

**LETTER OF TRANSMITTAL**

To: Ms. Linda Michalets  
 Wisconsin Department of Natural Resources  
 2300 N. Dr. Martin Luther King Jr. Drive  
 Milwaukee, WI 53212

From: Stephen Meer, P.E.  
 The Sigma Group, Inc.  
 1300 W. Canal Street  
 Milwaukee, WI 53233

Date: July 9, 2018

Site Name: Former Biogenesis

Address: 610 West Rawson Avenue

Oak Creek, WI

FID# 241020010

BRRTS # 02-41-107191

Please check the type(s) of documents you have enclosed. Submittals will be tracked and filed based on the information you provide. **Include the FID and BRRTS numbers which have been assigned to this site, and identify the intent of the document(s) you are submitting in order to speed processing.** Please attach any required fees to this checklist.

<b>IS THIS RELEASE PECFA-ELIGIBLE?</b>		
<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> UNKNOWN AT THIS TIME

**Type of Submittal:**

LUST     ERP     VPLE     OTHER

CHECK	Agreements	FEE
	Tax assignment agreement - ss.75.106(2)(d) & 292.55	\$700
	Tax cancellation agreement - ss. 75.106(2)(d) & 292.55	\$700
	Negotiated agreements - s. 292.11(7)(d)2	\$1,400
	<b>Technical Assistance (s. 292.55)</b>	<b>FEE</b>
	NR 708 No Further Action Letter	\$350
	NR 716 No Further Investigation	\$700
	NR 716 Site Investigation Workplan	\$700
	NR 716 Site Investigation Report	\$1,050
	NR 720 Soil Cleanup Standards/Reports	\$1,050
	NR 722 Remedial Action Options Report	\$1,050
	NR 724 Remedial Design Report	\$1,050
	NR 724 Operation and Maintenance Report	\$425
	NR 724 Construction Documentation Reports	\$350
	NR 724 Long-Term Monitoring Plan	\$425
	NR 726 Case Closure Action	\$1,050
	NR 506 Exemption for building on a historic waste site	\$700
	Other Technical Assistance	\$700
	<b>Liability Clarification Letters</b>	<b>FEE</b>
	s. 292.13(3) Off-Site Exemption Letters	\$700
	s. 292.55 Lease Letters - Single Properties	\$700
	s. 292.55 Lease Letters - Multiple Properties	\$1,400
	s. 292.55 General Liability Clarification Letters	\$700
	s. 292.21(1)(c)1.d. Lender Assessments	\$700
	<b>Department Database Fees (ss. 292.12 and 292)</b>	<b>FEE</b>
	Sites with groundwater contamination that attains or exceeds ch. NR 140	\$350
	Sites with soil contamination that attains or exceeds ch. 720 RCLs	\$300
	Sites not otherwise addressed in this schedule, where the department imposes any other limitation or condition in accordance with s. 292.12(2)	\$350
	Cases submitted for closure with monitoring wells not properly abandoned, without residual groundwater contamination	\$350
	Modification or removal of a site or property from the database	\$1,050
	<b>Other / Miscellaneous</b>	
x	PECFA Change Order Request	

Remarks:

July 6, 2018

Project Reference #16366

Mr. Andy Alles  
Wisconsin Department of Natural Resources  
101 South Webster Street  
P.O. Box 7921  
Madison, WI 53707

RE: **PECFA U & C Cost Approval Request**  
Biogenesis Enterprises, Inc.  
610 W. Rawson Avenue  
Oak Creek, Wisconsin  
**BRRTS# 02-41-107191**  
**PECFA# 53154-1437-10**  
**FID# 241020010**

Dear Mr. Alles:

On behalf of Oak Creek Rawson Industrial, LLC (OCRI), The Sigma Group, Inc. (Sigma) is submitting this PECFA Usual & Customary (U&C) Cost Approval request to the Wisconsin Department of Natural Resources (WDNR) for collection of groundwater samples and preparation of a *Site Investigation Report (SIR)* to document the results of recently completed subsurface investigation activities relating to the open leaking aboveground storage tank (LAST) case at the above referenced subject property (the "Site").

#### **BACKGROUND**

The subject property was historically used by a bulk fuel oil blending, storage, and distribution facility since development in the 1950s until the 1990s. Approximately thirty-nine (39) above ground storage tanks (ASTs) were historically located at the site for use in the blending, storage and distribution operations. The ASTs were reportedly taken out of service in 1986 and the bulk of the ASTs, with the exception of three large (800,000 gallon) ASTs, removed in 1990. The large ASTs were removed in the late 1990s/early 2000s.

A separate release associated with leaking underground storage tanks (USTs) associated with the site and tracked by BRRTS# 03-41-001132 was investigated, remediated and received regulatory case closure in July 1996.

Previous investigation activities conducted in the AST area of the site were documented in a report entitled *Site Investigation and Remedial Action Plan* dated March 8, 1996 and prepared by Natural Resource Technology, Inc. (NRT) that was submitted to WDNR in March 1996. A site map illustrating the former site layout within the AST area is included as **Figure 1**. A brief summary of the investigation activities completed within the AST area of the site follows, locations of test pits/soil borings/monitoring wells discussed in the summary are illustrated on **Figure 2**:

- In June 1991, approximately 97 cubic yards of petroleum stained soil was excavated from the former AST area located south of the railroad spur and hauled

off-site for disposal at Waste Management's Metro RDF.

- Six test pit excavations (TP-1 through TP-6) were completed in June 1991 in the former AST area located south of the railroad spur to evaluate the extent of petroleum impacts within this area of the site. Select soil samples from the test pit excavations were submitted for laboratory analysis of gasoline range organics (GRO), total recoverable petroleum hydrocarbons (TRPH), volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and lead.
- Three soil borings (SB-11 through SB-13) and one soil boring/monitoring wells (MW-14) were completed in January 1991 as a part of an investigation associated with a former office heating oil UST. Select soil samples from the soil borings/wells were analyzed for TPH as diesel, TPH as gasoline and VOCs. Although these borings were completed to evaluate potential impacts from the former fuel oil UST it is suspected that the impacts identified within the borings may be associated with the former ASTs; therefore, discussion of these borings and associated results is included within this document.
- In April/May 1995 NRT oversaw the completion of thirty (30) direct push soil borings (GP-1 through GP-30) in and around the former AST area located south of the former railroad spur. Soil samples were field screened with a photo-ionization detector (PID) and select soil samples submitted for laboratory analysis of diesel range organics (DRO), GRO, PVOCs, and PAHs. Collection of grab groundwater samples from the soil boring was attempted but was successful at only two soil boring locations (GP-2 and GP-7). The grab groundwater samples were submitted for laboratory analysis of PVOCs and naphthalene and total PAHs.
- In October 1995 NRT oversaw the installation of eleven (11) soil borings, completed as monitoring wells in the former AST area. Four monitoring wells (MW-101 through MW-104) were installed as permanent wells and seven were installed as temporary wells (TW-101 through TW-107) although it was determined that TW-103 would be converted into a permanent well. Select soil samples from the borings were submitted for laboratory analysis of DRO, GRO, PVOCs and PAHs.
- In November 1995 NRT oversaw the completion of five (5) additional soil borings (GP-31 through GP-35) in the former AST area north of the railroad spur. Temporary groundwater wells were installed at each boring location and select soil samples from the soil borings were submitted for laboratory analysis of DRO, GRO, PVOCs and PAHs.
- Monitoring wells were developed and sampled in November 1995. Permanent groundwater monitoring wells were sampled for DRO, GRO, lead and VOCs. Temporary wells were sampled for one or more of these parameters. Select groundwater samples were also submitted for laboratory analysis of PAHs.

Results of the investigation activities documented in NRT's March 1996 report are generally summarized as follows:

- Geology encountered during the subsurface investigation generally consisted of 6

inches to 1 foot of gravel fill overlying native silty clay with trace gravel to the maximum depth of the completed soil borings.

- Depth to groundwater was determined to be approximately 4 to 8 feet bgs with variable interpreted flow direction across the site.
- Elevated field screening results, stained soil and petroleum odors were prevalent within shallow soil samples within the former AST area south of the railroad spur with highest levels of impact observed on the eastern end of the former AST area, near the former dispensing pumps and near the fill valves along the south side of the railroad spur. Soil samples contained reported concentrations of DRO, GRO and benzene at several locations based on standards at the time the report was issued. Soil sampling completed in the former AST area north of the railroad spur did not identify elevated levels of contaminants based on standards at the time the report was issued.
- Concentrations of benzene and naphthalene were reported greater than applicable ch. NR 140 Enforcement Standards (ESs) within the groundwater sample collected from monitoring well MW-14. Vinyl chloride was reported at a concentration greater than the ch. NR 140 ES within the groundwater sample collected from well MW-104. Benzene was also reported at a concentration greater than the ch. NR 140 ES within grab groundwater sample collected in soil boring GP-7 and greater than the ch. NR 140 Preventive Action Limit (PAL) within the groundwater sample collected from temporary well TW-107.

Copies of tables and figures summarizing soil and groundwater analytical results from NRT's March 1996 report are included as **Attachment A**. Based on the investigation results, NRT concluded that the vertical extent of contamination appeared to be limited to the upper 5 to 8 feet of the ground surface with the exception of the vicinity of soil boring GP-5 and monitoring well MW-14 where impacts appeared to extend to depths of 10 to 12 feet bgs. NRT reviewed various remedial options and concluded that excavation and on-site treatment of soils using a soil washing process, followed by groundwater monitoring, was the most feasible option.

Since operation as a bulk petroleum blending, storage and distribution facility, the subject property was used by a company (Biogenesis) that developed and manufactured products (detergents) for use in soil/sediment washing/treatment processes. Biogenesis operations ceased at the site in 2014-2015.

#### **RECENT SITE INVESTIGATION ACTIVITIES**

It is Sigma's understanding that no additional investigation or remediation work had been completed at the site since completion of NRT's activities more than 20 years ago. Considering the length of time since the last investigation activities occurred and that the majority of the site area is not paved or covered with building, subsurface conditions at the site may have changed significantly when compared with data collected in 1995. As part of pre-purchase due diligence activities, Sigma has completed extensive additional site investigation activities at the subject property.

Sigma's scope of work to date, completed between June 2017 and the present, include the following:

- Completion of fourteen (14) test pit excavations, collection of select soil samples for laboratory analysis, installation of three (3) temporary groundwater monitoring wells and collection of grab groundwater samples for laboratory analysis;
- Completion of seventy-five (75) soil borings and collection and submittal of select soil samples for laboratory analysis;
- Evaluation, re-development and sampling of four (4) groundwater monitoring wells previously installed at the site;
- Installation, development and sampling of twelve (12) groundwater monitoring wells and two (2) piezometers; and
- Survey of the additional test pit, soil boring and monitoring well locations.

A map illustrating the locations of the additional test pits, soil borings and monitoring wells is included as **Figure 3**.

#### **RECOMMENDED SCOPE OF WORK**

It is Sigma's understanding that recently completed site investigation activities may not be eligible for reimbursement under PECFA as they were completed prior to OCRI's purchase of the property. As noted above, only one round of groundwater samples have been collected from the recently installed groundwater monitoring wells. Therefore, Sigma recommends collection of an additional confirmation round of groundwater samples from the groundwater monitoring well network (4 previously installed wells, 14 recently installed wells and piezometers) for laboratory analysis of VOCs. Based on the completed additional site investigation activities, and pending results of the confirmation groundwater sample results, Sigma believes preparation of a *SIR* is warranted. As the additional investigation activities are associated with the existing open BRRTS number and appear to be associated with historic petroleum storage and distribution activities, Sigma believes costs associated with the proposed groundwater sampling and preparation of a *SIR* should be eligible for reimbursement under PECFA.

#### **PECFA USUAL & CUSTOMARY COST ESTIMATE**

Sigma has prepared a cost estimate using the current Usual & Customary rate schedule for the scope of work described above. A copy of the Usual & Customary cost spreadsheet based on the proposed scope of work is included as **Attachment B**.

#### **Proposed Tasks**

- Groundwater Sampling
- Investigative Waste (Purge Groundwater) Disposal
- Soil and Groundwater Investigation Report
- PECFA Invoicing
- Laboratory Costs

WDNR  
PECFA Cost Approval  
July 5, 2018  
Page 5

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Project Total (**Attachment B**)

\$8,371.00

Sigma, on behalf of OCRI, requests that the Wisconsin Department of Natural Resources review and approve associated U&C Costs.

If you have any questions, please contact us at (414)-643-4200.

Sincerely,  
**THE SIGMA GROUP, INC.**



Stephen Meer, P.E.  
Senior Engineer



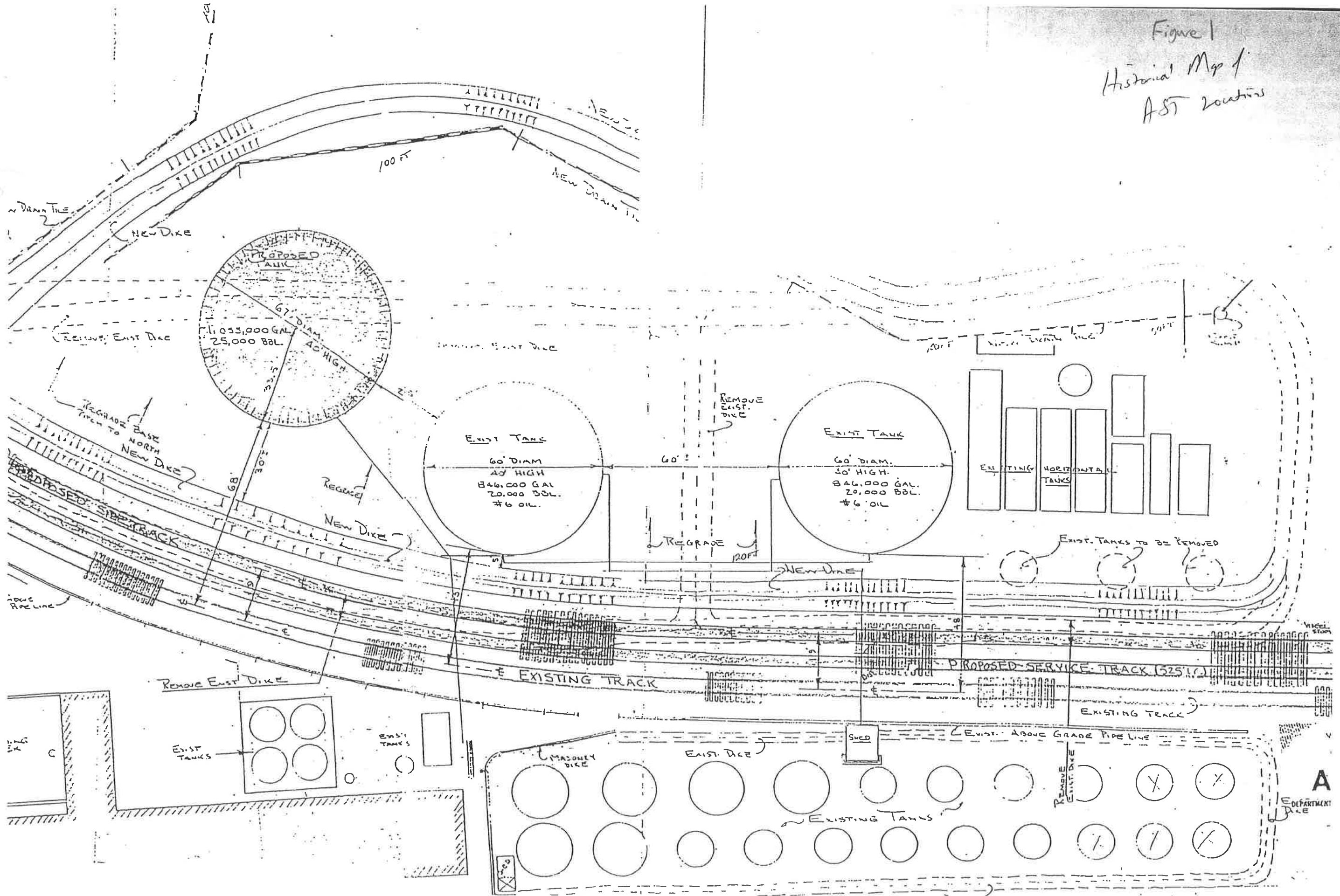
Joshua Neudorfer  
Senior Consultant

Attachments

Cc: Mr. Eric Ogden – Oak Creek Rawson Industrial, LLC (E-Copy)  
Mr. Dave Czernicki - Sigma (E-Copy)

## FIGURES

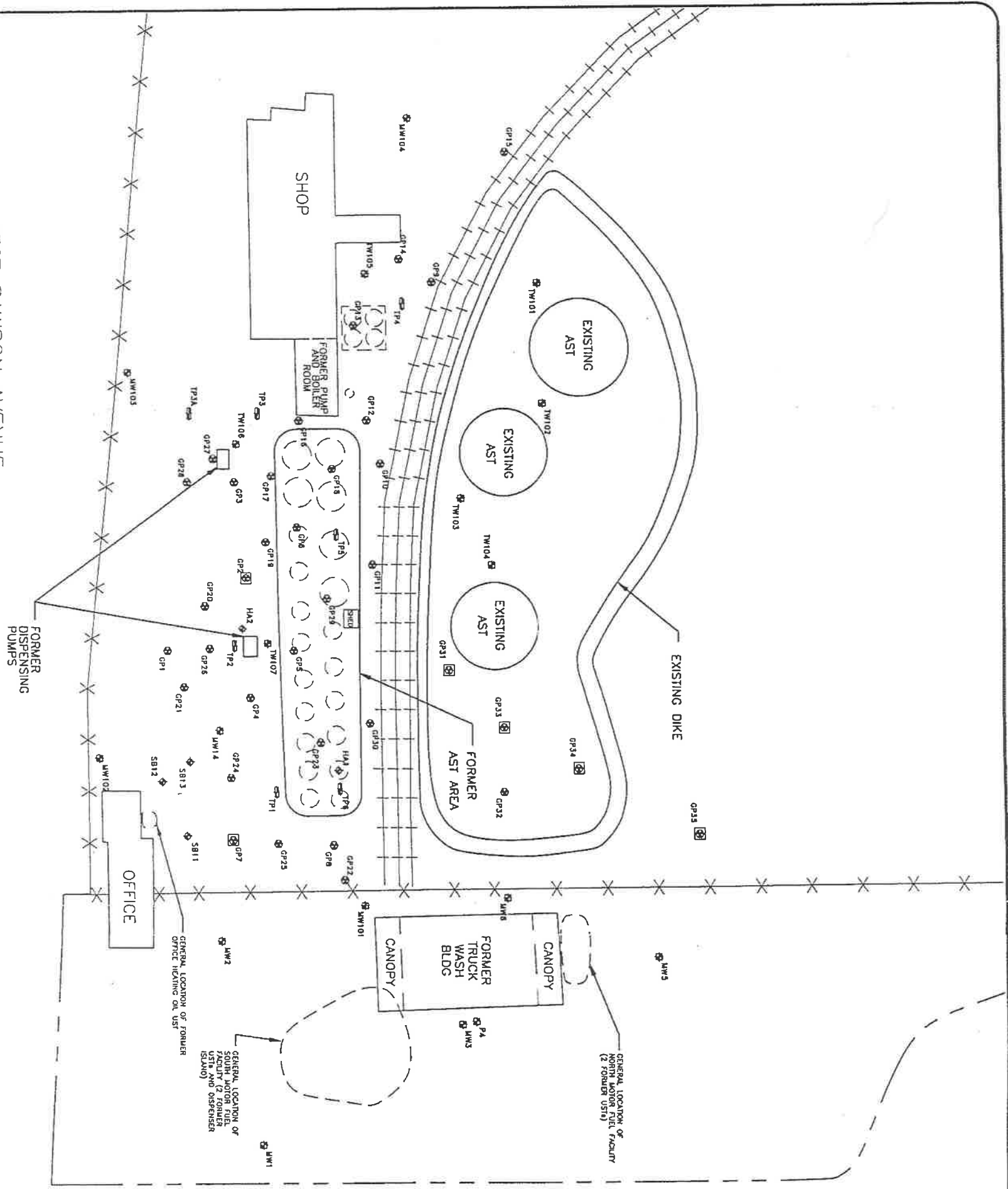
Figure 1  
 Historical Map of  
 AST Locations



A  
 DEPARTMENT  
 DICE

1" = 30'





WEST RAWSON AVENUE

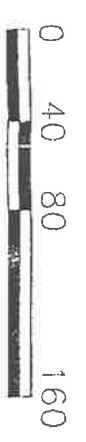
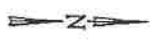
SOUTH 6TH STREET

**LEGEND**

- +—+—+— RAILROAD
- X-X-X- FENCE
- - - - - PROPERTY LINE
- ( ) FORMER AST
- ⊕ MW1-4 MONITORING WELL
- ⊕ SB11 SOIL BORING
- ⊕ TP1 TEST PIT
- ⊕ HA1 HAND AUGER
- ⊕ GP1 GEOPROBE™
- ⊕ GP2 GEOPROBE™ WITH WATER SAMPLE
- ⊕ TW101 TEMPORARY WELL

**NOTES:**

1. BASE MAP DEVELOPED FROM A DRAWING PREPARED BY NATIONAL SURVEY AND ENGINEERING, BROOKFIELD, WISCONSIN AND NORTHERN ENVIRONMENTAL, MEDUN, WISCONSIN.
2. SOIL BORINGS (SB11-SB13) AND MONITORING WELLS (MW1-MW5) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF UST INVESTIGATIONS.
3. TEST PITS (TP1-TP6) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF THE AST INVESTIGATION.
4. HAND AUGER AND GEOPROBE™ BORINGS (GP1-GP30) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON APRIL 26, 1995 AND MAY 22 THROUGH 24, 1995, RESPECTIVELY.
5. TEMPORARY WELLS (TW101-TW107) AND MONITORING WELLS (MW1-MW5) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON OCTOBER 26 AND 27, 1995. GEOPROBE™ BORINGS (GP31-35) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON NOVEMBER 15, 1995.
6. FOR EXACT EXCAVATION LIMITS FOR NORTH AND SOUTH MOTOR FUEL FACILITIES AND HEATING OIL UST, REFER TO FIGURES IN PREVIOUS NORTHERN ENVIRONMENTAL REPORTS.
7. REFER TO THE FIGURE IN APPENDIX H FOR A HISTORICAL MAP OF AST LOCATIONS.



SCALE IN FEET

**SITE LAYOUT**  
**SITE INVESTIGATION AND REMEDIAL ACTION PLAN**  
**BIOGENESIS ENTERPRISES, INC.**  
**610 RAWSON AVENUE**  
**OAK CREEK, WISCONSIN**

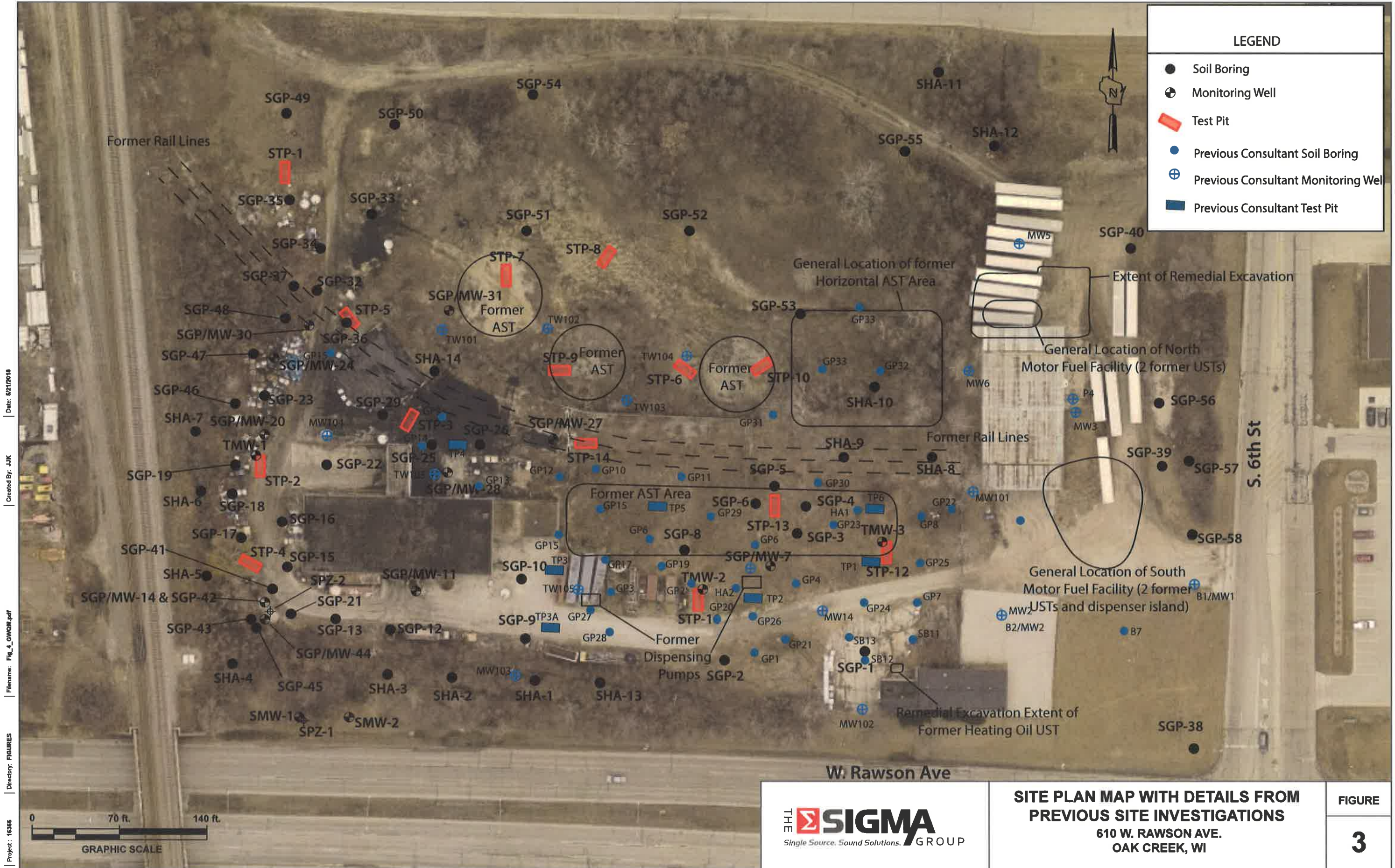
DRAWN BY: TAS	DATE: 10/30/95
CHECKED BY: JAB	DATE: 3/8/96
APPROVED BY: LJP	DATE: 3/8/96
AUTOCAD FILE: 1097-B02	

Natural Resource Technology

PROJECT NO.  
1097/3.3

DRAWING NO.  
1097-802

FIGURE NO.  
**2**



LEGEND	
●	Soil Boring
⊕	Monitoring Well
▭	Test Pit
●	Previous Consultant Soil Boring
⊕	Previous Consultant Monitoring Well
▭	Previous Consultant Test Pit

Project: 16566 | Directory: FIGURES | Filename: Fig\_4\_OWOM.pdf | Created By: JJK | Date: 6/21/2018

 Single Source. Sound Solutions. GROUP	<b>SITE PLAN MAP WITH DETAILS FROM PREVIOUS SITE INVESTIGATIONS</b> 610 W. RAWSON AVE. OAK CREEK, WI	FIGURE <b>3</b>
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**ATTACHMENT A**



Table 1 - Soil Analytical Summary - Previous Investigations (1991)

BioGenesis Enterprises, Inc.  
610 Rawson Avenue  
Oak Creek, WI

Sampling Date	Sample Location # Identification	Sample Depth (feet)	Headspace PID (ppm)	Diesel TPH (mg/kg)	Gasoline TPH (mg/kg)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Methyl tert-butyl ether (mg/kg)	EVOCS			Total EVOCS (ug/kg)	Total VOCs (ug/kg)	PAHs				Total Lead (mg/kg)			
									1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylene			Acenaphthene	Fluorene	Anthracene	Total PAHs				
1/14/91	SB11-S3	6	3.1	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SB11-S6	4	358	179	-	65	2090	633	486	12800	5090	9210	31774	72356	-	-	-	-	-	-	-
	SB12-S2	12	0.8	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SB12-S6	6	555	9.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/17/91	SB13-S3	14	3	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SB13-S6	6	840	2270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SB14-S2 (MW14)	4	6	15	-	1390	124000	725	18000	103000	134000	185000	708725	1152325	-	-	-	-	-	-	-
	SB14-S6 (MW14)	6	134	710	-	16	nd	nd	nd	nd	195	65	80	2124	-	-	-	-	-	-	-
6/21/91	TP1-S1	1	338	227	-	128	1780	nd	64	nd	4430	3398	9800	13729	-	-	-	-	-	-	-
	TP1-S2	3	227	5700	-	nd	nd	nd	1110	nd	186000	30910	239742	708342	-	-	-	-	-	-	-
	TP2-S1	1	246	241	-	22	21500	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP2-S2	3	241	80	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP2-S3	5	80	107	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP2-S4	7	107	132	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP2-S5	9	132	61	-	10	30	nd	188	nd	81	99	388	624	-	-	-	-	-	-	-
	TP2-S6	11	37	84	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP2-S7	12	4.2	22	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3-S1	1.5	2.2	49	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3-S2	3	4.2	19	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3-S3	3	2.2	131	-	nd	19	nd	nd	nd	94	26	139	708	-	-	-	-	-	-	-
	TP3-S4	3	4.2	135	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3A-S1	1.5	19	34	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3A-S2	3	37	7.2	-	2.7	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3A-S3	5	7.2	38	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3A-S4	7	1.9	1.1	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3A-S5	9	1.1	1.1	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3A-S6	11	1.1	1.1	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP3A-S7	14	1.1	1.1	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP4-S1	1	116	14	-	nd	66	nd	46	nd	569	301	982	1296	-	-	-	-	-	-	-
	TP4-S2	2	170	56	-	nd	nd	nd	nd	nd	202	119	331	768	-	-	-	-	-	-	-
	TP4-S3	4	213	171	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP4-S4	6	171	169	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP4-S5	8	169	17	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP4-S6	9	17	9.3	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP4-S7	11	6.4	nd	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP4-S8	13	6.4	nd	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP6-S1	1	291	1200	-	246	4630	nd	164	nd	5640	10080	28367	28367	-	-	-	-	-	-	-
	TP6-S2	3	310	304	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP6-S3	5	304	89	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP6-S4	7	89	241	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP6-S5	9	241	6.2	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	TP6-S6	11	6.2	5.2	-	11	18	nd	53	nd	107	76	265	317	-	-	-	-	-	-	-
	TP6-S7	13	2.2	5.2	-	nd	nd	nd	nd	nd	nd	nd	nd	nd	-	-	-	-	-	-	-
	NR 720 Soil Standards (Residual Contaminant Levels)			250	250	5.5	2960	ns	1500	ns	ns	4100	ns	ns	ns	ns	ns	ns	ns	ns	50/500

NOTES:  
nd = not detected  
- = not analyzed

\* - For Sample Location, refer to Figure 2.  
NR 720 Soil Standard for TPH as diesel /TRPH (DRO) and TPH as gasoline/GRO assumes hydraulic conductivity of < 1\*10E-6 cm/s.  
ns = no current NR 720 standard.  
Bold and shaded values indicate NR720 Soil Standard Exceedances.  
Photoionization detector (PID) had an 10.6 eV lamp

BY: JAG  
CHKD BY: NMB

Table 2 - Soil Screening Results - 1995 Investigation



BioGenesis Enterprises, Inc.  
610 Rawson Avenue  
Oak Creek, WI

Sampling Date	Sample Location*/ Identification	Sample Depth Interval (feet)	Headspace	Immunoassay
			PID (ppm)	(Total PAHs) (ppm)
4/26/95	HA1	1-2	--	4.0
	HA2	1-2	--	100
05/22/95	GP1	0-2	230	>50
	GP1	2-4	170	--
	GP1	4-6	26.3	0.9
	GP1	6-8	31.7	--
	GP1	8-10	24	1.2
	GP2	0-2	96	--
	GP2	2-4	102	--
	GP2	4-6	153	2.3
	GP2	6-8	186	--
	GP2	8-10	100	1.1
	GP3	0-2	1053	--
	GP3	2-4	142	1.1
	GP3	4-6	88.5	--
	GP3	6-8	95	46
	GP3	8-10	30.2	--
	GP4	0-2	>2500	--
	GP4	2-4	>2500	22
	GP4	4-6	>2500	--
	GP4	6-8	265	--
	GP4	8-10	85.9	0.3
	GP5	0-2	2054	--
	GP5	2-4	>2500	200
	GP5	4-6	1515	--
	GP5	6-8	1787	--
	GP5	8-10	1241	--
	GP5	10-12	545	6.2
	GP6	0-2	199	--
	GP6	2-4	>2500	190
	GP6	4-6	>2500	--
	GP6	6-8	650	--
	GP6	8-10	34.3	2.4
	GP7	0-2	240	--
	GP7	2-4	74.2	0.4
	GP7	4-6	--	--
	GP7	6-8	--	--
	GP7	8-10	25.3	0.8
	GP8	0-2	41.9	--
	GP8	2-4	2015	9.6
	GP8	4-6	>2500	--
	GP8	6-8	1069	0.03
GP8	8-10	64.7	nd	
GP9	0-2	36.9	--	
GP9	2-4	>2500	7.0	
GP9	4-6	79.4	--	
GP9	6-8	42	--	
GP9	8-10	171	1.0	

Sampling Date	Sample Location*/ Identification	Sample Depth Interval (feet)	Headspace	Immunoassay	
			PID (ppm)	(Total PAHs) (ppm)	
5/22/95 (cont.)	GP10	0-2	907	--	
	GP10	2-4	569	>500	
	GP10	4-6	72.9	--	
	GP10	6-8	nd	--	
	GP10	8-10	7.8	0.4	
	GP11	0-2	nd	--	
	GP11	2-4	>2500	22	
	GP11	4-6	1710	--	
	GP11	6-8	1765	9.0	
	GP11	8-10	186	3.2	
	05/23/95	GP12	2-4	553	--
		GP12	8-10	141	--
GP13		2-4	330	--	
GP13		8-10	24.9	--	
GP14		2-4	1155	--	
GP14		8-10	22.4	--	
GP15		2-4	27.9	--	
GP15		6-8	324	--	
GP16		2-4	750	--	
GP16		8-10	88.5	--	
GP17		2-4	45.3	--	
GP17		7-9	83.6	--	
GP18		2-4	401	--	
GP18		6-8	13.1	--	
GP19		2-4	11.2	--	
GP19		6-8	114	--	
GP19		8-10	10.9	--	
GP20		2-4	10.8	--	
GP20		7-9	9.1	--	
GP21		2-4	42.5	--	
GP21	7-9	12.1	--		
GP22	2-4	206	--		
GP22	6-8	15.6	--		
GP23	3-5	1593	--		
GP23	8-10	90.8	--		
05/24/95	GP24	3-4	>2500	--	
	GP24	7-9	1125	--	
	GP25	2-4	123	--	
	GP25	6-8	14.6	--	
	GP26	2-4	79.3	--	
	GP26	6-8	nd	--	
	GP27	2-4	1519	--	
	GP27	7-9	80.3	--	
	GP28	2-4	574	--	
	GP28	6-8	nd	--	
GP29	2-4	1274	--		
GP29	8-10	129	--		
GP30	2-4	576	--		
GP30	7-9	21.1	--		

Table 2 - Soil Screening Results (cont.)



BioGenesis Enterprises, Inc.  
610 Rawson Avenue  
Oak Creek, WI

Sampling Date	Sample Location*/ Identification	Sample Depth Interval (feet)	Headspace PID
			(ppm)
10/26/95	MW101	1-3	nd
	MW101	3-5	nd
	MW101	5-7	nd
	MW101	7-9	nd
	MW101	9-11	nd
	MW101	11-13	nd
	MW102	1-3	nd
	MW102	3-5	nd
	MW102	5-7	32
	MW102	7-9	nd
	MW102	9-11	nd
	MW102	11-13	nd
	MW103	1-3	nd
	MW103	3-5	--
	MW103	5-7	nd
	MW103	7-9	nd
	MW103	9-11	nd
	MW103	11-13	nd
	MW104	1-3	nd
	MW104	3-5	nd
	MW104	5-7	nd
	MW104	7-9	nd
	MW104	9-11	nd
	MW104	11-13	nd
	TW101	1-3	--
	TW101	3-5	nd
	TW101	5-7	nd
	TW101	7-9	--
	TW101	9-11	nd
	TW101	11-13	nd
	TW102	1-3	--
	TW102	3-5	nd
	TW102	5-7	nd
	TW102	7-9	nd
	TW102	9-11	nd
	TW102	11-13	nd
	TW103	1-3	--
	TW103	3-5	nd
	TW103	5-7	nd
	TW103	7-9	nd
	TW103	9-11	nd
	TW103	11-13	nd
10/27/95	TW104	1-3	--
	TW104	3-5	nd
	TW104	5-7	nd
	TW104	7-9	nd
	TW104	9-11	nd
	TW104	11-13	nd

Sampling Date	Sample Location*/ Identification	Sample Depth Interval (feet)	Headspace PID
			(ppm)
10/27/95 (cont.)	TW105	1-3	--
	TW105	3-5	130
	TW105	5-7	64
	TW105	7-9	35
	TW105	9-11	nd
	TW105	11-13	nd
	TW106	1-3	--
	TW106	3-5	231
	TW106	5-7	36.4
	TW106	7-9	nd
	TW106	9-11	nd
	TW106	11-13	nd
	TW107	1-3	--
	TW107	3-5	145
11/15/95	TW107	5-7	124
	TW107	7-9	nd
	TW107	9-11	nd
	TW107	11-13	nd
	GP31	1-3	--
	GP31	3-5	nd
	GP31	5-7	nd
	GP31	7-9	nd
	GP31	9-11	nd
	GP31	11-13	nd
	GP32	1-3	--
	GP32	3-5	nd
	GP32	5-7	nd
	GP32	7-9	nd
	GP32	9-11	nd
	GP32	11-13	nd
	GP33	1-3	--
	GP33	3-5	nd
	GP33	5-7	nd
	GP33	7-9	nd
	GP33	9-11	nd
GP33	11-13	nd	
GP34	1-3	--	
GP34	3-5	nd	
GP34	5-7	nd	
GP34	7-9	nd	
GP34	9-11	nd	
GP34	11-13	nd	
GP35	1-3	--	
GP35	3-5	nd	
GP35	5-7	nd	
GP35	7-9	nd	
GP35	9-11	nd	
GP35	11-13	nd	

**Notes:**

nd = not detected

-- = not analyzed

\* - For Sample Location, refer to Figure 2.

Photoionization detector (PID) had an 11.7 eV lamp

Immunoassay kit was an Ohmicron RaPID assay for PAHs.

BY: JAG

CHKD BY: MMB/KSG







**Table 4 - Water Table Elevation Summary**



**BioGenesis Enterprises, Inc.**  
 610 Rawson Avenue  
 Oak Creek, WI

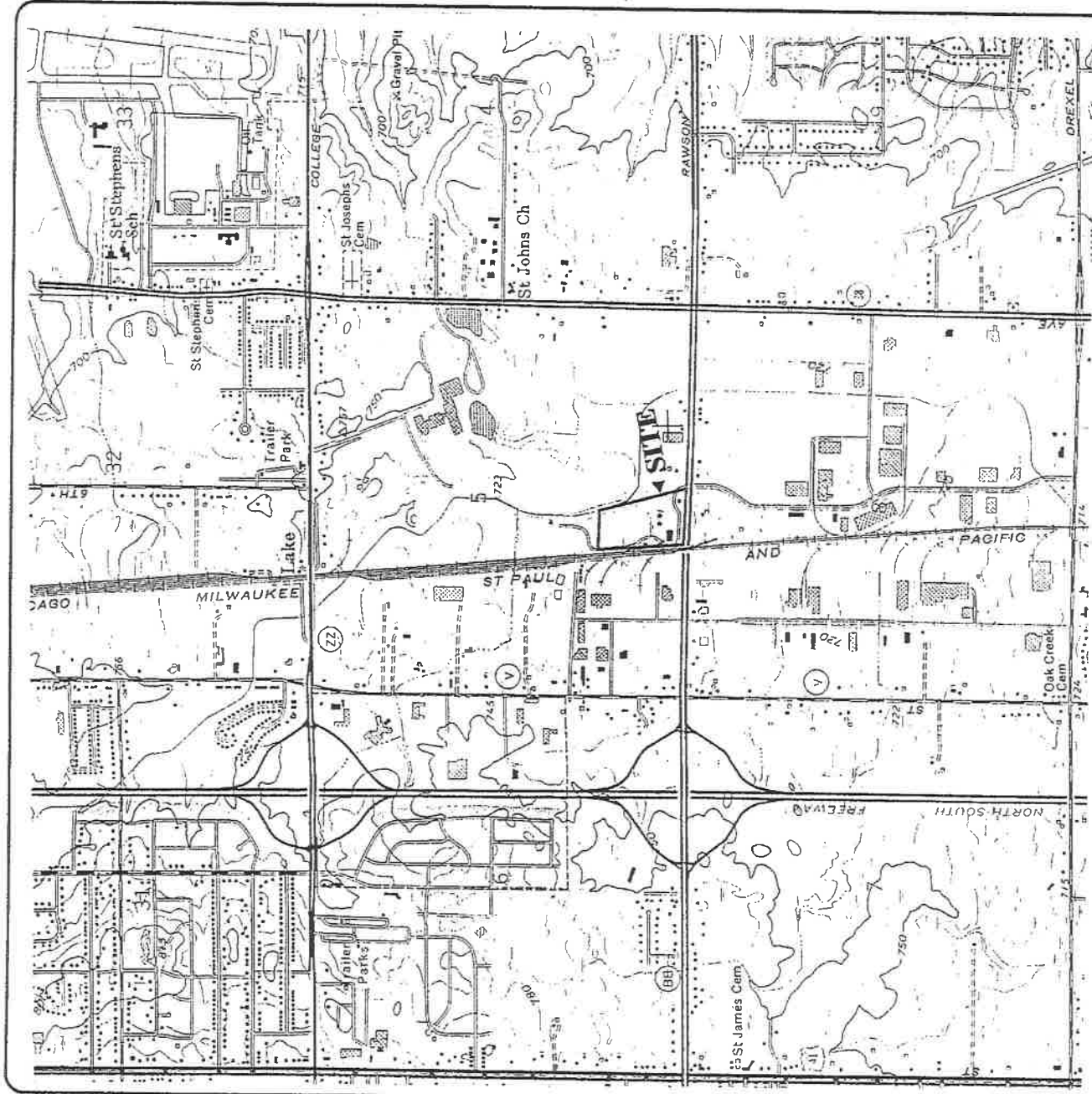
Monitoring Well	Top of PVC Elevation (feet MSL)	Ground Surface Elevation (feet MSL)	Well Depth (feet)	Bottom of Well Elevation (feet MSL)	November 21, 1995		December 27, 1995	
					Depth to Water (feet)	Water Table Elevation (feet MSL)	Depth to Water (feet)	Water Table Elevation (feet MSL)
MW14	728.74	728.83	12.40	716.34	3.82	724.92	4.24	724.50
MW101	732.20	729.70	15.33	716.87	10.17	722.03	8.16	724.04
MW102	729.21	727.19	15.36	713.85	10.09	719.12	8.49	720.72
MW103	732.98	731.17	15.23	717.75	12.86	720.12	8.99	723.99
MW104	731.83	732.30	13.82	718.01	3.78	728.05	4.78	727.05
TW101	730.66	729.52	15.34	715.32	2.21	728.45	3.71	726.95
TW102	729.65	728.53	15.37	714.28	10.83	718.82	4.63	725.02
TW103	731.07	728.56	16.71	714.36	3.18	727.89	3.45	727.62
TW104	730.89	728.92	15.22	715.67	13.59	717.30	10.83	720.06
TW105	733.33	732.20	15.23	718.10	4.83	728.50	6.31	727.02
TW106	731.18	731.11	13.34	717.84	6.91	724.27	3.86	727.32
TW107	732.32	730.37	15.23	717.09	3.74	728.58	5.96	726.36

**Notes:**

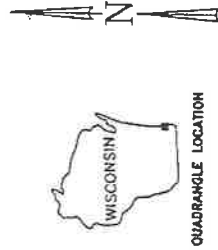
Depths measured from top of well casing (feet).  
 Elevations are relative to mean sea level (feet).

By: KSG  
 Checked by: JAG





SOURCE: USGS 7.5 MINUTE QUADRANGLE,  
 GREENDALE, DATED 1958,  
 PHOTOREVISED 1971 AND 1976.

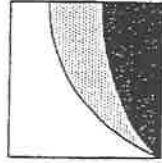


QUADRANGLE LOCATION



SCALE IN FEET

CONTOUR INTERVAL 10 FEET



N R T

Natural  
 Resource  
 Technology

SITE LOCATION MAP

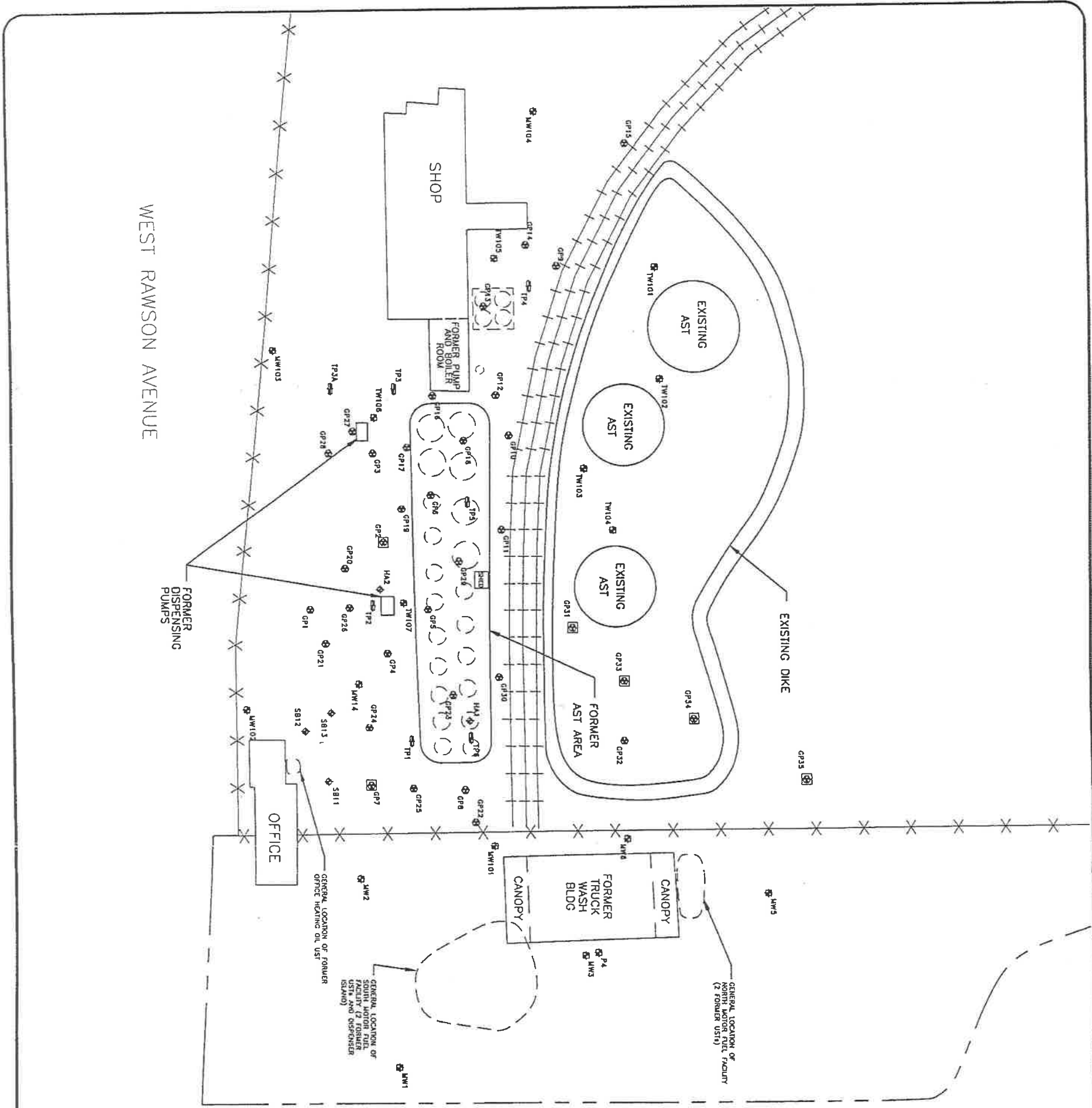
SITE INVESTIGATION AND REMEDIAL ACTION PLAN  
 BIOGENESIS ENTERPRISES, INC.  
 610 WEST RAWSON AVENUE  
 OAK CREEK, WISCONSIN

PROJECT NO.  
 1097

DRAWING NO.  
 1097-A1

FIGURE NO.  
 1

DRAWN BY: TAS APPROVED BY: *LSF* DATE: 3/8/96



WEST RAWSON AVENUE

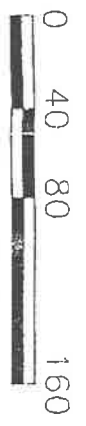
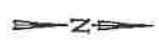
SOUTH 6TH STREET

**LEGEND**

- +—+—+— RAILROAD
- X-X-X-X- FENCE
- PROPERTY LINE
- ( ) FORMER AST
- ⊕ MW14 MONITORING WELL
- ⊕ SB11 SOIL BORING
- ⊕ TP1 TEST PIT
- ⊕ HA1 HAND AUGER
- ⊕ GP1 GEOPROBE™
- ⊕ GP2 GEOPROBE™ WITH WATER SAMPLE
- ⊕ TW101 TEMPORARY WELL

**NOTES:**

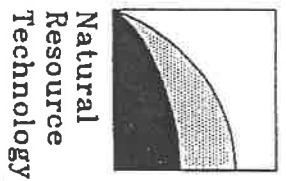
1. BASE MAP DEVELOPED FROM A DRAWING PREPARED BY NATIONAL SURVEY AND ENGINEERING, BROOKFIELD, WISCONSIN AND NORTHERN ENVIRONMENTAL, MEDUN, WISCONSIN.
2. SOIL BORINGS (SB11-SB13) AND MONITORING WELLS (MW1-MW15) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF UST INVESTIGATIONS.
3. TEST PITS (TP1-TP4) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF THE AST INVESTIGATION.
4. HAND AUGER AND GEOPROBE™ BORINGS (GP1-GP23) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON APRIL 26, 1995 AND MAY 22 THROUGH 24, 1995, RESPECTIVELY.
5. TEMPORARY WELLS (TW101-TW107) AND MONITORING WELLS (MW1-MW15) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON OCTOBER 28 AND 27, 1995. GEOPROBE BORINGS (GP23-S2) DEVELOPED BY NATURAL RESOURCE TECHNOLOGY ON NOVEMBER 15, 1995.
6. FOR EXACT EXCAVATION LIMITS FOR NORTH AND SOUTH MOTOR FUEL FACILITIES AND HEATING OIL UST, REFER TO FIGURES IN PREVIOUS NORTHERN ENVIRONMENTAL REPORTS.
7. REFER TO THE FIGURE IN APPENDIX H FOR A HISTORICAL MAP OF AST LOCATIONS.



SCALE IN FEET

DRAWN BY: TAS	DATE: 10/30/95
CHECKED BY: JAB	DATE: 3/8/96
APPROVED BY: LTP	DATE: 3/8/96
AUTOCAD FILE: 1097-802	

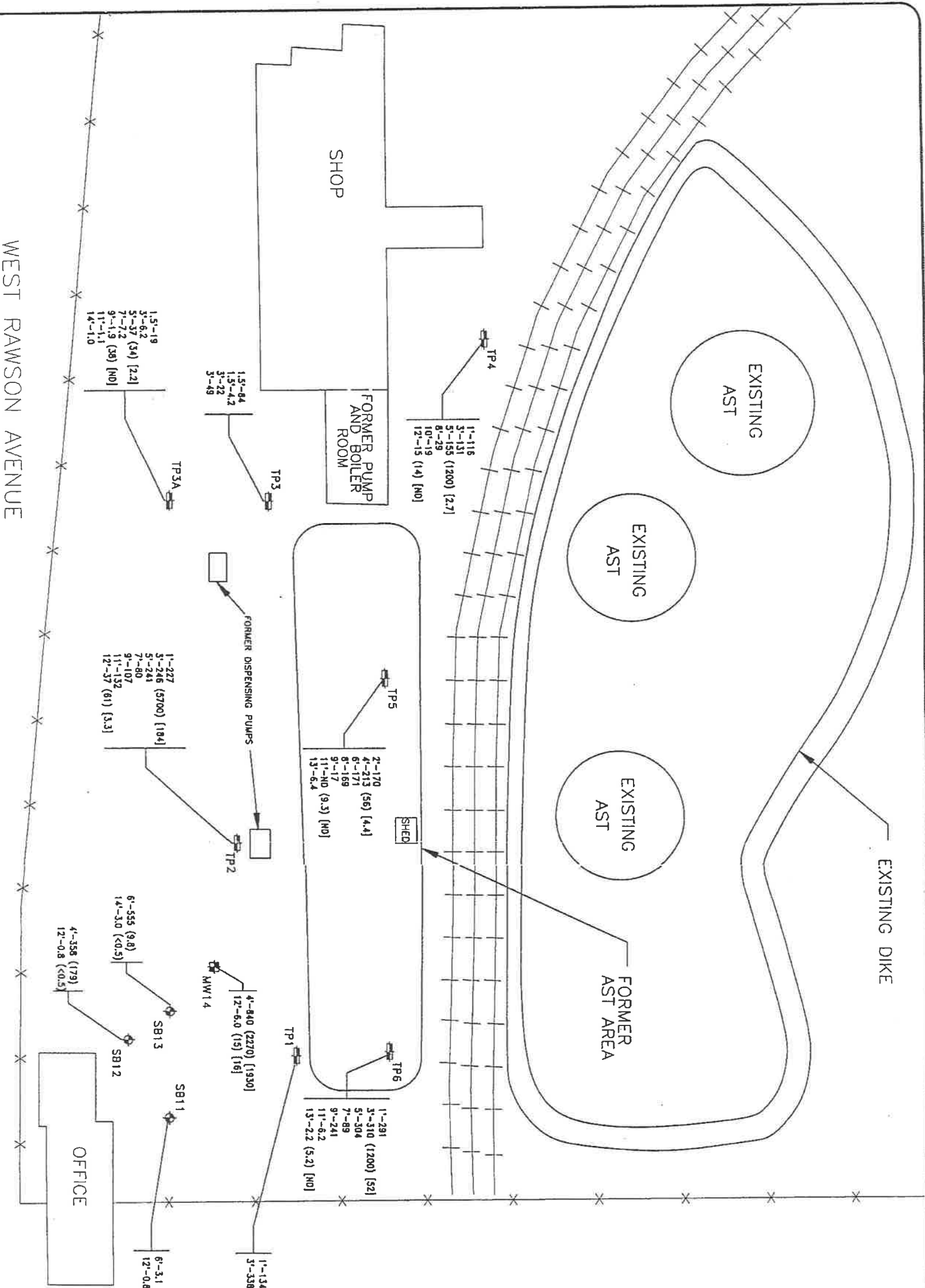
**SITE LAYOUT**  
 SITE INVESTIGATION AND REMEDIAL ACTION PLAN  
 BIOGENESIS ENTERPRISES, INC.  
 610 RAWSON AVENUE  
 OAK CREEK, WISCONSIN



PROJECT NO.  
1097/3.3

DRAWING NO.  
1097-802

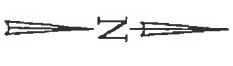
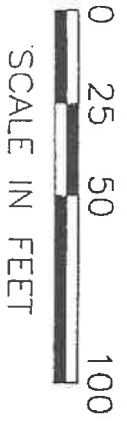
FIGURE NO.  
2



NOTES:  
 1. BASE MAP DEVELOPED FROM A DRAWING PREPARED BY NATIONAL SURVEY AND ENGINEERING, BROOKFIELD, WISCONSIN AND NORTHERN ENVIRONMENTAL, MEQUON, WISCONSIN.  
 2. SOIL BORINGS (SB11-SB13) AND MONITORING WELL (MW14) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF UST INVESTIGATION.  
 3. TEST PITS (TP1-TP6) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF THE AST INVESTIGATION.

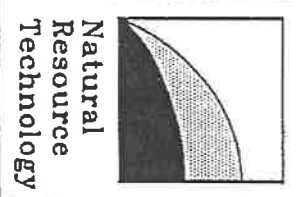
**LEGEND**

- RAILROAD
- x-x-x-x- FENCE
- ⊕ MW14 MONITORING WELL
- ⊕ SB11 SOIL BORING
- ⊕ TP1 TEST PIT
- ND NOT DETECTED
- 5'-155 (1200) [2.7] GASOLINE RANGE ORGANICS (TEST PITS) OR TPH AS
- TRPH (TEST PITS) OR TPH AS
- DIESEL (SB11-SB13, MW14) (mg/kg)
- HEADSPACE PID (ppm)(10.6eV LAMP)
- SAMPLE DEPTH (FEET)

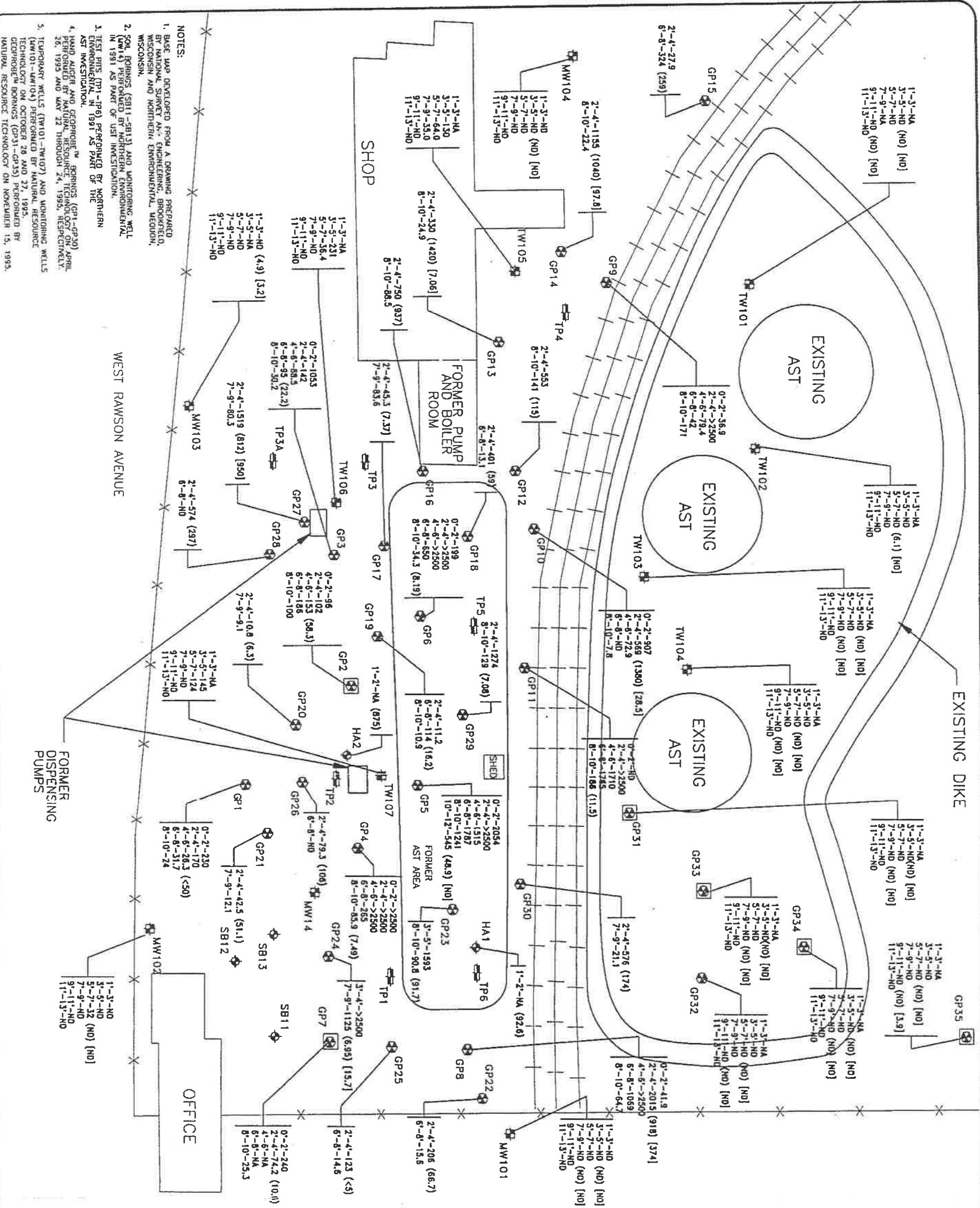


**SOIL PID, DRO AND GRO RESULTS FROM 1991 INVESTIGATION**  
 SITE INVESTIGATION AND REMEDIAL ACTION PLAN  
 BIOGENESIS ENTERPRISES, INC.  
 610 WEST RAWSON AVENUE  
 OAK CREEK, WISCONSIN

DRAWN BY: TAS	DATE: 11/2/95
CHECKED BY: JAC	DATE: 3/8/96
APPROVED BY: LTP	DATE: 3/8/96
AUTOCAD FILE: 1097-805	



PROJECT NO. 1097/3.3  
 DRAWING NO. 1097-805  
 FIGURE NO. 3



- NOTES:
1. BASE MAP DEVELOPED FROM A DRAWING PREPARED BY NATIONAL RESOURCE TECHNOLOGY, BROOKFIELD, WISCONSIN AND NORTHERN ENVIRONMENTAL, WISCONSIN.
  2. SOIL BORINGS (SB11-SB13) AND MONITORING WELL (MW14) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF UST INVESTIGATION.
  3. TEST PITS (TP1-TP6) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF THE AST INVESTIGATION.
  4. HAND AUGER AND GEOPROBE™ BORINGS (GP1-GP30) PERFORMED BY NATURAL RESOURCE TECHNOLOGY, BROOKFIELD, WISCONSIN THROUGH 24, 1995, RESPECTIVELY.
  5. TEMPORARY WELLS (TW101-TW107) AND MONITORING WELLS (MW101-MW104) PERFORMED BY NATURAL RESOURCE TECHNOLOGY THROUGH 26 AND 27, 1995, RESPECTIVELY.
  6. GEOPROBE™ BORINGS (GP31-GP35) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON NOVEMBER 15, 1995.

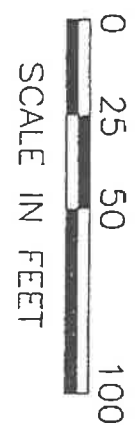
WEST RAWSON AVENUE

EXISTING DIKE

LEGEND

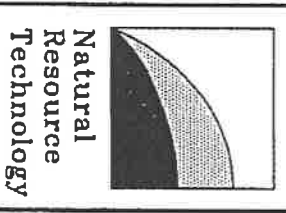
- RAILROAD
- x-x-x-x- FENCE
- ⊕ MW14 MONITORING WELL
- ⊕ SB11 SOIL BORING
- ⊕ TW101 TEMPORARY WELL
- ⊕ TP1 TEST PIT
- ⊕ HA1 HAND AUGER
- ⊕ GP1 GEOPROBE™
- ⊕ GP2 GEOPROBE™ WITH WATER SAMPLE
- ⊕ ND NOT DETECTED
- ⊕ NA NOT ANALYZED

2'-4'-330 (1420) [7.06]  
 GASOLINE RANGE ORGANICS (mg/kg)  
 DIESEL RANGE ORGANICS (mg/kg)  
 HEADSPACE PID (ppm)(11.7eV LAMP)  
 SAMPLE DEPTH INTERVAL (FEET)

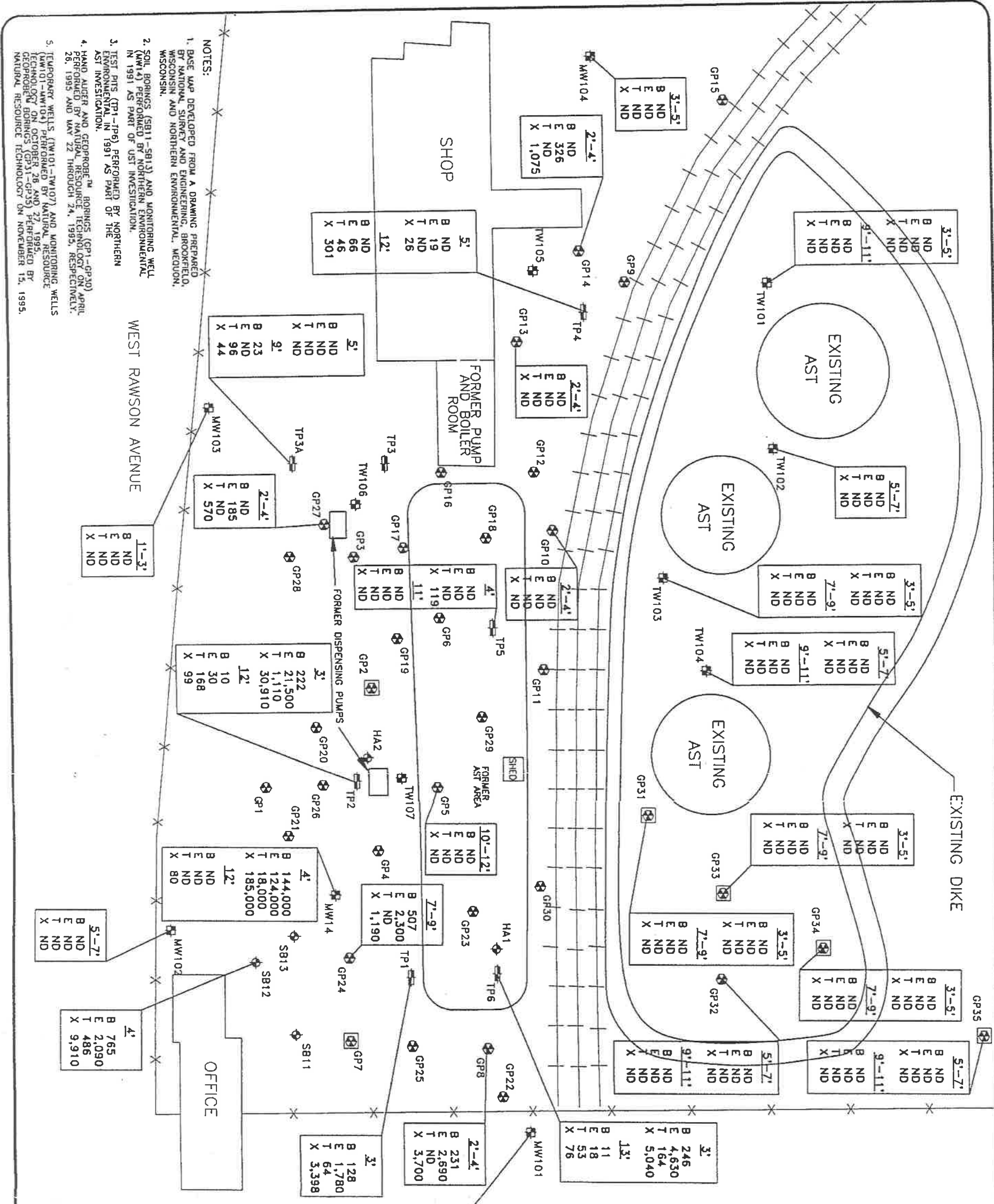


SOIL PID, DRO, AND GRO RESULTS FROM 1995 INVESTIGATION  
 SITE INVESTIGATION AND REMEDIAL ACTION PLAN  
 BIOGENESIS ENTERPRISES, INC.  
 610 WEST RAWSON AVENUE  
 OAK CREEK, WISCONSIN

DRAWN BY:	TAS	DATE:	7/7/95
CHECKED BY:	JAG	DATE:	3/8/96
APPROVED BY:	LJP	DATE:	3/8/96
AUTOCAD FILE: 1097-B06			



Natural Resource Technology  
 PROJECT NO. 1097/3.3  
 DRAWING NO. 1097-B06  
 FIGURE NO. 4



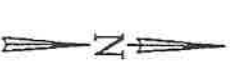
NOTES:  
 1. BASE MAP DEVELOPED FROM A DRAWING PREPARED BY NATIONAL SURVEY AND ENGINEERING, BROOKFIELD, WISCONSIN AND NORTHERN ENVIRONMENTAL, MEQUON, WISCONSIN.  
 2. SOIL BORINGS (SB11-SB13) AND MONITORING WELL (MW14) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF UST INVESTIGATION.  
 3. TEST PITS (TP1-TP6) PERFORMED BY THE AST INVESTIGATION.  
 4. HAND AUGER AND GEOPROBE™ BORINGS (GP1-GP30) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON APRIL 26, 1995 AND MAY 22 THROUGH 24, 1995, RESPECTIVELY.  
 5. TEMPORARY WELLS (TW101-TW107) AND MONITORING WELLS (MW101-MW104) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON OCTOBER 28 AND 27, 1995, RESPECTIVELY. GEOPROBE BORINGS (GP31-GP35) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON NOVEMBER 15, 1995.

WEST RAWSON AVENUE

**LEGEND**

- RAILROAD
- FENCE
- MONITORING WELL
- SOIL BORING
- TEST PIT
- HAND AUGER
- GEOPROBE™
- GEOPROBE™ WITH WATER SAMPLE
- TEMPORARY WELL
- NOT DETECTED

SAMPLE DEPTH (FEET)	BENZENE	ETHYLBENZENE	TOLUENE	XYLENES
	B	E	T	X
	ND	ND	ND	ND
	X	X	X	X
	CONCENTRATIONS IN UG/KG			



SOIL BETX RESULTS FROM  
 1991 AND 1995 INVESTIGATIONS  
 SITE INVESTIGATION AND REMEDIAL ACTION PLAN  
 BIOGENESIS ENTERPRISES, INC.  
 610 WEST RAWSON AVENUE  
 OAK CREEK, WISCONSIN

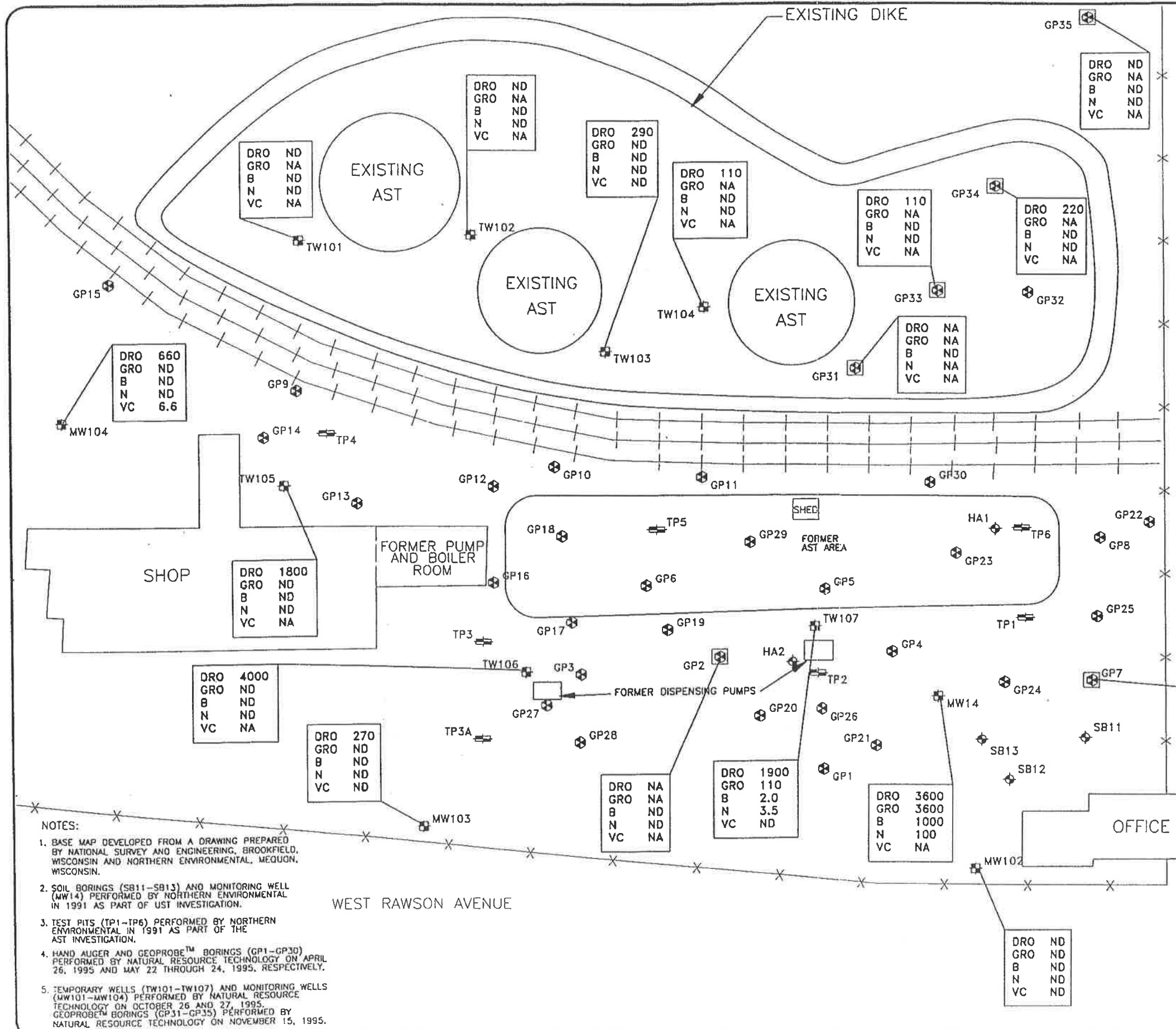
DRAWN BY:	TAS	DATE:	11/9/95
CHECKED BY:	JAG	DATE:	3/8/96
APPROVED BY:	LJP	DATE:	3/8/96
AUTOCAD FILE: 1097-B07			

Natural Resource Technology

PROJECT NO.  
1097/3.3

DRAWING NO.  
1097-B07

FIGURE NO.  
5



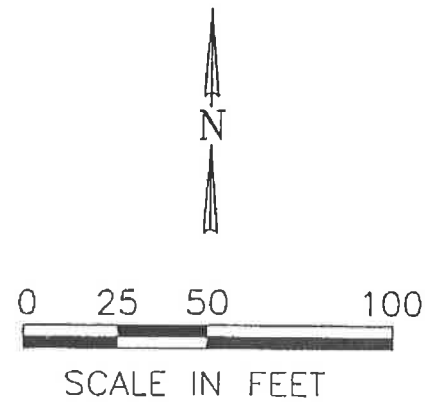
**LEGEND**

- ++++ RAILROAD
- XXXX FENCE
- MW14 MONITORING WELL
- SB11 SOIL BORING
- TP1 TEST PIT
- HA1 HAND AUGER
- GP1 GEOPROBE™
- GP2 GEOPROBE™ WITH WATER SAMPLE
- TW101 TEMPORARY WELL
- NA NOT ANALYZED
- ND NOT DETECTED

DRO DIESEL RANGE ORGANICS  
 GRO GASOLINE RANGE ORGANICS  
 B BENZENE  
 N NAPHTHALENE\*  
 VC VINYL CHLORIDE  
 CONCENTRATIONS IN UG/L

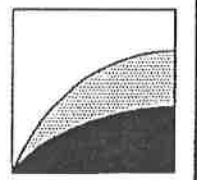
\*METHOD OF ANALYSIS IS SW846 8260 OR 8021 OR 8310. SEE ANALYTICAL REPORTS FOR METHOD OF ANALYSIS.

- NOTES:**
1. BASE MAP DEVELOPED FROM A DRAWING PREPARED BY NATIONAL SURVEY AND ENGINEERING, BROOKFIELD, WISCONSIN AND NORTHERN ENVIRONMENTAL, MEQUON, WISCONSIN.
  2. SOIL BORINGS (SB11-SB13) AND MONITORING WELL (MW14) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF UST INVESTIGATION.
  3. TEST PITS (TP1-TP6) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF THE AST INVESTIGATION.
  4. HAND AUGER AND GEOPROBE™ BORINGS (GP1-GP30) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON APRIL 26, 1995 AND MAY 22 THROUGH 24, 1995, RESPECTIVELY.
  5. TEMPORARY WELLS (TW101-TW107) AND MONITORING WELLS (MW101-MW104) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON OCTOBER 26 AND 27, 1995. GEOPROBE™ BORINGS (GP31-GP35) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON NOVEMBER 15, 1995.



DRAWN BY:	TAS	DATE:	12/19/95
CHECKED BY:	JAB	DATE:	3/8/96
APPROVED BY:	LJP	DATE:	3/8/96
AUTOCAD FILE: 1097-B08			

**GROUNDWATER CONCENTRATIONS FROM 1995 INVESTIGATION**  
 SITE INVESTIGATION AND REMEDIAL ACTION PLAN  
 BIOGENESIS ENTERPRISES, INC.  
 610 WEST RAWSON AVENUE  
 OAK CREEK, WISCONSIN

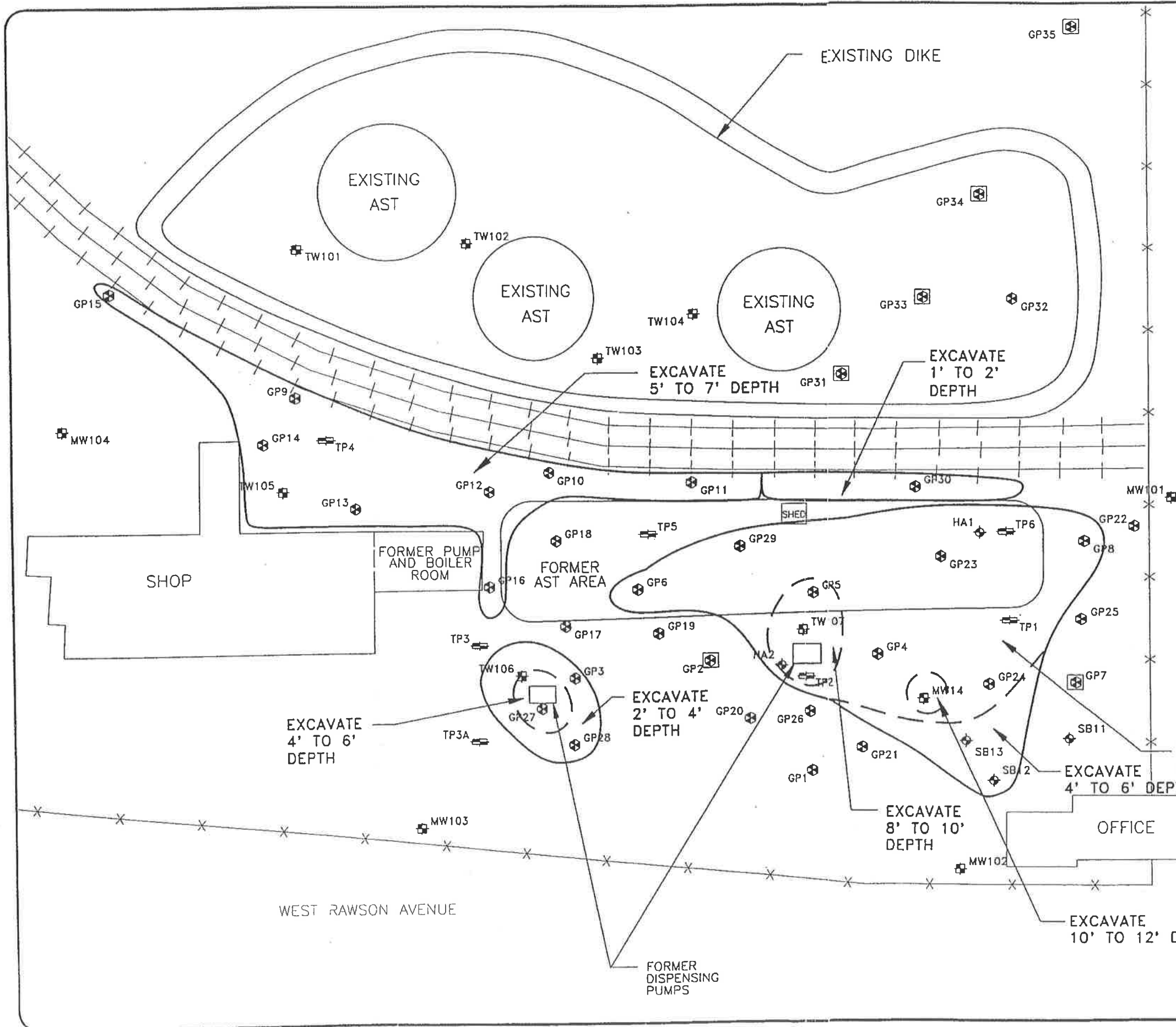


**Natural Resource Technology**

PROJECT NO.	1097/3.3
DRAWING NO.	1097-B08
FIGURE NO.	6





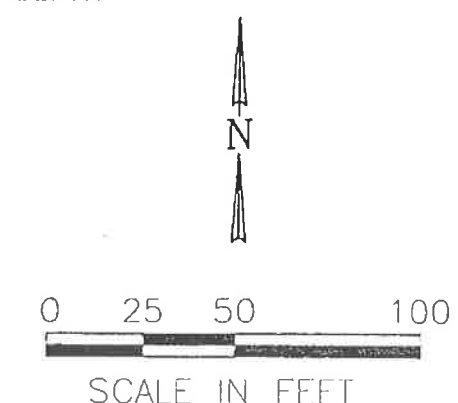


**LEGEND**

- ++++ RAILROAD
- XXXX FENCE
- MW14 MONITORING WELL
- SB11 SOIL BORING
- TP1 TEST PIT
- HA1 HAND AUGER
- GP1 GEOPROBE™
- GP2 GEOPROBE™ WITH WATER SAMPLE
- TW101 TEMPORARY WELL
- LIMITS OF EXCAVATION
- - - - LIMITS OF EXCAVATION (DEEPER)

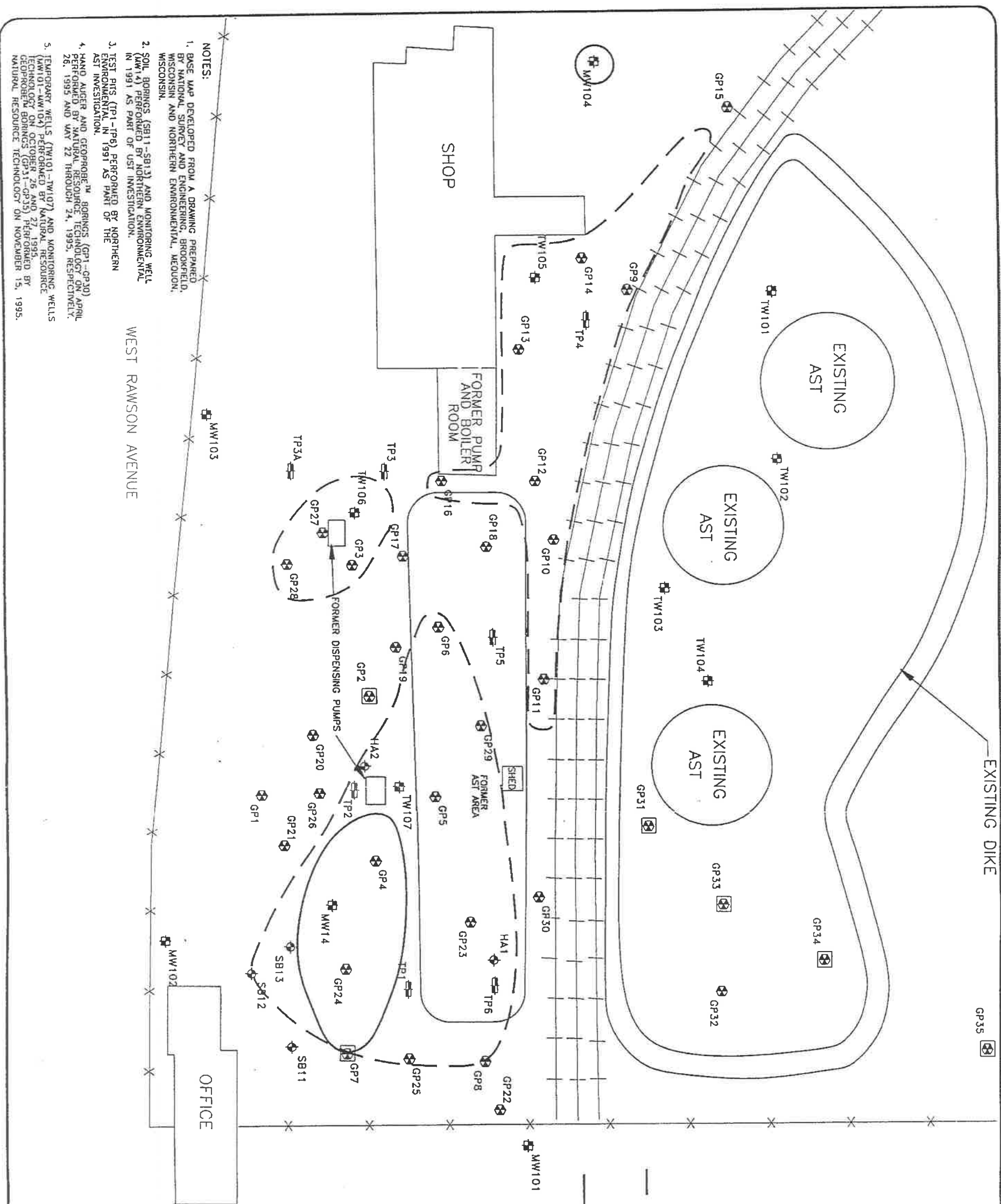
**NOTES:**

1. BASE MAP DEVELOPED FROM A DRAWING PREPARED BY NATIONAL SURVEY AND ENGINEERING, BROOKFIELD, WISCONSIN AND NORTHERN ENVIRONMENTAL, MEQUON, WISCONSIN.
2. SOIL BORINGS (SB11-SB13) AND MONITORING WELL (MW14) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF UST INVESTIGATION.
3. TEST PITS (TP1-TP6) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF THE AST INVESTIGATION.
4. HAND AUGER AND GEOPROBE™ BORINGS (GP1-GP30) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON APRIL 26, 1995 AND MAY 22 THROUGH 24, 1995, RESPECTIVELY.
5. TEMPORARY WELLS (TW101-TW107) AND MONITORING WELLS (MW101-MW104) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON OCTOBER 26 AND 27, 1995. GEOPROBE™ BORINGS (GP31-GP35) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON NOVEMBER 15, 1995.



DRAWN BY: TAS	DATE: 10/30/95	CHECKED BY: JAG	DATE: 3/8/96	APPROVED BY: LJP	DATE: 3/8/96
<p><b>ESTIMATED EXTENT OF SOIL CONTAMINATION</b>  <b>SITE INVESTIGATION AND REMEDIAL ACTION PLAN</b>          BIOGENESIS ENTERPRISES, INC.          610 WEST RAWSON AVENUE          OAK CREEK, WISCONSIN</p>					
<p>Natural Resource Technology</p>					
PROJECT NO. 1097/3.3					
DRAWING NO. 1097-B04					
FIGURE NO. 8					

AUTOCAD FILE: 1097-B04



NOTES:

1. BASE MAP DEVELOPED FROM A DRAWING PREPARED BY NATIONAL SURVEY AND ENGINEERING, BROOKFIELD, WISCONSIN AND NORTHERN ENVIRONMENTAL, MEDUN, WISCONSIN.
2. SOIL BORINGS (SB11-SB13) AND MONITORING WELL (MW14) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF USE INVESTIGATION.
3. TEST PITS (TP1-TP6) PERFORMED BY NORTHERN ENVIRONMENTAL IN 1991 AS PART OF THE AST INVESTIGATION.
4. HAND AUGER AND GEOPROBE™ BORINGS (GP1-GP34) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON APRIL 26, 1995 AND MAY 22 THROUGH 24, 1995, RESPECTIVELY.
5. TEMPORARY WELLS (TW101-TW107) AND MONITORING WELLS (MW101-MW104) INSTALLED BY NATURAL RESOURCE TECHNOLOGY ON OCTOBER 26 AND 27, 1995. GEOPROBE™ BORINGS (GP31-GP35) PERFORMED BY NATURAL RESOURCE TECHNOLOGY ON NOVEMBER 15, 1995.

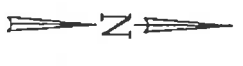
WEST RAWSON AVENUE

**LEGEND**

- +—+—+— RAILROAD
- x—x—x— FENCE
- ⊕ MW14 MONITORING WELL
- ⊕ SB11 SOIL BORING
- ⊕ TP1 TEST PIT
- ⊕ HA1 HAND AUGER
- ⊕ GP1 GEOPROBE™
- ⊕ GP2 GEOPROBE™ WITH WATER SAMPLE
- ⊕ TW101 TEMPORARY WELL

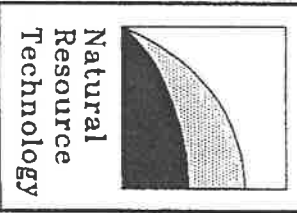
ESTIMATED EXTENT OF DRO CONCENTRATION > 1,000 UG/L

ESTIMATED EXTENT OF NR 140 GROUNDWATER ENFORCEMENT STANDARD EXCEEDANCES



**ESTIMATED EXTENT OF GROUNDWATER CONTAMINATION SITE INVESTIGATION AND REMEDIAL ACTION PLAN**  
 BIOGENESIS ENTERPRISES, INC.  
 610 WEST RAWSON AVENUE  
 OAK CREEK, WISCONSIN

DRAWN BY: TAS	DATE: 12/19/95
CHECKED BY: JAG	DATE: 3/8/96
APPROVED BY: WSP	DATE: 3/8/96
AUTOCAD FILE: 1097-B09	



PROJECT NO. 1097/3.3  
 DRAWING NO. 1097-B09  
 FIGURE NO. 9

**ATTACHMENT B**

# Usual and Customary Standardized Invoice #24

## July 2018- December 2018



RR-100a

PECFA #: 53154-1437-10  
 BRRTS #: 02-41-107191  
 Site Name: Biogenesis Enterprises, Inc.  
 Site Address: 610 W. Rawson Avenue

Vendor Name: \_\_\_\_\_  
 Invoice #: \_\_\_\_\_  
 Invoice Date: \_\_\_\_\_  
 Check #: \_\_\_\_\_

U&C Total \$ 8,371.00  
 Variance to U&C Total \$ -  
 Grand Total \$ 8,371.00

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
1	GW Sampling		GS05	Sample Collection	Well	\$ 72.45	18	\$ 1,304.10
1	GW Sampling		GS06	Sample Collection in well w/LNAPL	Well	\$ 87.45		\$ -
1	GW Sampling		GS10	Incremental Sample Collection (natural attenuation)	Well	\$ 47.67		\$ -
1	GW Sampling		GS15	Incremental Sample Collection (cadmium & lead)	Well	\$ 26.25		\$ -
1	GW Sampling		GS20	Measure Water Levels (for wells not being sampled)	Well	\$ 14.70		\$ -
1	GW Sampling		GS25	Primary Mob/Demob	Site	\$ 628.11	1	\$ 628.11
1	GW Sampling		GS30	Temporary Well Abandonment	Well	\$ 26.99		\$ -
2	O & M Reporting		OMR05	Semi-Annual GW Monitoring (Form 4400-194)	Report	\$ 823.73		\$ -
2	O & M Reporting		OMR10	Semi-Annual GW Monitoring (Form 4400-194) with LNAPL Removal per RR-628	Report	\$ 1,040.45		\$ -
3	LNAPL Assessment & Removal		LAR06	LNAPL Sample Collection (1 per site, unless otherwise direct)	Site	\$ 68.25		\$ -
3	LNAPL Assessment & Removal		LAR10	Primary Mob/Demob	Site	\$ 518.07		\$ -
4	Waste Disposal	Consultant	WD05	Consultant Coordination	Site	\$ 137.13	1	\$ 137.13
4	Waste Disposal	Commodity	WD10	GW Sample and/or Purge	Drum	\$ 42.11	1	\$ 42.11
4	Waste Disposal	Commodity	WD15	Drill Cuttings	Drum	\$ 108.15		\$ -
4	Waste Disposal	Commodity	WD17	Landfill Environmental Fee (provide documentation)	ACTUAL COST			
4	Waste Disposal	Commodity	WD20	Free Product	Drum	\$ 118.76		\$ -
4	Waste Disposal	Commodity	WD25	Primary Mob/Demob	Site	\$ 287.70		\$ -
5	Closure Request		CR05	Primary Closure Request	Submittal	\$ 2,700.00		\$ -
5	Closure Request		CR15	Continuing Obligation Packet Submittal (For Source Property)	Packet	\$ 507.36		\$ -
5	Closure Request		CR20	Continuing Obligation Packet Submittal (For off-site Properties)	Per Additional Property	\$ 222.71		\$ -
5	Closure Request		CR25	Closure Request Concurrent with SIR	Submittal	\$ 1,250.00		\$ -
6	Letter Report/Addendum		LRA05	Letter Report/Addendum	Letter	\$ 1,039.29		\$ -

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
7	Regulatory Correspondence		RC05	Regulatory Correspondence	Letter/Status Update	\$ 128.94		\$ -
8	Well Abandonment	Consultant	WAB05	Coordination	Site	\$ 162.86		\$ -
8	Well Abandonment	Consultant	WAB10	Water column < 30 ft	Ft	\$ 2.52		\$ -
8	Well Abandonment	Consultant	WAB15	Water column > 30 ft (requires pumping [s. NR 141.25 (2) (d)])	Ft	\$ 8.82		\$ -
8	Well Abandonment	Consultant	WAB20	Bentonite Pellets (50lb bag - 1/4" pellet)	Bag	\$ 10.82		\$ -
8	Well Abandonment	Consultant	WAB25	Portland Cement (94lb bag)	Bag	\$ 8.19		\$ -
8	Well Abandonment	Consultant	WAB30	Primary Mob/Demob	Site	\$ 362.25		\$ -
8	Well Abandonment	Consultant	WAB31	Primary Mob/Demob w/ vapor point abandonment	Site	\$ 512.25		\$ -
8	Well Abandonment	Consultant	WAB32	Vapor Point Abandonment	Point	\$ 79.20		\$ -
8	Well Abandonment	Commodity	WAB35	Well Abandonment Mob/Demob	Site	\$ 412.55		\$ -
8	Well Abandonment	Commodity	WAB40	Well Abandonment (2 inch)	Ft	\$ 5.57		\$ -
8	Well Abandonment	Commodity	WAB45	Well Abandonment (4 inch)	Ft	\$ 6.51		\$ -
8	Well Abandonment	Commodity	WAB50	Well Abandonment (6 inch)	Ft	\$ 7.98		\$ -
9	Investigation Workplan Preparation		IWP05	Investigation Workplan Preparation	Report	\$ 1,451.63		\$ -
10	Initial Site Survey	Consultant	IS05	Coordination of Initial Site Survey (features + well elevations)	Survey	\$ 117.18		\$ -
10	Initial Site Survey	Consultant	IS10	Subsequent Surveys	Well	\$ 110.15		\$ -
10	Initial Site Survey	Commodity	IS15	Initial Survey	Survey	\$ 1,171.70		\$ -
11	Potable Well Field Reconnaissance		PWFR05	Potable Well Field Reconnaissance	Site	\$ 583.50		\$ -
12	Direct Push	Consultant	DP05	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 5.36		\$ -
12	Direct Push	Consultant	DP10	> 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 5.99		\$ -
12	Direct Push	Consultant	DP15	GW Profiling (No Soil Sampling)	Ft	\$ 2.31		\$ -
12	Direct Push	Consultant	DP20	GW Sample Collection	Each	\$ 36.10		\$ -
12	Direct Push	Consultant	DP25	Temporary Well Installation	Each	\$ 49.90		\$ -
12	Direct Push	Consultant	DP30	Primary Mob/Demob	Site	\$ 512.10		\$ -
12	Direct Push	Commodity	DP35	0 - 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 6.93		\$ -
12	Direct Push	Commodity	DP40	> 24 ft bgs W/ Continuous Soil Sampling	Ft	\$ 9.03		\$ -
12	Direct Push	Commodity	DP45	GW Profiling (no soil sampling)	Ft	\$ 6.51		\$ -
12	Direct Push	Commodity	DP50	GW Sample Collection (cost for tubing)	Ft	\$ 0.42		\$ -
12	Direct Push	Commodity	DP55	Expendable Drive Point	Each	\$ 14.49		\$ -
12	Direct Push	Commodity	DP60	Borehole Abandonment	Ft	\$ 1.26		\$ -
12	Direct Push	Commodity	DP65	Concrete Penetration	Each	\$ 20.10		\$ -

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
12	Direct Push	Commodity	DP70	GW Sample Collection	Each	\$ 39.27	\$ -	
12	Direct Push	Commodity	DP75	Temporary Well Installation	Ft	\$ 5.25	\$ -	
12	Direct Push	Commodity	DP80	Mob/Demob (Includes decon)	Site	\$ 526.05	\$ -	
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR05	0 - 25 ft bgs	Ft	\$ 5.40	\$ -	
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR10	26 - 50 ft bgs	Ft	\$ 5.67	\$ -	
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR15	51 - 75 ft bgs	Ft	\$ 7.30	\$ -	
13.a	Drilling In Unconsolidated Soils - With Soil Sampling	Consultant	DR20	Primary Mob/Demob	Site	\$ 593.04	\$ -	
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR25	Consultant Oversight	Ft	\$ 1.58	\$ -	
13.b	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Consultant	DR30	Primary Mob/Demob	Site	\$ 505.16	\$ -	
13.c	Drilling In Bedrock	Consultant	DR35	Consultant Oversight	Ft	\$ 6.20	\$ -	
13.c	Drilling In Bedrock	Consultant	DR40	Primary Mob/Demob	Site	\$ 593.04	\$ -	
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR45	0 - 25 ft bgs	Ft	\$ 16.70	\$ -	
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR50	26 - 50 ft bgs	Ft	\$ 18.38	\$ -	
13.d	Drilling In Unconsolidated Soils - With Soil Sampling	Commodity	DR55	51 - 75 ft bgs	Ft	\$ 21.53	\$ -	
13.e	Drilling In Unconsolidated Soils - Without Soil And/Or GW Sampling	Commodity	DR60	Drilling in Unconsolidated Soils	Ft	\$ 11.97	\$ -	
13.f	Drilling In Bedrock	Commodity	DR65	Drilling in Bedrock	Ft	\$ 33.18	\$ -	
13.f	Drilling In Bedrock	Commodity	DR70	Bedrock Drilling Setup Charge	Each	\$ 162.02	\$ -	
13.f	Drilling In Bedrock	Commodity	DR75	Air Compressor	Day	\$ 426.41	\$ -	
14	Monitoring Well Installation	Consultant	MWI05	0 - 25 ft bgs	Ft	\$ 3.89	\$ -	
14	Monitoring Well Installation	Consultant	MWI10	26 - 75 ft bgs	Ft	\$ 2.73	\$ -	
14	Monitoring Well Installation	Commodity	MWI15	2 inch PVC Casing	Ft	\$ 16.70	\$ -	
14	Monitoring Well Installation	Commodity	MWI20	Well Development	Well	\$ 147.63	\$ -	
14	Monitoring Well Installation	Commodity	MWI25	Mob/Demob (For development of grout or slurry sealed wells)	Site	\$ 548.63	\$ -	
15	Misc. Drilling Activities & Supplies		MDT05	Drill Rig Mob/Demob	Mob/Demob	\$ 963.38	\$ -	
15	Misc. Drilling Activities & Supplies		MDT10	Well Cover/flushmount	Each	\$ 202.65	\$ -	
15	Misc. Drilling Activities & Supplies		MDT15	Stickup Well Cover	Each	\$ 163.91	\$ -	

TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
15	Misc. Drilling Activities & Supplies		MDT20	Bumper Guard Posts	Each	\$ 69.30	\$ -	-
15	Misc. Drilling Activities & Supplies		MDT21	Drum, 55 gal. DOT steel	Each	\$ 55.13	\$ -	-
15	Misc. Drilling Activities & Supplies		MDT25	Commodity Service Provider Per Diem (drilling and direct push)	Person	\$ 203.28	\$ -	-
15	Misc. Drilling Activities & Supplies		MDT30	Well Repair	Well	\$ 84.42	\$ -	-
15	Misc. Drilling Activities & Supplies		MDT35	Borehole Abandonment	Foot	\$ 5.46	\$ -	-
15	Misc. Drilling Activities & Supplies		MDT40	Concrete Penetration	Each	\$ 72.87	\$ -	-
15	Misc. Drilling Activities & Supplies		MDT41	Private Utility Locate	ACTUAL COST		\$ -	-
15	Misc. Drilling Activities & Supplies		MDT45	Padlocks	Each	\$ 7.98	\$ -	-
16	Hand Auger Boring		HA05	Hand Augering	Boring	\$ 89.99	\$ -	-
16	Hand Auger Boring		HA10	Primary Mob/Demob	Site	\$ 555.56	\$ -	-
17	Surface Soil/Sediment/Water Sampling		SSWS05	Sampling	Sample Location	\$ 21.53	\$ -	-
17	Surface Soil/Sediment/Water Sampling		SSWS10	Primary Mob/Demob	Site	\$ 452.45	\$ -	-
19	Hydraulic Conductivity Testing		HCT05	Hydraulic Conductivity Testing	Well	\$ 58.59	\$ -	-
19	Hydraulic Conductivity Testing		HCT10	Primary Mob/Demob	Site	\$ 652.79	\$ -	-
20	Soil Boring/Monitoring Well Permits		SBMWP05	Soil Boring/Monitoring Well Permit	Permit	\$ 246.12	\$ -	-
20	Soil Boring/Monitoring Well Permits		SBMWP10	Permit Fee (copy of permit & fee receipt required)	Permit Fee		\$ -	-
21	Access Agreements		AA05	Access Agreements	Property	\$ 401.94	\$ -	-
22	Soil Investigation Report		SIR05	Soil Investigation Report	Report	\$ 3,330.92	\$ -	-
23	Soil And GW Investigation Report		SGIR05	Soil and GW Investigation Report	Report	\$ 4,965.35	1 \$	4,965.35
24	Limited Soil Excavation	Consultant	LSE05	Consultant Oversight for Limited Soil Excavation	Ton	\$ 4.94	\$ -	-
24	Limited Soil Excavation	Consultant	LSE10	Primary Mob/Demob	Site	\$ 831.92	\$ -	-
24	Limited Soil Excavation	Commodity	LSE13	Laboratory (see task 24 total on Lab Schedule)	Lab Schedule		0 \$	-
24	Limited Soil Excavation	Commodity	LSE15	Limited Soil Excavation	Ton	\$ 60.00	\$ -	-
24	Limited Soil Excavation	Commodity	LSE16	Landfill Environmental Fee (provide documentation)	ACTUAL COST		\$ -	-
25	Remediation System Shut Down		SSD05	Permanent	Site	\$ 1,095.47	\$ -	-
25	Remediation System Shut Down		SSD10	Temporary	Site	\$ 329.28	\$ -	-
25	Remediation System Shut Down		SSD15	Primary Mob/Demob	Site	\$ 473.55	\$ -	-
27	Claim Submittal		CS05	Claim Submittal	Claim	\$ 585.90	\$ -	-
28	Standardized Invoice		BS05	Standardized Invoice	Invoice	\$ 17.64	\$ -	-
30	Meeting With Regulators		MR05	Meeting with Regulators	Meeting	\$ 349.23	\$ -	-
31	Consultant Overnight Per Diem		COPD05	Overnight	Night	\$ 113.72	\$ -	-



TASK	TASK DESCRIPTION	SERVICES	ACTIVITY CODE	ACTIVITY REFERENCE CODE DESCRIPTION	UNIT	MAX UNIT COST	UNITS	TOTAL MAX
33	Schedule Of Laboratory Maximums	Commodity		Laboratory (see task 33 total on Lab Schedule)	Lab Schedule			\$ 1,007.02
34	Consultant Incremental Mob/Demob		IMD05	Incremental Mob/Demob	Site	\$ 287.18	1	\$ 287.18
35	Cap Maintenance Plan		CMP05	Cap Maintenance Plan	Plan	\$ 320.04		\$ -
36	Change Order Request		COR05	Change Order Request (cost cap exceedance requests)	Change Order	\$ 381.78		\$ -
37	Vapor Point Installation & Sampling		VIS05	Installation & Sampling (up to 5 points)	Point	\$ 504.78		\$ -
37	Vapor Point Installation & Sampling		VIS10	Mob/Demob (up to 5 points)	Site	\$ 739.95		\$ -
Variance								
Variance								



# Usual and Customary Standardized Invoice #24

## July 2018- December 2018



RR-100A

TOTAL LAB CHARGES ##### TASK 33 14 ##### TASK 24 0 \$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	\$ 44.94		\$ -			
AIR	A2	BETX	SAMPLE	\$ 49.46		\$ -			
AIR	A3	GRO	SAMPLE	\$ 46.10		\$ -			
AIR	A4	VOC's	SAMPLE	\$ 71.93		\$ -			
WATER	W1	GRO/PVOC	SAMPLE	\$ 29.19		\$ -			
WATER	W2	PVOC	SAMPLE	\$ 26.99		\$ -			
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$ 43.79		\$ -			
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 30.35		\$ -			
WATER	W5	VOC	SAMPLE	\$ 71.93	14	\$ 1,007.02			
WATER	W6	PAH	SAMPLE	\$ 72.98		\$ -			
WATER	W7	Lead	SAMPLE	\$ 12.39		\$ -			
WATER	W8	Cadmium	SAMPLE	\$ 13.55		\$ -			
WATER	W9	Hardness	SAMPLE	\$ 12.39		\$ -			
WATER	W10	BOD, Total	SAMPLE	\$ 23.63		\$ -			
WATER	W11	Nitrate	SAMPLE	\$ 11.24		\$ -			
WATER	W12	Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			
WATER	W13	Ammonia	SAMPLE	\$ 16.91		\$ -			
WATER	W14	Sulfate	SAMPLE	\$ 10.19		\$ -			
WATER	W15	Iron	SAMPLE	\$ 10.19		\$ -			
WATER	W16	Manganese	SAMPLE	\$ 10.19		\$ -			
WATER	W17	Alkalinity	SAMPLE	\$ 10.19		\$ -			
WATER	W18	methane	SAMPLE	\$ 46.10		\$ -			
WATER	W19	Phosphorous	SAMPLE	\$ 18.06		\$ -			
WATER	W20	VOC Method 524.2	SAMPLE	\$ 176.30		\$ -			
WATER	W21	EDB Method 504	SAMPLE	\$ 95.45		\$ -			
							MAX COST	SAMPLES	TOTAL
SOILS	S1	GRO	SAMPLE	\$ 24.78		\$ -	\$ 24.78		\$ -
SOILS	S2	DRO	SAMPLE	\$ 30.35		\$ -	\$ 30.35		\$ -
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.14		\$ -	\$ 28.14		\$ -
SOILS	S4	PVOC	SAMPLE	\$ 25.83		\$ -	\$ 25.83		\$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 49.46		\$ -	\$ 49.46		\$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 36.02		\$ -	\$ 36.02		\$ -
SOILS	S7	VOC	SAMPLE	\$ 71.93		\$ -	\$ 71.93		\$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 50.61		\$ -	\$ 50.61		\$ -
SOILS	S9	PAH	SAMPLE	\$ 72.98		\$ -	\$ 72.98		\$ -
SOILS	S10	Lead	SAMPLE	\$ 12.39		\$ -	\$ 12.39		\$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
SOILS	S11	Cadmium	SAMPLE	\$ 14.60		\$ -			
SOILS	S12	Free Liquid	SAMPLE	\$ 11.24		\$ -			
SOILS	S13	Flash Point	SAMPLE	\$ 25.83		\$ -			
SOILS	S14	Grain Size - dry	SAMPLE	\$ 42.74		\$ -			
SOILS	S15	Grain Size - wet	SAMPLE	\$ 57.33		\$ -			
SOILS	S16	Bulk Density	SAMPLE	\$ 13.55		\$ -			
SOILS	S17	Permeability	SAMPLE	\$ 41.58		\$ -			
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$ 16.91		\$ -			
SOILS	S20	% Organic Matter	SAMPLE	\$ 29.19		\$ -			
SOILS	S21	TOC as NPOC	SAMPLE	\$ 57.33		\$ -			
SOILS	S22	Soil Moisture Content	SAMPLE	\$ 6.83		\$ -			
SOILS	S23	Air Filled Porosity	SAMPLE	\$ 25.83		\$ -			
SOILS	S24	% Total Solids	SAMPLE	\$ 6.83		\$ -			
SOILS	S25	Field Capacity	SAMPLE	\$ 28.14		\$ -			
SOILS	S26	TCLP Lead	SAMPLE	\$ 83.16		\$ -			
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$ 26.99		\$ -			
SOILS	S28	TCLP Cadmium	SAMPLE	\$ 83.16		\$ -			
SOILS	S29	TCLP Benzene	SAMPLE	\$ 83.16		\$ -			
		Viscosity + Density							
LNAPL	LFPS01	Interfacial tension I (LNAPL/water [dyne/cm])	SAMPLE	\$ 561.33		\$ -			
		Interfacial tension II (LNAPL/air [dyne/cm])							
		Interfacial tension III (water/air) [dyne/cm])							
						<b>TASK 24 TOTAL \$ -</b>			
						<b>TASK 33 TOTAL \$ 1,007.02</b>			

# Usual and Customary Standardized Invoice #24

## July 2018- December 2018



RR-100A

TOTAL LAB CHARGES \$ 1,007.02 TASK 33 14 \$ 1,007.02 TASK 24 0 \$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
AIR	A1	Benzene	SAMPLE	\$ 44.94		\$ -			
AIR	A2	BETX	SAMPLE	\$ 49.46		\$ -			
AIR	A3	GRO	SAMPLE	\$ 46.10		\$ -			
AIR	A4	VOC's	SAMPLE	\$ 71.93		\$ -			
WATER	W1	GRO/PVOC	SAMPLE	\$ 29.19		\$ -			
WATER	W2	PVOC	SAMPLE	\$ 26.99		\$ -			
WATER	W3	PVOC + 1,2 DCA	SAMPLE	\$ 43.79		\$ -			
WATER	W4	PVOC + Naphthalene	SAMPLE	\$ 30.35		\$ -			
WATER	W5	VOC	SAMPLE	\$ 71.93	14	\$ 1,007.02			
WATER	W6	PAH	SAMPLE	\$ 72.98		\$ -			
WATER	W7	Lead	SAMPLE	\$ 12.39		\$ -			
WATER	W8	Cadmium	SAMPLE	\$ 13.55		\$ -			
WATER	W9	Hardness	SAMPLE	\$ 12.39		\$ -			
WATER	W10	BOD, Total	SAMPLE	\$ 23.63		\$ -			
WATER	W11	Nitrate	SAMPLE	\$ 11.24		\$ -			
WATER	W12	Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			
WATER	W13	Ammonia	SAMPLE	\$ 16.91		\$ -			
WATER	W14	Sulfate	SAMPLE	\$ 10.19		\$ -			
WATER	W15	Iron	SAMPLE	\$ 10.19		\$ -			
WATER	W16	Manganese	SAMPLE	\$ 10.19		\$ -			
WATER	W17	Alkalinity	SAMPLE	\$ 10.19		\$ -			
WATER	W18	methane	SAMPLE	\$ 46.10		\$ -			
WATER	W19	Phosphorous	SAMPLE	\$ 18.06		\$ -			
WATER	W20	VOC Method 524.2	SAMPLE	\$ 176.30		\$ -			
WATER	W21	EDB Method 504	SAMPLE	\$ 95.45		\$ -			
							MAX COST	SAMPLES	TOTAL
SOILS	S1	GRO	SAMPLE	\$ 24.78		\$ -	\$ 24.78		\$ -
SOILS	S2	DRO	SAMPLE	\$ 30.35		\$ -	\$ 30.35		\$ -
SOILS	S3	GRO/PVOC	SAMPLE	\$ 28.14		\$ -	\$ 28.14		\$ -
SOILS	S4	PVOC	SAMPLE	\$ 25.83		\$ -	\$ 25.83		\$ -
SOILS	S5	PVOC + 1,2 DCA + Naphthalene	SAMPLE	\$ 49.46		\$ -	\$ 49.46		\$ -
SOILS	S6	PVOC + Naphthalene	SAMPLE	\$ 36.02		\$ -	\$ 36.02		\$ -
SOILS	S7	VOC	SAMPLE	\$ 71.93		\$ -	\$ 71.93		\$ -
SOILS	S8	SPLP Extraction VOC only	SAMPLE	\$ 50.61		\$ -	\$ 50.61		\$ -
SOILS	S9	PAH	SAMPLE	\$ 72.98		\$ -	\$ 72.98		\$ -
SOILS	S10	Lead	SAMPLE	\$ 12.39		\$ -	\$ 12.39		\$ -

MATRIX	REF CODE	REIMBURSABLE ANALYTE	UNITS	MAX COST	SAMPLES	TOTAL	MAX COST	SAMPLES	TOTAL
SOILS	S11	Cadmium	SAMPLE	\$ 14.60		\$ -			
SOILS	S12	Free Liquid	SAMPLE	\$ 11.24		\$ -			
SOILS	S13	Flash Point	SAMPLE	\$ 25.83		\$ -			
SOILS	S14	Grain Size - dry	SAMPLE	\$ 42.74		\$ -			
SOILS	S15	Grain Size - wet	SAMPLE	\$ 57.33		\$ -			
SOILS	S16	Bulk Density	SAMPLE	\$ 13.55		\$ -			
SOILS	S17	Permeability	SAMPLE	\$ 41.58		\$ -			
SOILS	S18	Nitrogen as Total Kjeldahl	SAMPLE	\$ 20.27		\$ -			
SOILS	S19	Nitrogen as Ammonia	SAMPLE	\$ 16.91		\$ -			
SOILS	S20	% Organic Matter	SAMPLE	\$ 29.19		\$ -			
SOILS	S21	TOC as NPOC	SAMPLE	\$ 57.33		\$ -			
SOILS	S22	Soil Moisture Content	SAMPLE	\$ 6.83		\$ -			
SOILS	S23	Air Filled Porosity	SAMPLE	\$ 25.83		\$ -			
SOILS	S24	% Total Solids	SAMPLE	\$ 6.83		\$ -			
SOILS	S25	Field Capacity	SAMPLE	\$ 28.14		\$ -			
SOILS	S26	TCLP Lead	SAMPLE	\$ 83.16		\$ -			
SOILS	S27	Cation Exchange (Ca, MG, & K)	SAMPLE	\$ 26.99		\$ -			
SOILS	S28	TCLP Cadmium	SAMPLE	\$ 83.16		\$ -			
SOILS	S29	TCLP Benzene	SAMPLE	\$ 83.16		\$ -			
		Viscosity + Density							
LNAPL	LFPS01	Interfacial tension I (LNAPL/water [dyne/cm])	SAMPLE	\$ 561.33		\$ -			
		Interfacial tension II (LNAPL/air [dyne/cm])							
		Interfacial tension III (water/air) [dyne/cm])							
						<b>TASK 33 TOTAL \$</b>	<b>1,007.02</b>		

TASK 24 TOTAL \$ -