Then you must submit a copy of the recorded document, with the recording information stamped on it, to me. Please be aware that if a deed restriction is recorded for the wrong property because of an inaccurate legal description that you have provided, you will be responsible for recording corrected documents at the Register of Deeds Office to correct the problem. In addition you must send a $250 check made out to the

Wisconsin Department of Natural Resources and a completed GIS Registry Packet. I have included a Current Case Summary and Close out Form, which includes the information needed for GIS Registry Information.

When the above conditions have been satisfied, please submit a letter to let me know that applicable conditions have been met, and your case will be closed. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm]

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

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 414-263-8366.

Sincerely,

Barbara G. Grundl, PG
Hydrogeologist
Bureau for Remediation & Redevelopment

Enclosure

cc: Kristin Kurzka, Sigma Environmental Services, Inc.
SER Case Files

Document Number | DEED RESTRICTION

09214877

DOC.# 09214877

REGISTER'S OFFICE | SS
Milwaukee County, WI|

RECORDED 04/07/2006 02:52PM

JOHN LA FAVE
REGISTER OF DEEDS

AMOUNT: 31.00

Recording Area

Name and Return Address

Braeger Company of Wisconsin
Attn: Mr. Jay Ergen
4100 South 27th Street
Milwaukee, WI 53221

576-9995-001
Tax Key Number

Declaration of Restrictions

In Re: Parcel 1 of Certified Survey Map No. 6003, recorded on July 22, 1994, Reel 3336, Images 975 to 978 inclusive, as Document No. 6981083, a redivision of land in the Northeast ¼ of Section 24, Township 6 North, Range 21 East, in the City of Greenfield, County of Milwaukee, State of Wisconsin, as corrected by Affidavit of Correction recorded on October 28, 1994, as Document No. 7018765.

STATE OF WISCONSIN)
) ss
COUNTY OF MILWAUKEE)

WHEREAS, BRE 1, LLC, is the owner of the above-described property.

WHEREAS, soil material contaminated with petroleum hydrocarbons is present on this property. Soil contaminated with petroleum may remain on this property beneath the building and asphalt paving on the property as shown in **Figure 4, Figure 5, Figure 6,** and **Figure 7**.

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

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

> The pavement or other impervious cap that existed on the above-described property on the date that this restriction was signed shall be maintained in compliance with the "Barrier Operation and Maintenance Plan" (**Exhibit A**) dated March 3, 2006 that was submitted to the Wisconsin Department of Natural Resources by BRE 1, LLC, as required by section NR 724.13 (2), Wis. Adm. Code (October 1999). This pavement or other impervious cap must be maintained in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil that remains on the property in the locations described on **Figure 4, Figure 5, Figure**

6, and **Figure 7** is excavated in the future, the soil must be sampled and analyzed, may be considered solid or hazardous waste if residual contamination remains and must be stored, treated and disposed in compliance with applicable statutes and rules.

In addition, the following activities are prohibited on that portion of the above-described property where a barrier exists as depicted on **Figure 4, Figure 5, Figure 6,** and **Figure 7**, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources or its successor or assign: (1) Excavating or grading of the land surface; (2) Filling on the capped area; (3) Plowing for agricultural cultivation; and (4) Construction or installation of a building or other structure with a foundation that would sit on or be placed within the cap or cover.

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

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that one or more of the restrictions set forth in this covenant is no longer required. Upon the receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. If the Department determines that the restrictions can be extinguished, an affidavit, attached to a copy of the Department's written determination, may be recorded by the property owner or other interested party to give notice that this deed restriction, or portions of this deed restriction, are no longer binding.

IN WITNESS WHEREOF, the owner of the property has executed this Declaration of Restrictions, this 7 day of April, 20 06.

Signature: _____

Printed Name: JAY BRGEV
member of BRE LLC

Subscribed and sworn to before me
this 7th day of April, 20 06.

_____

JERRY GAZINSKI
Notary Public
State of Wisconsin

Notary Public, State of Wisconsin
My commission 9-21-08

This document was drafted by Sigma Environmental Services, Inc. based on comments from the Wisconsin Department of Natural Resources.

Exhibit A

BARRIER OPERATION AND MAINTENANCE PLAN
BRAEGER CHRYSLER
4201 SOUTH 27TH STREET, MILWAUKEE, WISCONSIN
March 30, 2006

The Barrier Operation and Maintenance Plan (BOMP) is designed to limit infiltration of water at the site, and thereby, limit migration of known soil contamination that exists beneath the paved surface, and limit direct contact with the known soil contamination, at the Braeger Chrysler property, as shown in **Figure 4, Figure 5, Figure 6,** and **Figure 7.** The asphalt surface, or any replacement barrier, will function as intended unless disturbed.

Disturbance Management. BRE 1,LLC (site owner) shall take the following steps to assure that uncontrolled disturbances of the barrier do not occur:

- A deed restriction will be recorded for this portion of the Braeger Chrysler property which limits future use, development, and management of the property. This BOMP is incorporated into the deed restriction.

- A copy of this BOMP will be available on-site from the property owner to all interested parties.

- A copy of this BOMP will be provided to all contractors and repair workers during any intrusive subsurface work on this portion of the property.

Inspections of Barrier. Inspections will be required to assure that the barrier is functioning as intended:

- Annual inspections of the paved surface will be performed by authorized personnel from BRE 1, LLC, and will include observations about the integrity of the paved surface in the vicinity of the residual soil impacts. Inspections will be compared to the previous inspection notes to monitor the relative condition of the paved surface.

- As necessary, the engineered barriers will be repaired to maintain integrity. Repairs may include, but are not limited to, patching or replacing the paved surface where it has cracked or otherwise broken.

- An inspection log will be maintained on-site to record any disturbances of the barrier and the steps that have been taken to maintain the integrity of the barrier. The inspection log will be made available for inspection by representatives of the Wisconsin Department of Natural Resources upon reasonable prior request. The on-site inspection log will be maintained as long as inspection and maintenance of the barrier is required. A copy of the log is attached hereto as **Exhibit B.**

Planned Breaches of Barrier. In the event that a planned breach of the barrier is required, the following precautions shall be taken:

- The City of Milwaukee shall be given 48-hour notice of any planned breach.

- To the extent possible, all material excavated from beneath the barrier will be returned to the excavation prior to the restoration of the barrier. The excavation zone and any soils excavated will be secured from public access until the barrier is restored. While on-site, the excavated soil will be placed on an impervious surface (e.g., existing concrete and/or plastic) and covered with plastic. Soil that cannot be returned to the excavation will be sampled and disposed of at a licensed landfill facility in accordance with applicable solid and hazardous waste rules and regulations. All contaminated soils that are stored, treated, excavated, removed, or transported off-site shall be managed per procedures and reporting requirements set forth in ch. NR 718, Wisconsin Administrative Code.

- The barrier will be restored to meet original conditions. This work, including the proper disposal of excess soils, should be completed within 72 hours following the completion of any on-site work, or as soon as reasonably practical.

- Details of the barrier breach, the handling of excavated soils, individuals responsible for the work, and the restoration of the barrier shall be recorded in the barrier maintenance log.

Amendments. The BOMP may be amended or withdrawn upon written approval from the Wisconsin Department of Natural Resources or its successor agency.

Contact Information.
For responsible party and owner information contact:

BRE 1, LLC
Attn: Mr. Jay Ergen
4100 South 27th Street
Milwaukee, WI 53221
Telephone: (414) 281-5000

For environmental consultant information contact:

Ms. Kristin Kurzka, P.E.
Sigma Environmental Services, Inc.
1300 West Canal Street
Milwaukee, WI 53233
Telephone: (414) 643-4200
Fax: (414) 643-4210

For Wisconsin Department of Natural Resources information contact:

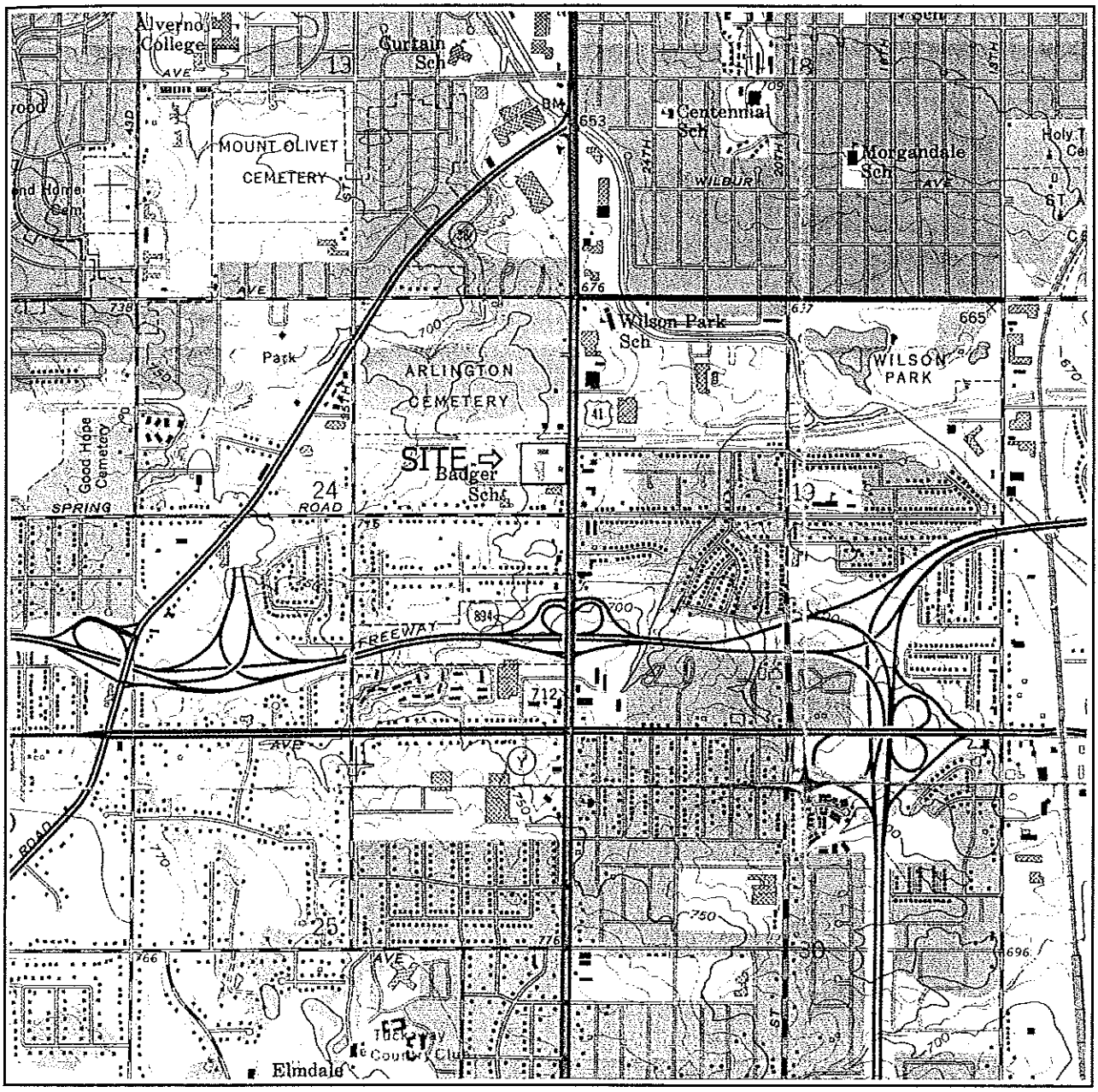
Ms. Victoria Stovall
Wisconsin Department of Natural Resources
Southeast Region Headquarters Remediation & Redevelopment Program
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212
Telephone: (414) 263-8688
Fax: (414) 263-8483

Exhibit A Continued

(**Exhibit B**)

Barrier INSPECTION LOG

Inspection Date	Inspector	Condition of Cap	Recommendations	Have Recommendations from previous inspection been implemented?



SE ¼ of the NE ¼ of of Sec. 24, T6N, R21E Adapted from U.S.G.S. 7.5 minute series,Greendale, Wisconsin, quadrangle dated 1958 (photorevised 1971 and 1976).

SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

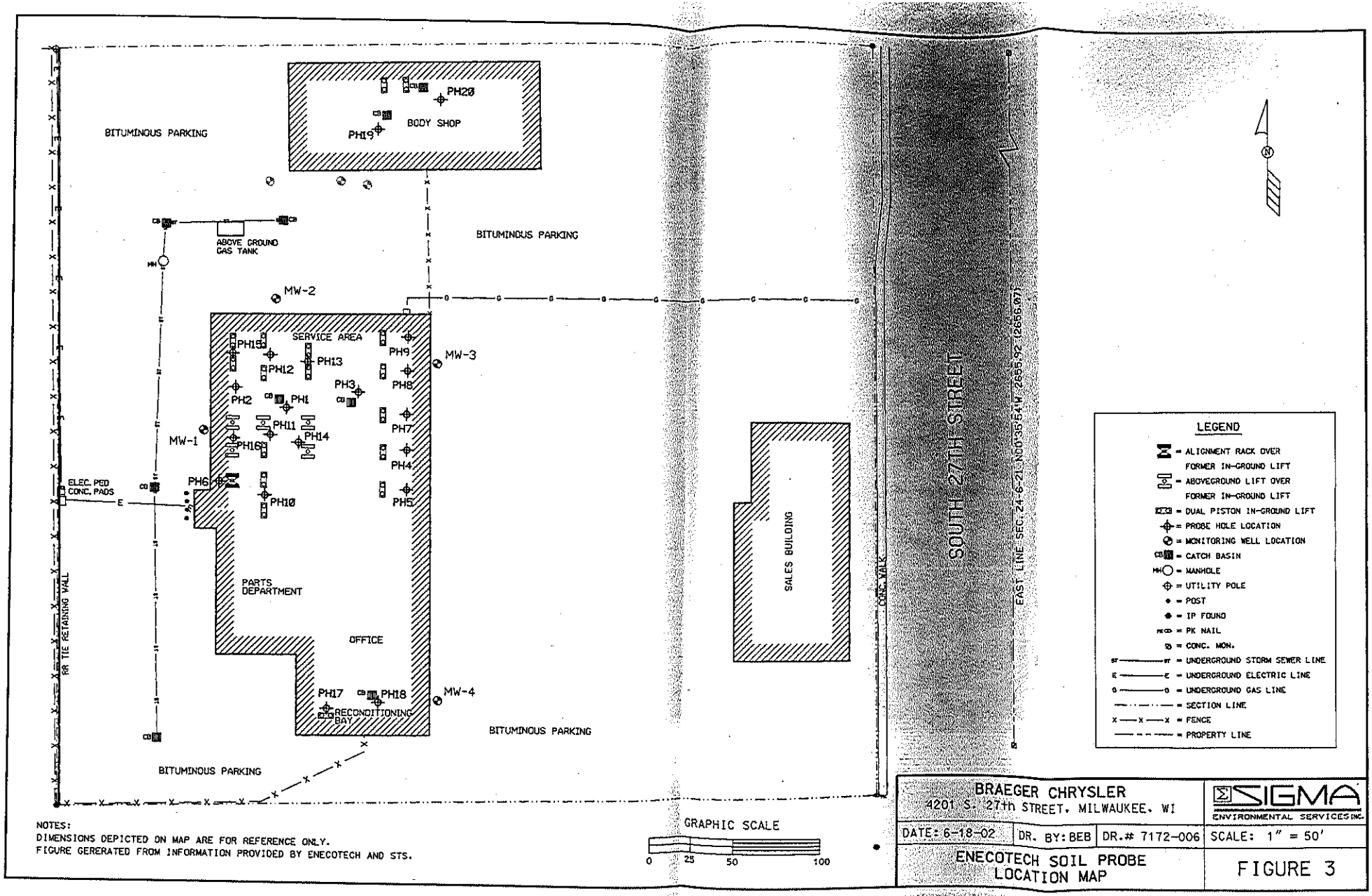
CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

N

Figure 1. Site Location Map
Braeger Chrysler
4201 & 4241 S. 27th St., Greenfield, Wisconsin

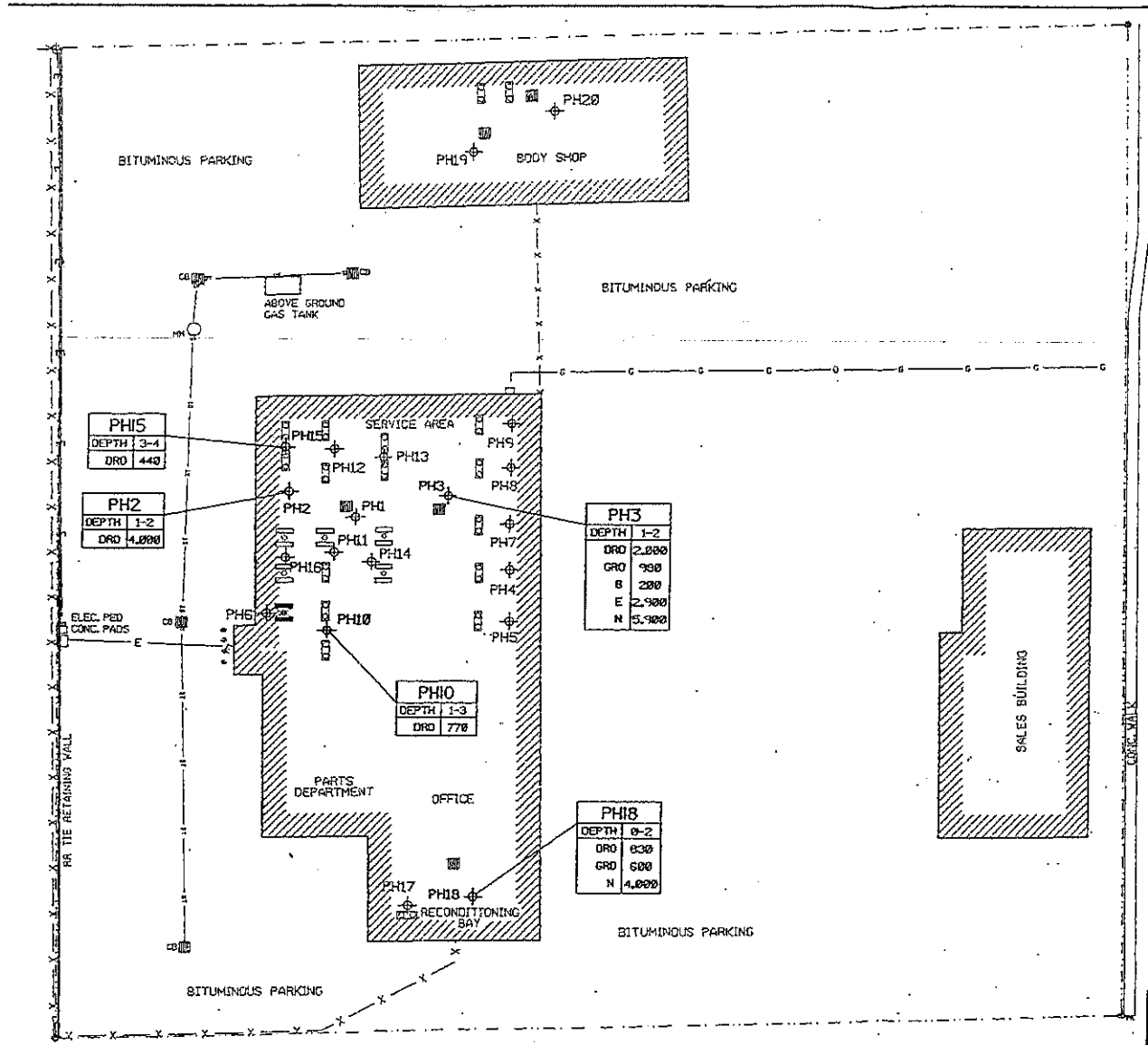
SIGMA
ENVIRONMENTAL SERVICES INC.

7172fig1.ppt



NOTES:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY.
FIGURE GERERATED FROM INFORMATION PROVIDED BY ENECOTECH AND STS.

BRAEGER CHRYSLER 4201 S. 27th STREET, MILWAUKEE, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 6-18-02	DR. BY: BEB	DR.# 7172-006	SCALE: 1" = 50'
ENECOTECH SOIL PROBE LOCATION MAP			FIGURE 3



ANALYTICAL KEY

DRO = DIESEL RANGE ORGANICS
GRO = GASOLINE RANGE ORGANICS
B = BENZENE
E = ETHYLBENZENE
N = NAPHTHALENE

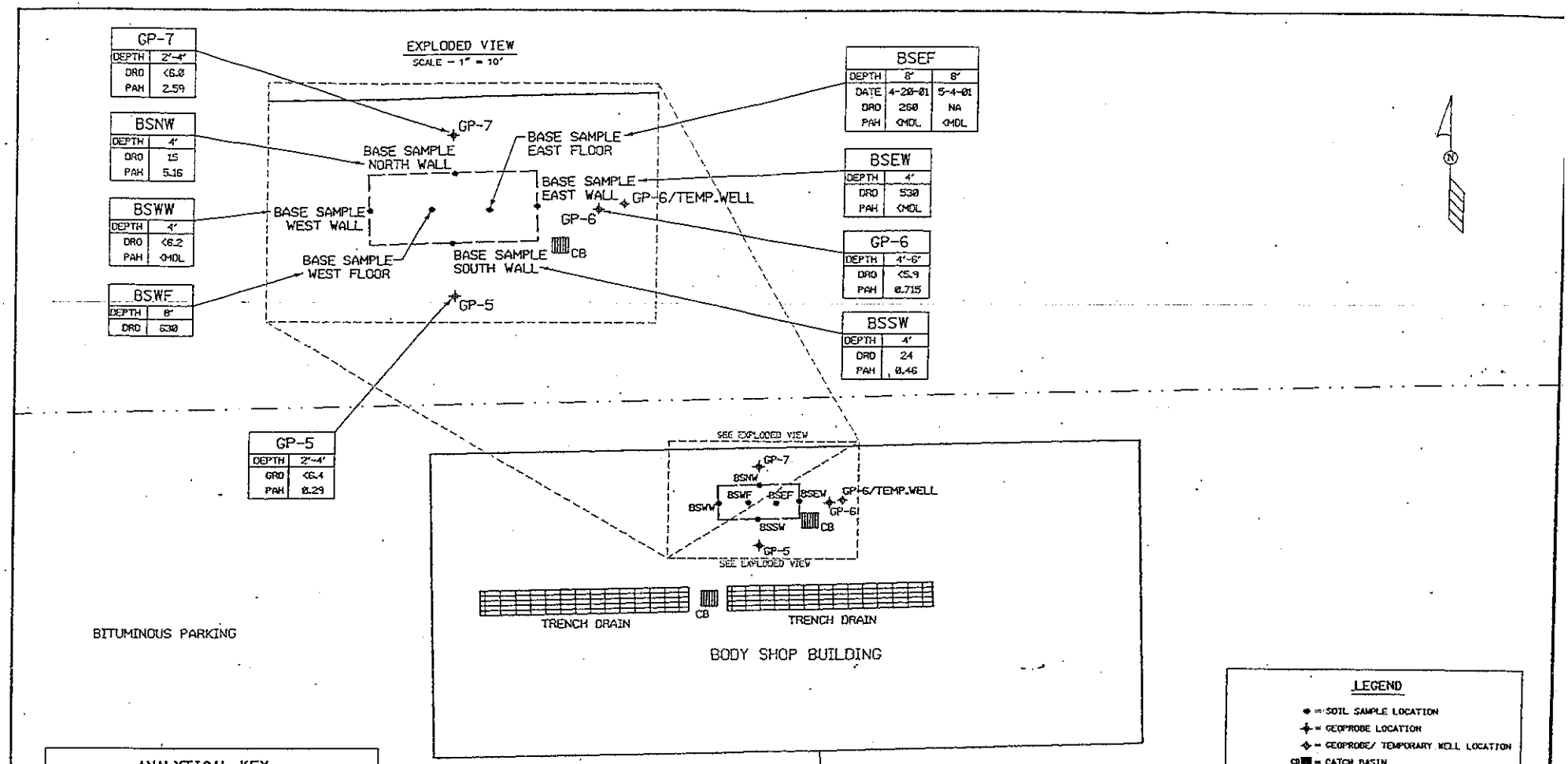
ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/kg) EXCEPT FOR GRO AND DRO WHICH ARE EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/kg)

LEGEND

= ALIGNMENT RACK OVER FORMER IN-GROUND LIFT
= ABOVEGROUND LIFT OVER FORMER IN-GROUND LIFT
= DUAL PISTON IN-GROUND LIFT
= PROBEHOLE LOCATION
= MONITORING WELL LOCATION
CB = CATCH BASIN
MH = MANHOLE
= UTILITY POLE
= POST
= IP FOUND
= PK NAIL
= CONC. MON.
ST — ST = UNDERGROUND STORM SEWER LINE
C — E = UNDERGROUND ELECTRIC LINE
G — G = UNDERGROUND GAS LINE
= SECTION LINE
X — X — X = FENCE
= PROPERTY LINE

NOTES:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY.
FIGURE GERERATED FROM INFORMATION PROVIDED BY ENECOTECH AND STS.

BRAEGER CHRYSLER 4201 S. 27th STREET, MILWAUKEE, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 4-25-02	DR. BY: BEB	DR.# 7172-010	SCALE: 1" = 50'
ENECO TECH SOIL PROBE SOIL QUALITY MAP			FIGURE 4



GP-7	
DEPTH	2'-4'
DRO	<6.0
PAH	2.59

BSNW	
DEPTH	4'
DRO	15
PAH	5.16

BSWW	
DEPTH	4'
DRO	<6.2
PAH	<MDL

BSWF	
DEPTH	8'
DRO	630

GP-5	
DEPTH	2'-4'
DRO	<6.4
PAH	0.29

BSEF		
DEPTH	8'	8'
DATE	4-20-01	5-4-01
DRO	260	NA
PAH	<MDL	<MDL

BSEW	
DEPTH	4'
DRO	530
PAH	<MDL

GP-6	
DEPTH	4'-6'
DRO	<5.9
PAH	0.715

BSSW	
DEPTH	4'
DRO	24
PAH	0.46

ANALYTICAL KEY

PAH = TOTAL POLYNUCLEAR AROMATIC HYDROCARBONS
DRO = DIESEL RANGE ORGANICS
MDL = METHOD DETECTION LIMIT
NA = NOT ANALYZED

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

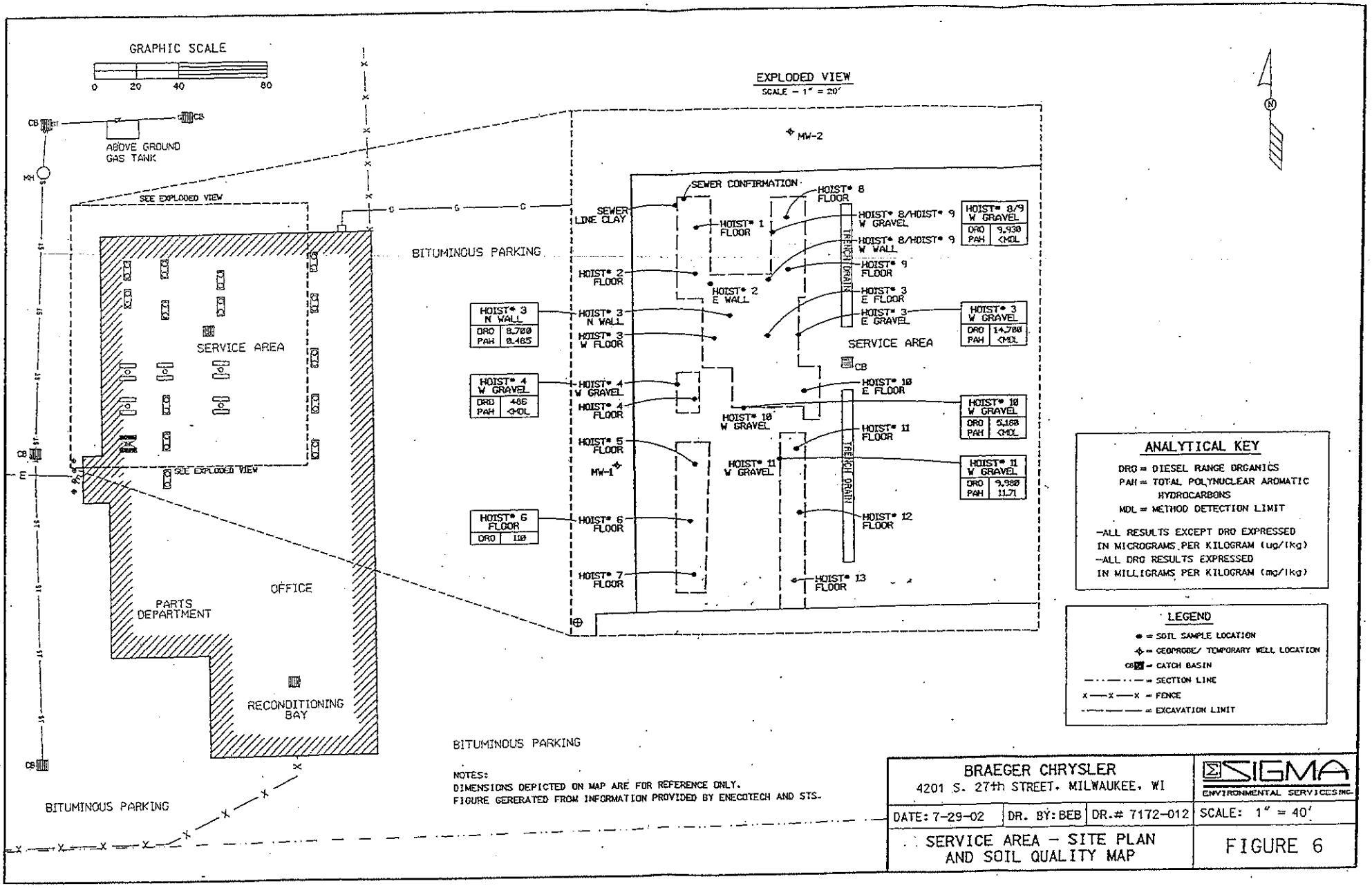
LEGEND

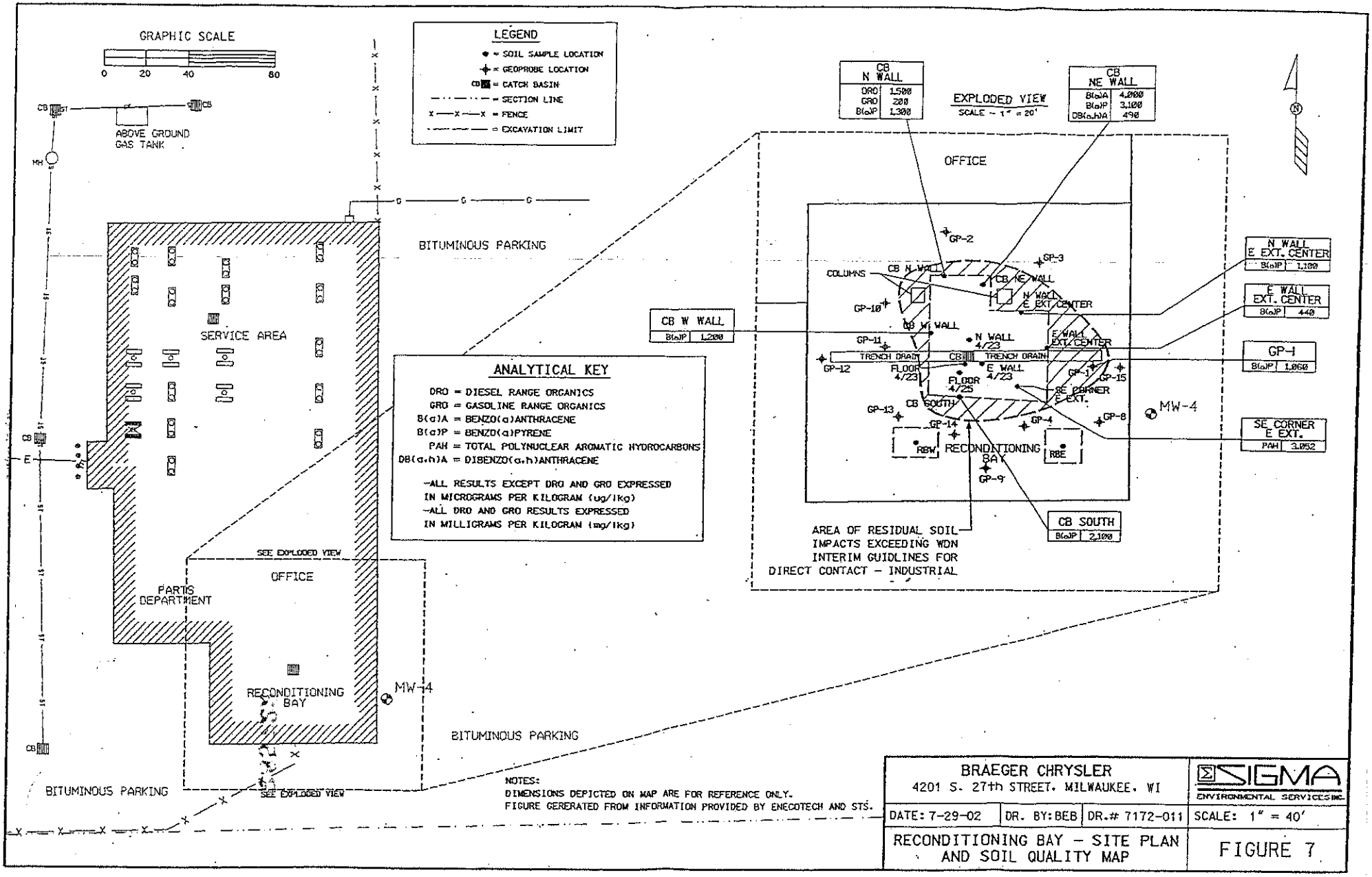
- = SOIL SAMPLE LOCATION
- = GEOPROBE LOCATION
- = GEOPROBE/ TEMPORARY WELL LOCATION
- CB = CATCH BASIN
- = SECTION LINE
- x—x—x = FENCE
- = EXCAVATION LIMIT

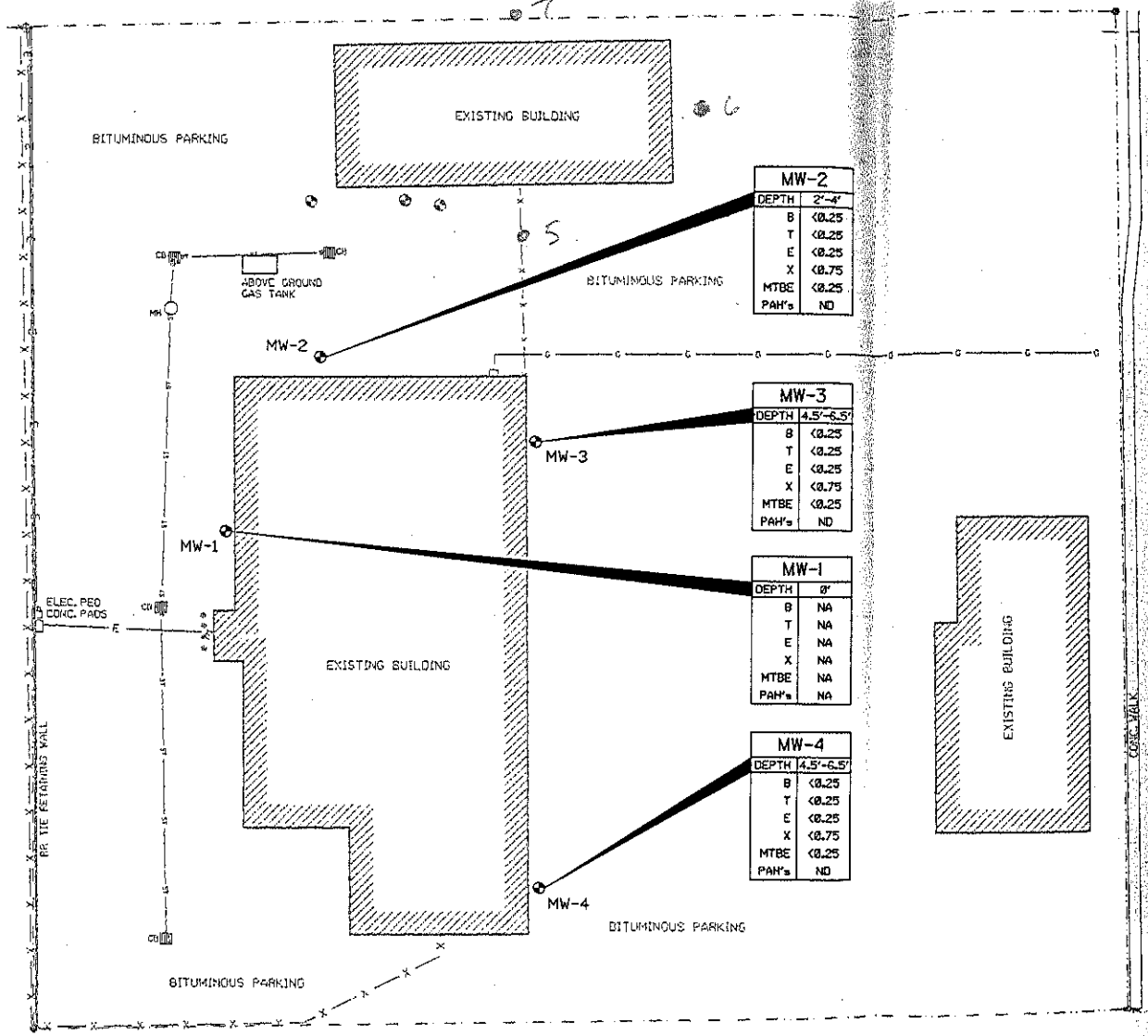
NOTE:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY - FIGURE GENERATED FROM INFORMATION PROVIDED BY STS.

GRAPHIC SCALE
0 10 20 40

BRAEGER CHRYSLER 4201 S. 27th STREET, MILWAUKEE, WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 6-18-02	DR. BY: BEB	DR.# 7172-009	SCALE: 1" = 20'
BODY SHOP - SITE PLAN AND SOIL QUALITY MAP			FIGURE 5


GRAPHIC SCALE
0 20 40 80
ABOVE GROUND GAS TANK
SEE EXPLODED VIEW
SERVICE AREA
PARTS DEPARTMENT
OFFICE
RECONDITIONING BAY
BITUMINOUS PARKING
EXPLODED VIEW
SCALE - 1" = 20'
MW-2
MW-1
SEWER CONFIRMATION
SEWER LINE CLAY
HOIST# 1 FLOOR
HOIST# 2 FLOOR
HOIST# 2 E WALL
HOIST# 3 N WALL
HOIST# 3 W FLOOR
HOIST# 4 W GRAVEL
HOIST# 4 FLOOR
HOIST# 5 FLOOR
HOIST# 6 FLOOR
HOIST# 7 FLOOR
HOIST# 8 FLOOR
HOIST# 8/HOIST# 9 W GRAVEL
HOIST# 8/HOIST# 9 W WALL
HOIST# 9 FLOOR
HOIST# 3 E FLOOR
HOIST# 3 E GRAVEL
HOIST# 10 W GRAVEL
HOIST# 10 E FLOOR
HOIST# 11 FLOOR
HOIST# 11 W GRAVEL
HOIST# 12 FLOOR
HOIST# 13 FLOOR
TRENCH DRAIN
HOIST# 3 N WALL DRO 8,700 PAH 0.465
HOIST# 4 W GRAVEL DRO 486 PAH <MDL
HOIST# 6 FLOOR DRO 110
HOIST# 8/9 W GRAVEL DRO 9,930 PAH <MDL
HOIST# 3 W GRAVEL DRO 14,700 PAH <MDL
HOIST# 10 W GRAVEL DRO 5,160 PAH <MDL
HOIST# 11 W GRAVEL DRO 9,980 PAH 11.71
ANALYTICAL KEY
DRO = DIESEL RANGE ORGANICS
PAH = TOTAL POLYNUCLEAR AROMATIC HYDROCARBONS
MDL = METHOD DETECTION LIMIT
-ALL RESULTS EXCEPT DRO EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/lkg)
-ALL DRO RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/lkg)
LEGEND
= SOIL SAMPLE LOCATION
= GEOPROBE/ TEMPORARY WELL LOCATION
= CATCH BASIN
= SECTION LINE
= FENCE
= EXCAVATION LIMIT
NOTES:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY.
FIGURE GERERATED FROM INFORMATION PROVIDED BY ENECOTECH AND STS.
BRAEGER CHRYSLER
4201 S. 27th STREET, MILWAUKEE, WI
SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 7-29-02
DR. BY: BEB
DR.# 7172-012
SCALE: 1" = 40'
SERVICE AREA - SITE PLAN AND SOIL QUALITY MAP
FIGURE 6


GRAPHIC SCALE
0 20 40 80
LEGEND
= SOIL SAMPLE LOCATION
= GEOPROBE LOCATION
= CATCH BASIN
= SECTION LINE
= FENCE
= EXCAVATION LIMIT
ABOVE GROUND GAS TANK
BITUMINOUS PARKING
SERVICE AREA
PARTS DEPARTMENT
OFFICE
SEE EXPLODED VIEW
RECONDITIONING BAY
MW-4
BITUMINOUS PARKING
ANALYTICAL KEY
DRO = DIESEL RANGE ORGANICS
GRO = GASOLINE RANGE ORGANICS
B(a)A = BENZO(a)ANTHRACENE
B(a)P = BENZO(a)PYRENE
PAH = TOTAL POLYNUCLEAR AROMATIC HYDROCARBONS
DB(a,h)A = DIBENZO(a,h)ANTHRACENE
-ALL RESULTS EXCEPT DRO AND GRO EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/lkg)
-ALL DRO AND GRO RESULTS EXPRESSED IN MILLIGRAMS PER KILOGRAM (mg/lkg)
EXPLODED VIEW
SCALE ~ 1" = 20'
CB N WALL
DRO 1,500
GRO 200
B(a)P 1,300
CB NE WALL
B(a)A 4,000
B(a)P 3,100
DB(a,h)A 490
CB W WALL
B(a)P 1,200
N WALL E EXT. CENTER
B(a)P 1,100
E WALL EXT. CENTER
B(a)P 440
GP-1
B(a)P 1,060
SE CORNER E EXT.
PAH 3,052
CB SOUTH
B(a)P 2,100
OFFICE
COLUMNS
CB N WALL
CB NE WALL
N WALL E EXT. CENTER
CB W WALL
N WALL 4/23
E WALL EXT. CENTER
TRENCH DRAIN
CB
TRENCH DRAIN
FLOOR 4/23
E WALL 4/23
FLOOR 4/25
SE CORNER E EXT.
CB SOUTH
RBW
RECONDITIONING BAY
RBE
MW-4
GP-1
GP-2
GP-3
GP-4
GP-8
GP-9
GP-10
GP-11
GP-12
GP-13
GP-14
GP-15
AREA OF RESIDUAL SOIL IMPACTS EXCEEDING WDN INTERIM GUIDLINES FOR DIRECT CONTACT - INDUSTRIAL
NOTES:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY.
FIGURE GERERATED FROM INFORMATION PROVIDED BY ENECOTECH AND STS.
BRAEGER CHRYSLER
4201 S. 27th STREET, MILWAUKEE, WI
SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 7-29-02
DR. BY: BEB
DR.# 7172-011
SCALE: 1" = 40'
RECONDITIONING BAY - SITE PLAN AND SOIL QUALITY MAP
FIGURE 7



MW-2	
DEPTH	2'-4'
B	<0.25
T	<0.25
E	<0.25
X	<0.75
MTBE	<0.25
PAH's	ND

MW-3	
DEPTH	4.5'-6.5'
B	<0.25
T	<0.25
E	<0.25
X	<0.75
MTBE	<0.25
PAH's	ND

MW-1	
DEPTH	0'
B	NA
T	NA
E	NA
X	NA
MTBE	NA
PAH's	NA

MW-4	
DEPTH	4.5'-6.5'
B	<0.25
T	<0.25
E	<0.25
X	<0.75
MTBE	<0.25
PAH's	ND

ANALYTICAL KEY

B = BENZENE
T = TOLUENE
E = ETHYLBENZENE
X = TOTAL XYLENES
MTBE = METHYL-TERT-BUTYL-ETHER
PAH's = POLYNUCLEAR AROMATIC HYDROCARBONS
ND = ND DETECT

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

LEGEND

= MONITORING WELL
= CATCH BASIN
= MANHOLE
= UTILITY POLE
= POST
= IP FOUND
= PK NAIL
= CONC. MON.
= UNDERGROUND STORM SEWER LINE
= UNDERGROUND ELECTRIC LINE
= UNDERGROUND GAS LINE
= SECTION LINE
= FENCE
= PROPERTY LINE

NOTE:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY – SITE SURVEY PERFORMED BY SIGMA. DATED 4-11-02.

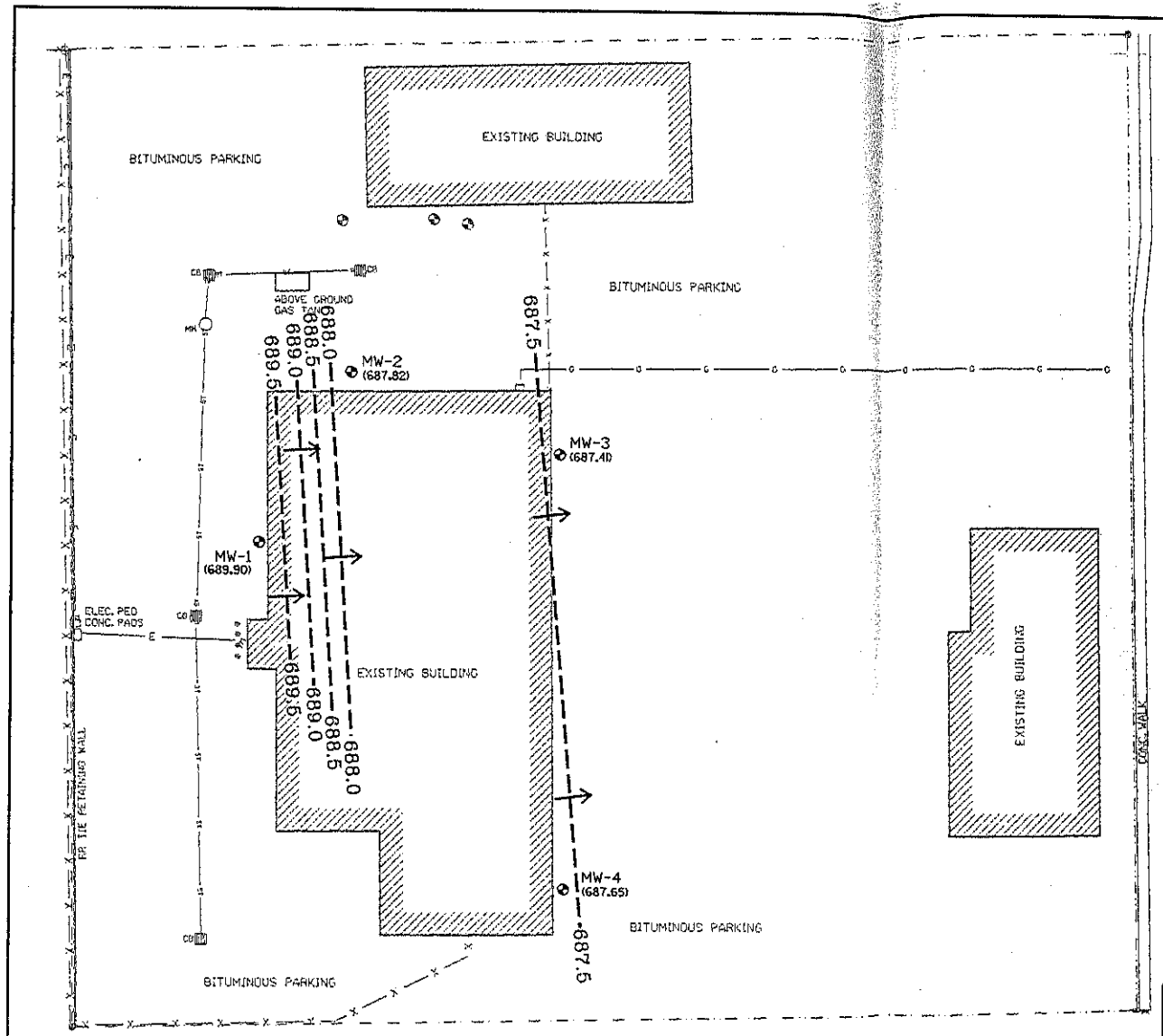
BRAEGER CHRYSLER
4201 S. 27th STREET, MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 5-3-02	DR. BY: BEB	DR.# 7172-005	SCALE: 1" = 50'

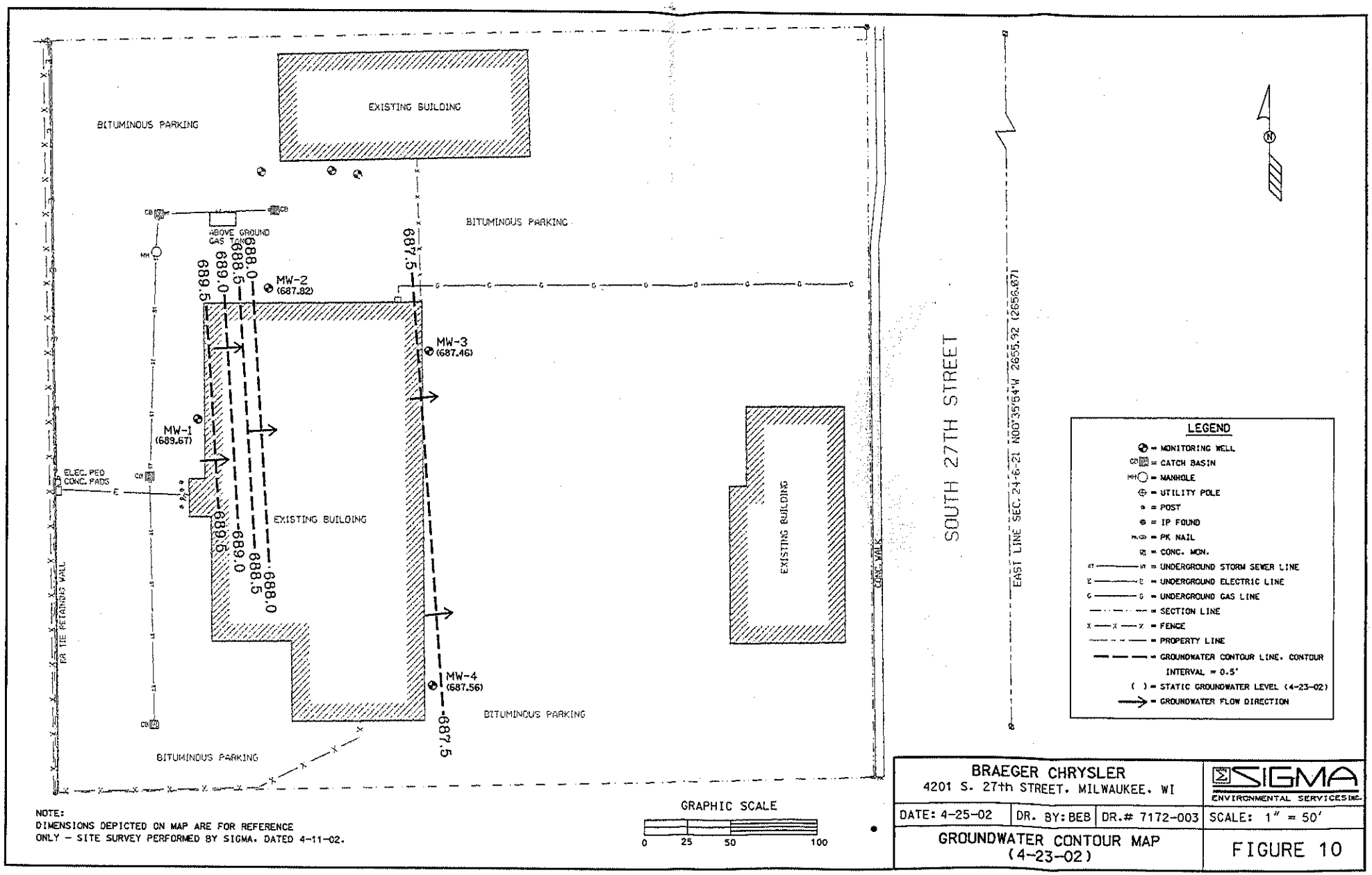
SOIL QUALITY MAP (4-12-01)

FIGURE 8



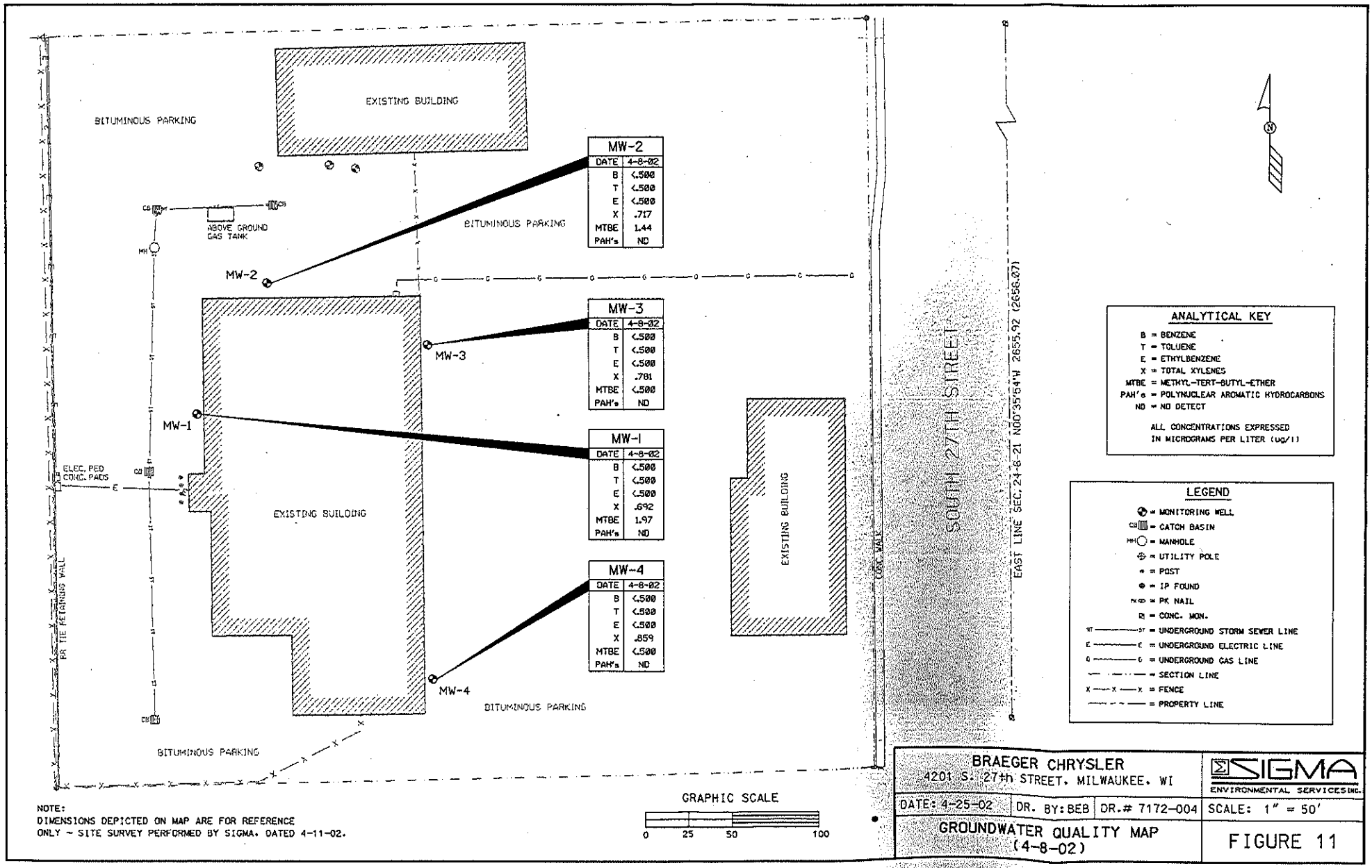
NOTE:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY - SITE SURVEY PERFORMED BY SIGMA. DATED 4-11-02.

BRAEGER CHRYSLER 4201 S. 27th STREET. MILWAUKEE. WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 4-25-02	DR. BY: BEB	DR.# 7172-002	SCALE: 1" = 50'
GROUNDWATER CONTOUR MAP (4-8-02)			FIGURE 9



NOTE:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY – SITE SURVEY PERFORMED BY SIGMA. DATED 4-11-02.

BRAEGER CHRYSLER 4201 S. 27th STREET. MILWAUKEE. WI			SIGMA ENVIRONMENTAL SERVICES INC.
DATE: 4-25-02	DR. BY: BEB	DR.# 7172-003	SCALE: 1" = 50'
GROUNDWATER CONTOUR MAP (4-23-02)			FIGURE 10



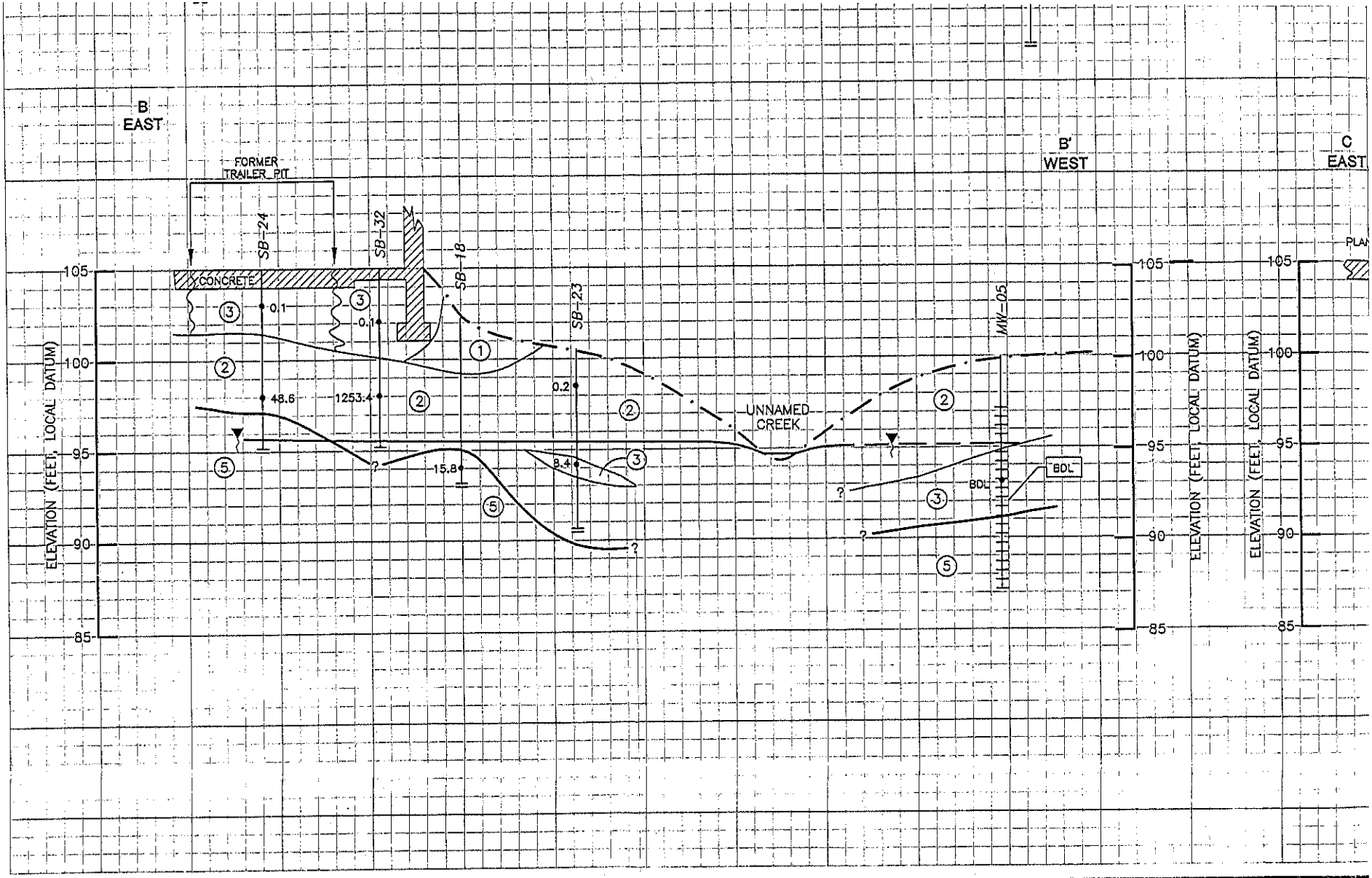
MW-2	
DATE	4-8-02
B	<.500
T	<.500
E	<.500
X	.717
MTBE	1.44
PAH's	ND

MW-3	
DATE	4-8-02
B	<.500
T	<.500
E	<.500
X	.781
MTBE	<.500
PAH's	ND

MW-1	
DATE	4-8-02
B	<.500
T	<.500
E	<.500
X	.692
MTBE	1.97
PAH's	ND

MW-4	
DATE	4-8-02
B	<.500
T	<.500
E	<.500
X	.859
MTBE	<.500
PAH's	ND

NOTE:
DIMENSIONS DEPICTED ON MAP ARE FOR REFERENCE ONLY ~ SITE SURVEY PERFORMED BY SIGMA, DATED 4-11-02.



PLOT DATA
Drawing Name: J:\04737\06\47370607.dwg
Operator Name: WOD
Scale: 1"=20'
Dwg Size: 181187 Bytes
Plot Date: Friday, June 12, 1998
Plot Time: 08:10:47:69 AM
Attached Xref's: No xref's Attached.

Soil Quality Results
ENECO TECH
Investigation - February 2001
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Boring ID		PH-1	PH-2	PH-3	PH-4	PH-5	PH-6	PH-7	NR 720 Soil	COMM 46 Table 1	COMM 46 Table 2
Depth (feet bgs)	Units	6-7	1-2	1-2	8-10	8-10	0-4	8-10	Cleanup Levels		
DRO	mg/kg	8.5	**4000**	**2000**	ND	6.7	36	ND	100	**	**
GRO	mg/kg	ND	3.2	**980**	ND	ND	17	ND	100	**	**
Volatile Organic Compounds											
Benzene	µg/kg	ND	NA	**200**	NA	NA	NA	NA	5.5	8500	1100
s-Butylbenzene	µg/kg	ND	NA	2900	NA	NA	NA	NA	**	**	**
n-Butylbenzene	µg/kg	ND	NA	5400	NA	NA	NA	NA	**	**	**
Cholorobenzene	µg/kg	ND	NA	7400	NA	NA	NA	NA	**	**	**
1,4-Dichlorobenzene	µg/kg	ND	NA	3100	NA	NA	NA	NA	**	**	**
cis-1,2-Dichloroethene	µg/kg	ND	NA	ND	NA	NA	NA	NA	**	**	**
Ethylbenzene	µg/kg	ND	NA	**2900**	NA	NA	NA	NA	2900	4600	**
Isopropylbenzene	µg/kg	ND	NA	2700	NA	NA	NA	NA	**	**	**
p-Isopropyltoluene	µg/kg	ND	NA	ND	NA	NA	NA	NA	**	**	**
Methylene Chloride	µg/kg	ND	NA	ND	NA	NA	NA	NA	**	**	**
Naphthalene	µg/kg	ND	NA	**5900**	NA	NA	NA	NA	**	2700	**
n-Propylbenzene	µg/kg	ND	NA	9100	NA	NA	NA	NA	**	**	**
Toluene	µg/kg	ND	NA	ND	NA	NA	NA	NA	1500	38000	**
1,2,4-Trimethylbenzene	µg/kg	ND	NA	730	NA	NA	NA	NA	**	83000	**
1,3,5-Trimethylbenzene	µg/kg	ND	NA	200	NA	NA	NA	NA	**	11000	**
Total Xylenes	µg/kg	ND	NA	ND	NA	NA	NA	NA	4100	42000	**

Key:

Soil samples collected by EnecoTech on 02/22/2001.

DRO	Diesel Range Organics
GRO	Gasoline Range Organics
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
NA	Not Analyzed
ND	Analyte Not Detected
**	No standard established
BOLD	Analyte detected above NR 720 Soil cleanup Guidelines or Residual Contaminant Levels or COMM 46 Table 1 or Table 2 values.

Table 1
Soil Quality Results
ENECO TECH
Investigation - February 2001
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Boring ID		PH-8	PH-9	PH-10	PH-11	PH-12	PH-13	PH-14	NR 720 Soil	COMM 46 Table 1	COMM 46 Table 2
Depth (feet bgs)	Units	8-10	8-10	1-3	8-10	8-10	8-10	8-10	Cleanup Levels		
DRO	mg/kg	99	10	**770**	8.9	12	15	ND	100	**	**
GRO	mg/kg	3.4	ND	14	ND	ND	ND	ND	100	**	**
PVOCs/Detected VOCs											
Benzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	5.5	8500	1100
s-Butylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
n-Butylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
Cholorobenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
1,4-Dichlorobenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
cis-1,2-Dichloroethene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
Ethylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	2900	4600	**
Isopropylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
p-Isopropyltoluene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
Methylene Chloride	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
Naphthalene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	2700	**
n-Propylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	**	**
Toluene	µg/kg	NA	NA	NA	NA	NA	NA	NA	1500	38000	**
1,2,4-Trimethylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	83000	**
1,3,5-Trimethylbenzene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	11000	**
Total Xylenes	µg/kg	NA	NA	NA	NA	NA	NA	NA	4100	42000	**

Key:

Soil samples collected by EnecoTech on 02/22/2001.

DRO	Diesel Range Organics
GRO	Gasoline Range Organics
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
NA	Not Analyzed
ND	Analyte Not Detected
**	No standard established
BOLD	Analyte detected above NR 720 Soil cleanup Guidelines or Residual Contaminant Levels or COMM 46 Table 1 or Table 2 values.

Table 1
Soil Quality Results
ENECO TECH
Investigation - February 2001
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Boring ID		PH-15	PH-16	PH-17	PH-18	PH-19	PH-20	NR 720 Soil	COMM 46 Table 1	COMM 46 Table 2
Depth (feet bgs)	Units	3-4	7-8	8-10	0-2	8-10	8-10	Cleanup Levels		
DRO	mg/kg	**440**	13	ND	**830**	ND	ND	100	**	**
GRO	mg/kg	ND	**110**	ND	**600**	ND	ND	100	**	**
PVOCs/Detected VOCs										
Benzene	µg/kg	NA	NA	NA	ND	ND	ND	5.5	8500	1100
s-Butylbenzene	µg/kg	NA	NA	NA	1300	ND	ND	**	**	**
n-Butylbenzene	µg/kg	NA	NA	NA	ND	ND	ND	**	**	**
Cholorobenzene	µg/kg	NA	NA	NA	ND	ND	ND	**	**	**
1,4-Dichlorobenzene	µg/kg	NA	NA	NA	ND	ND	ND	**	**	**
cis-1,2-Dichloroethene	µg/kg	NA	NA	NA	61	ND	ND	**	**	**
Ethylbenzene	µg/kg	NA	NA	NA	690	ND	ND	2900	4600	**
Isopropylbenzene	µg/kg	NA	NA	NA	280	ND	ND	**	**	**
p-Isopropyltoluene	µg/kg	NA	NA	NA	6800	ND	ND	**	**	**
Methylene Chloride	µg/kg	NA	NA	NA	ND	ND	37	**	**	**
Naphthalene	µg/kg	NA	NA	NA	**4000**	ND	ND	**	2700	**
n-Propylbenzene	µg/kg	NA	NA	NA	1000	ND	ND	**	**	**
Toluene	µg/kg	NA	NA	NA	100	ND	ND	1500	38000	**
1,2,4-Trimethylbenzene	µg/kg	NA	NA	NA	11000	ND	ND	**	83000	**
1,3,5-Trimethylbenzene	µg/kg	NA	NA	NA	3400	ND	ND	**	11000	**
Total Xylenes	µg/kg	NA	NA	NA	3200	ND	ND	4100	42000	**

Key: Soil samples collected by EnecoTech on 02/22/2001.

DRO	Diesel Range Organics
GRO	Gasoline Range Organics
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
NA	Not Analyzed
ND	Analyte Not Detected
**	No standard established
BOLD	Analyte detected above NR 720 Soil cleanup Guidelines or Residual Contaminant Levels or COMM 46 Table 1 or Table 2 values.

Table 2
Groundwater Sample Results
ENECO TECH
Investigation - February 2001
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Parameter	Units	PH-1	PH-2	PH-6	PH-10	NR 140 ES	NR 140 PAL
DRO	µg/l	3100	NA	6200	140000	**	**
GRO	µg/l	ND	150	58	ND	**	**
Volatile Organic Compounds							
cis-1,2-Dichloroethene	µg/l	0.63	NA	NA	NA	**	**
1,1-Dichloroethane	µg/l	0.21	NA	NA	NA	**	**
Toluene	µg/l	0.63	NA	NA	NA	1000	200
Total Xylenes	µg/l	0.55	NA	NA	NA	10000	1000
Polynuclear Aromatic Hydrocarbons							
Nitrobenzene	µg/l	103	NA	88	NA	**	**
Terphenyl	µg/l	107	NA	111	NA	**	**
2-Fluorobiphenyl	µg/l	82	NA	76	NA	**	**
Benzo (a) Pyrene	µg/l	**0.26**	NA	**2.7**	NA	0.2	0.02
Benzo (ghi) Perylene	µg/l	0.18	NA	2.0	NA	**	**
Indeno (1,2,3-cd) Pyrene	µg/l	ND	NA	0.79	NA	**	**
Chrysene	µg/l	**0.19**	NA	**2.0**	NA	0.2	0.02
2-Methyl Naphthalene	µg/l	0.29	NA	1.3	NA	**	**
1-Methyl Naphthalene	µg/l	0.19	NA	ND	NA	**	**
Naphthalene	µg/l	0.33	NA	1.7	NA	40	8
Phenanthrene	µg/l	0.31	NA	ND	NA	**	**
Pyrene	µg/l	0.37	NA	0.92	NA	250	50

KEY: Groundwater samples collected by EnecoTech on 02/22/2001.

µg/l	micrograms per liter
DRO	Diesel Range Organics
GRO	Gasoline Range Organics
ES	Chapter NR 140 Groundwater Quality Enforcement Standard
PAL	Chapter NR 140 Preventive Action Limit
NA	Not Analyzed
ND	Analyte Not Detected
**	No Standard Established
BOLD	= Analyte detected above NR 140 ES
BOLD	= Analyte detected above NR 140 PAL

Fig.

Table 3
Soil Quality Results
BODY SHOP
Soil Excavation Confirmation Samples
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Boring ID		Base Sample East Floor	Base Sample West Floor	Base Sample East Floor	Base Sample North Wall	Base Sample East Wall	Base Sample South Wall	Base Sample West Wall	NR 720 Soil Cleanup Levels	Direct Contact Pathway		Groundwater Pathway
										Non-Industrial	Industrial	
Depth (feet bgs)		8'	8'	8'	4'	4'	4'	4'				
Date	Units	04/20/01	04/20/01	05/04/01	05/04/01	05/04/01	05/04/01	05/4/01				
DRO	mg/kg	**260**	**630**	NA	15	**530**	24	<6.2	100	**	**	**
Polynuclear Aromatic Hydrocarbons												
Acenaphthene	µg/kg	<16	NA	<63	120	<110	<64	<79	**	900,000	60,000,000	38,000
Acenaphthylene	µg/kg	<22	NA	<110	<100	<189	<110	<136	**	18,000	360,000	700
Anthracene	µg/kg	<13	NA	<6.3	193	<11	15	<7.9	**	5,000,000	300,000,000	3,000,000
Benzo (a) Anthracene	µg/kg	<16	NA	<6.3	**447**	<11	43	<7.9	**	88	3,900	17,000
Benzo (a) Pyrene	µg/kg	<19	NA	<6.3	**326**	<11	**33**	<7.9	**	8.8	390	48,000
Benzo (b) Fluoranthene	µg/kg	<15	NA	<6.3	**121**	<11	13	<7.9	**	88	3,900	360,000
Benzo (ghi) Perylene	µg/kg	<20	NA	<6.3	363	<11	37	<7.9	**	1,800	39,000	6,800,000
Benzo (k) Fluoranthene	µg/kg	<15	NA	<6.3	278	<11	29	<7.9	**	880	39,000	870,000
Chrysene	µg/kg	<16	NA	<6.3	351	<11	38	<7.9	**	8,800	390,000	37,000
Dibenzo (a,h) Anthracene	µg/kg	<19	NA	<9.5	**37**	<18	<9.6	<12	**	8.8	390	38,000
Fluoranthene	µg/kg	<18	NA	<13	1120	<23	100	<16	**	600,000	40,000,000	500,000
Fluorene	µg/kg	<12	NA	<13	42	<23	<13	<16	**	600,000	40,000,000	100,000
Indeno (1,2,3-cd) Pyrene	µg/kg	<19	NA	<6.3	**278**	<11	29	<7.9	**	88	3,900	680,000
1-Methyl Naphthelene	µg/kg	<16	NA	<38	<36	<68	<38	<47	**	1,100,000	70,000,000	23,000
2-Methyl Naphthelene	µg/kg	<15	NA	<32	<30	<57	<32	<40	**	600,000	40,000,000	20,000
Naphthalene	µg/kg	<16	NA	<38	<36	<68	<38	<47	**	20,000	110,000	400
Phenanthrene	µg/kg	<16	NA	<6.3	544	<11	41	<7.9	**	18,000	390,000	1,800
Pyrene	µg/kg	<15	NA	<6.3	943	<11	88	<7.9	**	500,000	30,000,000	8,700,000

Key:

DRO	Diesel Range Organics
mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
NA	Not Analyzed
**	No standard established
BOLD	Analyte detected above NR 720 Soil Cleanup Guidelines, WDNR Interim Guidelines for Direct Contact at a Residential Property, Direct Contact at an Industrial Property or Groundwater Migraiton Pathway

Soil samples collected by Arcadis Geharety & Miller and STS personnel

Table 4
Soil Quality Results
SERVICE AREA
Soil Excavation Confirmation Samples
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Fig H

Boring ID		Sewer Line Gravel @ 3'	Sewer Confirmation	Sewer Line Clay @ 4'	Hoist #1 Floor @ 7'	Hoist #2 SW Fill	Hoist #2 East Wall @ 6'	Hoist #2 Floor @ 8'	Hoist #3 West Floor @ 10'	Ch. NR 720	COMM 46 Table 1	COMM 46 Table 2
Date	Units	04/17/01	04/17/01	04/17/01	04/17/01	04/20/01	04/16/01	04/16/01	04/18/01			
Analyte												
DRO	mg/kg	**10000**	NA	9	11	11	4.1	<4.0	6.8	100	**	**
GRO	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	100	**	**
TOC as NPOC	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**
Volatile Organic Compounds												
s-Butylbenzene	µg/kg	NA	<25	NA	NA	NA	NA	NA	NA	**	**	**
2-Chlorotoluene	µg/kg	NA	<25	NA	NA	NA	NA	NA	NA	**	**	**
1,4-Dichlorobenzene	µg/kg	NA	<25	NA	NA	NA	NA	NA	NA	**	**	**
Methylene Chloride	µg/kg	NA	<25	NA	NA	NA	NA	NA	NA	**	**	**
p-Isopropyltoluene	µg/kg	NA	<25	NA	NA	NA	NA	NA	NA	**	**	**
Toluene	µg/kg	NA	<25	NA	NA	NA	NA	NA	NA	1,500	38,000	**
Polynuclear Aromatic Hydrocarbons										Groundwater Pathway	Direct Contact Pathway: Non-Industrial	Direct Contact Pathway: Industrial
Acenaphthene	µg/kg	NA	<17	NA	NA	NA	NA	NA	NA	38,000	900,000	60,000,000
Acenaphthylene	µg/kg	NA	<23	NA	NA	NA	NA	NA	NA	700	18,000	360,000
Anthracene	µg/kg	NA	<13	NA	NA	NA	NA	NA	NA	3,000,000	5,000,000	300,000,000
Benzo (a) Anthracene	µg/kg	NA	<17	NA	NA	NA	NA	NA	NA	17,000	88	3,900
Benzo (a) Pyrene	µg/kg	NA	<19	NA	NA	NA	NA	NA	NA	48,000	8.8	390
Benzo (b) Fluoranthene	µg/kg	NA	<16	NA	NA	NA	NA	NA	NA	360,000	88	3,900
Benzo (ghi) Perylene	µg/kg	NA	<21	NA	NA	NA	NA	NA	NA	6,800,000	1,800	39,000
Benzo (k) Fluoranthene	µg/kg	NA	<16	NA	NA	NA	NA	NA	NA	870,000	880	39,000
Chrysene	µg/kg	NA	<17	NA	NA	NA	NA	NA	NA	37,000	8,800	390,000
Dibenzo (a,h) Anthracene	µg/kg	NA	<19	NA	NA	NA	NA	NA	NA	38,000	8.8	390
Fluoranthene	µg/kg	NA	<18	NA	NA	NA	NA	NA	NA	500,000	600,000	40,000,000
Fluorene	µg/kg	NA	<12	NA	NA	NA	NA	NA	NA	100,000	600,000	40,000,000
Indeno (1,2,3-cd) Pyrene	µg/kg	NA	<19	NA	NA	NA	NA	NA	NA	680,000	88	3,900
1-Methyl Naphthelene	µg/kg	NA	<17	NA	NA	NA	NA	NA	NA	23,000	1,100,000	70,000,000
2-Methyl Naphthelene	µg/kg	NA	<16	NA	NA	NA	NA	NA	NA	20,000	600,000	40,000,000
Naphthalene	µg/kg	NA	<17	NA	NA	NA	NA	NA	NA	400	20,000	110,000
Phenanthrene	µg/kg	NA	<17	NA	NA	NA	NA	NA	NA	1,800	18,000	390,000
Pyrene	µg/kg	NA	<16	NA	NA	NA	NA	NA	NA	8,700,000	500,000	30,000,000

Key:

mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
DRO	Diesel Range Organics
GRO	Gasoline Range Organics
NA	Not Analyzed
**	No standard established
BOLD	Analyte detected above NR 720 Soil Cleanup Guidelines, WDNR Interim Guidelines for Direct Contact at a Residential Property, Direct Contact at an Industrial Property or Groundwater Migraiton Pathway
L	Common lab solvent and contaminant
Q	Analyte has been detected between the limit of detection (LOD) and limit of quantification (LOQ).

Samples collected by Arcadis Geharety and Miller and STS.

Fig 5

Table 4
Soil Quality Results
SERVICE AREA
Service Area Soil Excavation Confirmation Samples
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Boring ID		Hoist #3 East Floor @ 10'	Hoist #4 Floor @ 9'	Hoist #5 Floor	Hoist #6 Floor	Hoist #7 Floor	Hoist #8 Floor @ 6'	Hoists #8 & #9 West Wall @ 3'	Hoists #8 & #9 Fill	Ch. NR 720	COMM 46 Table 1	COMM 46 Table 2
Date	Units	04/18/01		04/20/01	04/20/01	04/19/01	04/13/01	04/17/01	04/18/01			
Analyte												
DRO	mg/kg	13	38	4.4	**110**	5.1	4.1	24	**1700**	100	**	**
GRO	mg/kg	NA	NA	<12	22	NA	NA	NA	NA	100	**	**
TOC as NPOC	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**
Volatile Organic Compounds												
s-Butylbenzene	µg/kg	<25	NA	NA	NA	NA	NA	NA	NA	**	**	**
2-Chlorotoluene	µg/kg	<25	NA	NA	NA	NA	NA	NA	NA	**	**	**
1,4-Dichlorobenzene	µg/kg	<25	NA	NA	NA	NA	NA	NA	NA	**	**	**
Methylene Chloride	µg/kg	<25	NA	NA	NA	NA	NA	NA	NA	**	**	**
p-Isopropyltoluene	µg/kg	<25	NA	NA	NA	NA	NA	NA	NA	**	**	**
Toluene	µg/kg	<25	NA	NA	NA	NA	NA	NA	NA	1,500	38,000	**
Polynuclear Aromatic Hydrocarbons										Groundwater Pathway	Direct Contact Pathway	
											Non-Industrial	Industrial
Acenaphthene	µg/kg	<17	<60	NA	NA	NA	NA	NA	NA	38,000	900,000	60,000,000
Acenaphthylene	µg/kg	<23	<100	NA	NA	NA	NA	NA	NA	700	18,000	360,000
Anthracene	µg/kg	<13	<6.0	NA	NA	NA	NA	NA	NA	3,000,000	5,000,000	300,000,000
Benzo (a) Anthracene	µg/kg	<17	<6.0	NA	NA	NA	NA	NA	NA	17,000	88	3,900
Benzo (a) Pyrene	µg/kg	<19	<6.0	NA	NA	NA	NA	NA	NA	48,000	8.8	390
Benzo (b) Fluoranthene	µg/kg	<15	<6.0	NA	NA	NA	NA	NA	NA	360,000	88	3,900
Benzo (ghi) Perylene	µg/kg	<20	<6.0	NA	NA	NA	NA	NA	NA	6,800,000	1,800	39,000
Benzo (k) Fluoranthene	µg/kg	<15	<6.0	NA	NA	NA	NA	NA	NA	870,000	880	39,000
Chrysene	µg/kg	<17	<6.0	NA	NA	NA	NA	NA	NA	37,000	8,800	390,000
Dibenzo (a,h) Anthracene	µg/kg	<19	<9.0	NA	NA	NA	NA	NA	NA	38,000	8.8	390
Fluoranthene	µg/kg	<18	<12	NA	NA	NA	NA	NA	NA	500,000	600,000	40,000,000
Fluorene	µg/kg	<12	<12	NA	NA	NA	NA	NA	NA	100,000	600,000	40,000,000
Indeno (1,2,3-cd) Pyrene	µg/kg	<19	<6.0	NA	NA	NA	NA	NA	NA	680,000	88	3,900
1-Methyl Naphthelene	µg/kg	<17	<36	NA	NA	NA	NA	NA	NA	23,000	1,100,000	70,000,000
2-Methyl Naphthelene	µg/kg	<15	<30	NA	NA	NA	NA	NA	NA	20,000	600,000	40,000,000
Naphthalene	µg/kg	<17	<36	NA	NA	NA	NA	NA	NA	400	20,000	110,000
Phenanthrene	µg/kg	<17	<6.0	NA	NA	NA	NA	NA	NA	1,800	18,000	390,000
Pyrene	µg/kg	<15	<6.0	NA	NA	NA	NA	NA	NA	8,700,000	500,000	30,000,000

Key:
- mg/kg milligrams per kilogram
- µg/kg micrograms per kilogram
- DRO Diesel Range Organics
- GRO Gasoline Range Organics
- NA Not Analyzed
- ** No standard established
- BOLD Analyte detected above NR 720 Soil Cleanup Guidelines, WDNR Interim Guidelines for Direct Contact at a Residential Property, Direct Contact at an Industrial Property or Groundwater Migraiton Pathway
- L Common lab solvent and contaminant
- Q Analyte has been detected between the limit of detection (LOD) and limit of quantification (LOQ).

Samples collected by Arcadis Geharety and Miller and STS.

Table 4
Soil Quality Results
SERVICE AREA
Service Area Soil Excavation Confirmation Samples
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Fig 5

Boring ID		Hoist #9 Floor @ 6'	Hoist #10 East Floor	Hoist #11 Floor	Hoist #12 Floor	Hoist #13 Floor	Hoists #8 & #9 West Gravel	Hoist #3 North Wall	Hoist #3 East Gravel	Ch. NR 720	COMM 46 Table 1	COMM 46 Table 2
Date	Units	04/18/01	04/18/01	04/19/01	04/19/01	04/19/01	04/27/01	04/18/01	04/27/01			
Analyte												
DRO	mg/kg	9.7	<3.8	4.8	<3.9	<3.8	**9930**	**8700**	**14700**	100	**	**
GRO	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	100	**	**
TOC as NPOC	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	**	**	**
Volatile Organic Compounds												
s-Butylbenzene	µg/kg	NA	NA	NA	<25	NA	<26	<25	<26	**	**	**
2-Chlorotoluene	µg/kg	NA	NA	NA	<25	NA	<26	<25	<26	**	**	**
1,4-Dichlorobenzene	µg/kg	NA	NA	NA	<25	NA	<26	<25	<26	**	**	**
Methylene Chloride	µg/kg	NA	NA	NA	<25	NA	59L	<25	<26	**	**	**
p-Isopropyltoluene	µg/kg	NA	NA	NA	<25	NA	<26	<25	<26	**	**	**
Toluene	µg/kg	NA	NA	NA	<25	NA	56	<25	<26	1,500	38,000	**
Polynuclear Aromatic Hydrocarbons										Groundwater Pathway	Direct Contact Pathway: Non-Industrial	Direct Contact Pathway: Industrial
Acenaphthene	µg/kg	NA	NA	NA	<17	NA	<520	<17	<520	38,000	900,000	60,000,000
Acenaphthylene	µg/kg	NA	NA	NA	<23	NA	<890	<23	<890	700	18,000	360,000
Anthracene	µg/kg	NA	NA	NA	<13	NA	<52	<13	<52	3,000,000	5,000,000	300,000,000
Benzo (a) Anthracene	µg/kg	NA	NA	NA	<17	NA	<52	63	<52	17,000	88	3,900
Benzo (a) Pyrene	µg/kg	NA	NA	NA	<19	NA	<52	**52Q**	<52	48,000	8.8	390
Benzo (b) Fluoranthene	µg/kg	NA	NA	NA	<16	NA	<52	72	<52	360,000	88	3,900
Benzo (ghi) Perylene	µg/kg	NA	NA	NA	<21	NA	<52	<21	<52	6,800,000	1,800	39,000
Benzo (k) Fluoranthene	µg/kg	NA	NA	NA	<16	NA	<52	56	<52	870,000	880	39,000
Chrysene	µg/kg	NA	NA	NA	<17	NA	<52	44Q	<52	37,000	8,800	390,000
Dibenzo (a,h) Anthracene	µg/kg	NA	NA	NA	<19	NA	<78	<20	<78	38,000	8.8	390
Fluoranthene	µg/kg	NA	NA	NA	<18	NA	<100	97	<100	500,000	600,000	40,000,000
Fluorene	µg/kg	NA	NA	NA	<12	NA	<100	17Q	<100	100,000	600,000	40,000,000
Indeno (1,2,3-cd) Pyrene	µg/kg	NA	NA	NA	<19	NA	<52	<20	<52	680,000	88	3,900
1-Methyl Naphthelene	µg/kg	NA	NA	NA	<17	NA	<310	<17	<310	23,000	1,100,000	70,000,000
2-Methyl Naphthelene	µg/kg	NA	NA	NA	<16	NA	<260	<16	<260	20,000	600,000	40,000,000
Naphthalene	µg/kg	NA	NA	NA	<17	NA	<310	<17	<310	400	20,000	110,000
Phenanthrene	µg/kg	NA	NA	NA	<17	NA	<52	20Q	<52	1,800	18,000	390,000
Pyrene	µg/kg	NA	NA	NA	<16	NA	<52	64	<52	8,700,000	500,000	30,000,000

Key:
- mg/kg — milligrams per kilogram
- µg/kg — micrograms per kilogram
- DRO — Diesel Range Organics
- GRO — Gasoline Range Organics
- NA — Not Analyzed
- ** — No standard established
- BOLD — Analyte detected above NR 720 Soil Cleanup Guidelines, WDNR Interim Guidelines for Direct Contact at a Residential Property, Direct Contact at an Industrial Property or Groundwater Migraiton Pathway
- L — Common lab solvent and contaminant
- Q — Analyte has been detected between the limit of detection (LOD) and limit of quantification (LOQ).

Samples collected by Arcadis Geharety and Miller and STS.

Table 4
Soil Quality Results
SERVICE AREA
Service Area Soil Excavation Confirmation Samples
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Fig 6

Boring ID		Hoist #10 West Gravel	Hoist #11 West Gravel	Hoist #4 West Gravel	Ch. NR 720	COMM 46 Table 1	COMM 46 Table 2
Date	Units	04/27/01	04/27/01	05/03/01			
Analyte							
DRO	mg/kg	**5180**	**9980**	**486**	100	**	**
GRO	mg/kg	NA	NA	NA	100	**	**
TOC as NPOC	mg/kg	NA	NA	NA	**	**	**
Volatile Organic Compounds							
s-Butylbenzene	µg/kg	<129	<29	NA	**	**	**
2-Chlorotoluene	µg/kg	<129	39	NA	**	**	**
1,4-Dichlorobenzene	µg/kg	<129	209	NA	**	**	**
Methylene Chloride	µg/kg	690L	72L	NA	**	**	**
p-Isopropyltoluene	µg/kg	<129	32	NA	**	**	**
Toluene	µg/kg	<129	<29	NA	1,500	38,000	**
Polynuclear Aromatic Hydrocarbons					Groundwater Pathway	Direct Contact Pathway: Non-Industrial	Direct Contact Pathway: Industrial
Acenaphthene	µg/kg	<540	<870	<53	38,000	900,000	60,000,000
Acenaphthylene	µg/kg	<920	<1500	<90	700	18,000	360,000
Anthracene	µg/kg	<54	638	<5.3	3,000,000	5,000,000	300,000,000
Benzo (a) Anthracene	µg/kg	<54	**1970**	<5.3	17,000	88	3,900
Benzo (a) Pyrene	µg/kg	<54	<87	<5.3	48,000	8.8	390
Benzo (b) Fluoranthene	µg/kg	<54	<87	<5.3	360,000	88	3,900
Benzo (ghi) Perylene	µg/kg	<54	<87	<5.3	6,800,000	1,800	39,000
Benzo (k) Fluoranthene	µg/kg	<54	<87	<5.3	870,000	880	39,000
Chrysene	µg/kg	<54	429	<5.3	37,000	8,800	390,000
Dibenzo (a,h) Anthracene	µg/kg	<81	<130	<7.9	38,000	8.8	390
Fluoranthene	µg/kg	<110	2440	<11	500,000	600,000	40,000,000
Fluorene	µg/kg	<110	325	<11	100,000	600,000	40,000,000
Indeno (1,2,3-cd) Pyrene	µg/kg	<54	<87	<5.3	680,000	88	3,900
1-Methyl Naphthelene	µg/kg	<320	<520	<32	23,000	1,100,000	70,000,000
2-Methyl Naphthelene	µg/kg	<270	<440	<26	20,000	600,000	40,000,000
Naphthalene	µg/kg	<320	<520	<32	400	20,000	110,000
Phenanthrene	µg/kg	<54	**3940**	<5.3	1,800	18,000	390,000
Pyrene	µg/kg	<54	1970	<5.3	8,700,000	500,000	30,000,000

Key:

mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
DRO	Diesel Range Organics
GRO	Gasoline Range Organics
NA	Not Analyzed
**	No standard established
BOLD	Analyte detected above NR 720 Soil Cleanup Guidelines, WDNR Interim Guidelines for Direct Contact at a Residential Property, Direct Contact at an Industrial Property or Groundwater Migraiton
L	Common lab solvent and contaminant
Q	Analyte has been detected between the limit of detection (LOD) and limit of quantification (LOQ).

Table 5
Soil Quality Results
RECONDITIONING BAY
Soil Excavation Confirmation Samples
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Figure 7

Boring ID		Catch Basin West Wall	Catch Basin Floor	Catch Basin North Wall	Catch Basin South Wall	Catch Basin North East Wall	South East Corner E. Ext	North Wall E. Est. Center	East Wall Ext. Center	AGMMW-4 4.5'-6.5'	NR 720 Soil	COMM 46 Table 1	COMM 46 Table 2
Date	Units	04/25/01	04/25/01	04/25/01	04/25/01	04/25/01	04/26/01	04/26/01	04/26/01	04/12/01	Cleanup Levels		
Analyte													
DRO	mg/kg	11	NA	**1500**	66	15	48	34	92	NA	100	**	**
GRO	mg/kg	<11	NA	**200**	<11	<11	<12	<11	<12	NA	100	**	**
TOC as NPOC	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	20,000	**	**	**
Volatile Organic Compounds													
Ethylbenzene	µg/kg	<25	<25	700	<25	<25	<25	32Q	<25	<25	2,900	4,600	**
Isopropylbenzene	µg/kg	<25	<25	180	<25	<25	35Q	<25	<25	<25	**	**	**
t-Butylbenzene	µg/kg	<25	<25	43Q	<25	<25	<25	<25	<25	<25	**	**	**
n-Propylbenzene	µg/kg	<25	<25	580	<25	<25	<25	<25	<25	<25	**	**	**
Naphthalene	µg/kg	180	<25	470	110	65Q	46Q	36Q	<25	<25	**	2,700	**
p-isopropyltoluene	µg/kg	<25	<25	700	<25	<25	<25	<25	<25	<25	**	**	**
sec-Butylbenzene	µg/kg	<25	<25	550	<25	<25	<25	<25	<25	<25	**	**	**
1,2,4-Trimethylbenzene	µg/kg	<25	<25	4700	<25	<25	290	<25	<25	<25	**	83,000	**
1,3,5-Trimethylbenzene	µg/kg	<25	<25	1600	<25	<25	64Q	<25	<25	<25	**	11,000	**
Vinyl Chloride	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Total Xylenes	µg/kg	<75	<75	3250	<75	<75	150	70Q	<75	<75	4,100	42,000	**
											Groundwater Pathway	Direct Contact Pathway Non-Industrial	Direct Contact Pathway Industrial
Polynuclear Aromatic Hydrocarbons													
Acenaphthene	µg/kg	760	NA	470	250	720	50Q	710	290	22Q	38,000	900,000	60,000,000
Acenaphthylene	µg/kg	<110	NA	77	340Q	<220	<23	110	<23	<22	700	18,000	360,000
Anthracene	µg/kg	1500	NA	730	1800	2800	68	580	390	36Q	3,000,000	5,000,000	300,000,000
Benzo (a) Anthracene	µg/kg	**1600**	NA	**1400**	**2500**	**4000**	**270**	**1000**	**450**	**150**	17,000	88	3,900
Benzo (a) Pyrene	µg/kg	**1200**	NA	**1300**	**2100**	**3100**	**310**	**1100**	**440**	**150**	48,000	8.8	390
Benzo (b) Fluoranthene	µg/kg	**1400**	NA	**1400**	**2400**	**3800**	**260**	**900**	**340**	**180**	360,000	88	3,900
Benzo (ghi) Perylene	µg/kg	400	NA	430	660	860	170	540	240	97	6,800,000	1,800	39,000
Benzo (k) Fluoranthene	µg/kg	**1000**	NA	**1100**	**1900**	**2400**	260	**970**	380	120	870,000	880	39,000
Chrysene	µg/kg	1400	NA	1200	2200	3500	290	1100	420	140	37,000	8,800	390,000
Dibenzo (a,h) Anthracene	µg/kg	**170Q**	NA	**170**	**300**	**490Q**	**71**	**230**	**98**	**36Q**	38,000	8.8	390
Fluoranthene	µg/kg	3400	NA	2300	4200	7300	390	1900	940	270	500,000	600,000	40,000,000
Fluorene	µg/kg	640	NA	450	240	840	36Q	720	400	25Q	100,000	600,000	40,000,000
Indeno (1,2,3-cd) Pyrene	µg/kg	**430**	NA	**460**	**750**	**920**	**230**	**760**	**330**	**94**	680,000	88	3,900
1-Methyl Naphthelene	µg/kg	130Q	NA	270	120Q	<160	21Q	260	64	<16	23,000	1,100,000	70,000,000
2-Methyl Naphthelene	µg/kg	<75	NA	400	<74	<150	17Q	110	81	19Q	20,000	600,000	40,000,000
Naphthalene	µg/kg	80Q	NA	790	120Q	<160	29Q	110	39Q	<16	400	20,000	110,000
Phenanthrene	µg/kg	**3900**	NA	**1800**	**2100**	**6000**	200	1600	1400	170	1,800	18,000	390,000
Pyrene	µg/kg	3700	NA	2700	4300	7900	380	1800	870	220	8,700,000	500,000	30,000,000

Key:
- mg/kg milligrams per kilogram
- µg/kg micrograms per kilogram
- DRO Diesel Range Organics
- GRO Gasoline Range Organics
- NA Not Analyzed
- ** No standard established
- **BOLD** Analyte detected above NR 720 Soil Cleanup Guidelines, WDNR Interim Guidelines for Direct Contact at a Residential Property, Direct Contact at an Industrial Property or Groundwater Migraiton Pathway
- Q Analyte has been detected between the limit of detection (LOD) and limit of quantification (LOQ).

Samples collected by Arcadis Geharety and Miller and STS

Table 6
Soil Quality Results
STS
Subsurface Geoprobe Investigation
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Figure 5 + 7

Boring ID		GP-1	GP-2	GP-3	G-4	GP-5	GP-6	GP-7	GP-8	NR 720 Soil	COMM 46 Table 1	COMM 46 Table 2
Depth (feet bgs)		4-6	2-4	2-4	2-4	2-4	4-6	2-4	4-6			
Date	Units	05/10/01	05/10/01	05/10/01	05/10/01	05/10/01	05/10/01	05/10/01	05/19/01	Cleanup Levels		
Analyte												
DRO	mg/kg	71	34	59	18	<6.4	<5.9	<6.0	NA	100	**	**
Volatile Organic Compounds												
Benzene	µg/kg	<26	<29	<29	<27	NA	<30	NA	<27	5.5	8500	1100
Naphthalene	µg/kg	60	89	<29	58	NA	32	NA	NA	**	2,700	**
Polynuclear Aromatic Hydrocarbons										Groundwater Pathway	Direct Contact Pathway Non-Industrial	Direct Contact Pathway Industrial
Acenaphthene	µg/kg	539	<584	592	<5480	<64	<59	<60	<540	38,000	900,000	60,000,000
Acenaphthylene	µg/kg	<898	<993	<99	<9310	<110	<100	<100	<910	700	18,000	360,000
Anthracene	µg/kg	676	222	256	6900	8.5	24	74	226	3,000,000	5,000,000	300,000,000
Benzo (a) Anthracene	µg/kg	**1160**	**386**	**430**	**12000**	23	58	**193**	**483**	17,000	88	3,900
Benzo (a) Pyrene	µg/kg	**1060**	**374**	**418**	**10800**	**26**	**80**	**218**	**419**	48,000	8.8	390
Benzo (b) Fluoranthene	µg/kg	**739**	**269**	**302**	**7670**	20	58	**193**	**215**	360,000	88	3,900
Benzo (ghi) Perylene	µg/kg	1160	315	395	**7450**	34	82	181	623	6,800,000	1,800	39,000
Benzo (k) Fluoranthene	µg/kg	317	129	139	**3830**	9.2	27	75	140	870,000	880	39,000
Chrysene	µg/kg	950	315	348	**10100**	20	51	157	397	37,000	8,800	390,000
Dibenzo (a,h) Anthracene	µg/kg	**137**	<88	**43**	**1420**	<9.6	<8.9	**24**	<81	38,000	8.8	390
Fluoranthene	µg/kg	2110	958	1130	31800	57	119	532	1070	500,000	600,000	40,000,000
Fluorene	µg/kg	348	<117	151	3180	<13	<12	34	408	100,000	600,000	40,000,000
Indeno (1,2,3-cd) Pyrene	µg/kg	**813**	**269**	**337**	**7560**	23	70	**169**	**247**	680,000	88	3,900
1-Methyl Naphthelene	µg/kg	<317	<350	100	<3290	<38	<36	<36	<320	23,000	1,100,000	70,000,000
2-Methyl Naphthelene	µg/kg	<264	<292	<29	<2740	<32	<30	<30	2150	20,000	600,000	40,000,000
Naphthalene	µg/kg	<317	<350	<35	<3290	<38	<36	<36	**623**	400	20,000	110,000
Phenanthrene	µg/kg	**1900**	491	836	**18600**	28	50	390	773	1,800	18,000	390,000
Pyrene	µg/kg	2220	783	929	24100	51	96	351	956	8,700,000	500,000	30,000,000

Key:

mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
DRO	Diesel Range Organics
NA	Not Analyzed
ND	Analyte Not Detected
**	No standard established
BOLD	Analyte detected above NR 720 Soil Cleanup Guidelines, WDNR Interim Guidelines for Direct Contact at a Residential Property, Direct Contact at an Industrial Property or Groundwater Migraiton Pathway

Figure 5+7

Table 6
Soil Quality Results
STS
STS Subsurface Geoprobe Investigation
Braeger Chrysler (former Arrow Oldsmobile)
4201 South 27th Street
Greenfield, Wisconsin

Boring ID		GP-9	GP-10	GP-11	GP-12	GP-13	GP-14	GP-15	NR 720 Soil Cleanup Levels	COMM 46 Table 1	COMM 46 Table 2
Depth (feet bgs)		4-6	4-6	0-2	2-4	0-2	0-2	4-6			
Date	Units	05/19/01	05/19/01	05/19/01	05/19/01	05/19/01	05/19/01	05/19/01			
Analyte											
DRO	mg/kg	NA	NA	NA	NA	NA	NA	NA	100	**	**
PVOCs/Detected VOCs											
Benzene	µg/kg	<30	<29	**91**	<29	<26	<28	<29	5.5	8500	1100
Naphthalene	µg/kg	NA	NA	NA	NA	NA	NA	NA	**	2,700	**
Polynuclear Aromatic Hydrocarbons									Groundwater Pathway	Direct Contact Pathway Non-Industrial	Direct Contact Pathway Industrial
Acenaphthene	µg/kg	120	71	1180	<590	1050	148	<580	38,000	900,000	60,000,000
Acenaphthylene	µg/kg	<100	<99	<1000	<1000	<900	<97	<990	700	18,000	360,000
Anthracene	µg/kg	144	83	1410	176	1030	170	100	3,000,000	5,000,000	300,000,000
Benzo (a) Anthracene	µg/kg	**192**	**186**	**2940**	**576**	**2430**	**455**	**302**	17,000	88	3,900
Benzo (a) Pyrene	µg/kg	**180**	**186**	**2590**	**600**	**2000**	**420**	**267**	48,000	8.8	390
Benzo (b) Fluoranthene	µg/kg	**120**	**128**	**1410**	**353**	**1270**	**295**	**197**	360,000	88	3,900
Benzo (ghi) Perylene	µg/kg	144	267	**2000**	482	1790	386	569	6,800,000	1,800	39,000
Benzo (k) Fluoranthene	µg/kg	58	59	824	224	696	136	128	870,000	880	39,000
Chrysene	µg/kg	156	151	2470	412	2000	341	244	37,000	8,800	390,000
Dibenzo (a,h) Anthracene	µg/kg	**34**	**20**	**212**	<88	**200**	**43**	<87	38,000	8.8	390
Fluoranthene	µg/kg	528	442	7410	1040	5590	1070	639	500,000	600,000	40,000,000
Fluorene	µg/kg	82	70	671	<120	823	70	<120	100,000	600,000	40,000,000
Indeno (1,2,3-cd) Pyrene	µg/kg	**132**	**151**	**1880**	**506**	**1690**	**341**	**128**	680,000	88	3,900
1-Methyl Naphthelene	µg/kg	<36	<35	<350	<350	<320	70	<350	23,000	1,100,000	70,000,000
2-Methyl Naphthelene	µg/kg	<30	360	3180	<290	3380	489	<290	20,000	600,000	40,000,000
Naphthalene	µg/kg	<36	<35	**706**	<350	**854**	148	<350	400	20,000	110,000
Phenanthrene	µg/kg	276	256	**4590**	553	**3160**	534	232	1,800	18,000	390,000
Pyrene	µg/kg	420	349	7180	882	4540	920	592	8,700,000	500,000	30,000,000

Key:

mg/kg	milligrams per kilogram
µg/kg	micrograms per kilogram
DRO	Diesel Range Organics
NA	Not Analyzed
ND	Analyte Not Detected
**	No standard established
BOLD	Analyte detected above NR 720 Soil Cleanup Guidelines, WDNR Interim Guidelines for Direct Contact at a Residential Property, Direct Contact at an Industrial Property or Groundwater Migraiton Pathway

Table 8
Groundwater Laboratory Analytical Results
Braeger Chrysler - 4201 South 27th Street, Greenfield, WI
Project Reference #7172

VOCs/PVOCs	Units	MW-1		MW-2		MW-3		MW-4		NR 140	NR 140
		04/20/2001	04/08/2002	04/20/2001	04/08/2002	04/20/2001	04/08/2002	04/20/2001	04/08/2002	ES	PAL
Benzene	µg/l	<0.29	<.500	<0.29	<.500	<0.29	<.500	<0.29	<.500	5	0.5
Toluene	µg/l	<0.13	<.500	<0.13	<.500	<0.13	<.500	<0.13	<.500	1000	200
Ethylbenzene	µg/l	<0.57	<.500	<0.57	<.500	<0.57	<.500	<0.57	<.500	700	140
Total Xylenes	µg/l	<0.35	0.692	<0.35	0.717	<0.35	0.781	<0.35	0.859	10000	1000
MTBE	µg/l	1.9	1.97	1.3	1.44	<0.20	<.500	<0.20	<.500	60	12
Methylene Chloride	µg/l	1.1	<0.53	0.99	<0.53	1.1	<0.53	1.6	<0.53	5	0.5
1,2,4-Trimethylbenzene	µg/l	<0.34	<1.00	<0.34	<1.00	<0.34	<1.00	<0.34	<1.00	480	96
1,3,5-Trimethylbenzene	µg/l	<0.29	<1.00	<0.29	<1.00	<0.29	<1.00	<0.29	<1.00	480	96
Polynuclear Aromatic Hydrocarbons											
Acenaphthene	µg/l	<0.027	<5.0	<0.027	<5.0	<0.027	<5.0	<0.027	<5.0	NES	NES
Acenaphthylene	µg/l	<0.032	<5.0	<0.032	<5.0	<0.032	<5.0	<0.032	<5.0	NES	NES
Anthracene	µg/l	<0.027	<5.0	<0.027	<5.0	<0.027	<5.0	<0.027	<5.0	NES	NES
Benzo (a) Anthracene	µg/l	<0.026	<0.100	<0.026	<0.100	0.065	<0.100	0.029	<0.100	NES	NES
Benzo (a) Pyrene	µg/l	<0.014	<0.0200	<0.014	<0.0200	0.039	<0.0200	<0.014	<0.0200	0.2	0.02
Benzo (b) Fluoranthene	µg/l	<0.030	<0.0200	<0.030	<0.0200	0.053	<0.0200	<0.030	<0.0200	0.2	0.02
Benzo (k) Fluoranthene	µg/l	<0.019	<0.100	<0.019	<0.100	0.027	<0.100	<0.019	<0.100	NES	NES
Benzo (ghi) Perylene	µg/l	<0.015	<5.0	<0.015	<5.0	0.021	<5.0	<0.015	<5.0	NES	NES
Chrysene	µg/l	<0.017	<0.0200	<0.017	<0.0200	0.04	<0.0200	0.021	<0.0200	0.2	0.02
Dibenzo (a, h) Anthracene	µg/l	<0.020	<0.100	<0.020	<0.100	<0.020	<0.100	<0.020	<0.100	NES	NES
Fluoranthene	µg/l	<0.021	<5.0	<0.021	<5.0	0.12	<5.0	0.075	<5.0	400	80
Fluorene	µg/l	<0.029	<5.0	<0.029	<5.0	<0.029	<5.0	<0.029	<5.0	400	80
Indeno (1,2,3-cd) Pyrene	µg/l	<0.022	<0.200	<0.022	<0.200	<0.022	<0.200	<0.022	<0.200	NES	NES
1-Methyl Naphthalene	µg/l	<0.030	<5.0	0.13	<5.0	<0.030	<5.0	0.14	<5.0	NES	NES
2-Methyl Naphthalene	µg/l	<0.033	<5.0	<0.033	<5.0	<0.033	<5.0	0.23	<5.0	NES	NES
Naphthalene	µg/l	<0.031	<5.0	<0.031	<5.0	<0.031	<5.0	0.051	<5.0	40	8
Phenanthrene	µg/l	<0.028	<5.0	<0.028	<5.0	0.053	<5.0	0.063	<5.0	NES	NES
Pyrene	µg/l	<0.024	<5.0	<0.024	<5.0	0.076	<5.0	0.048	<5.0	250	50

KEY:
µg/l = micrograms per liter
mg/l = milligrams per liter
MTBE = methyl-tert-butyl-ether
ES = Chapter NR 140 groundwater quality enforcement standard
PAL = Chapter NR 140 preventive action limit
NA = Not Analyzed
NES = no established standard
value = analyte detected above Chapter NR 140 Enforcement Standard