



August 3, 2010

Ms. Vickie Taddy
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313-6727

Subject: USH 141 – CTH N to Menomonee River, Niagara, Wisconsin - Special Provisions,
WisDOT Project ID #9560-02-01/72

Dear Ms. Taddy:

The purpose of this letter is to provide the Wisconsin Department of Natural Resources (WDNR) with the Special Provisions for the management of contaminated soil for the USH 141 project in Niagara, Wisconsin. Attached to this letter are background information (Attachment 1) and Special Provisions (Attachment 2).

Background

The Wisconsin Department of Transportation (WisDOT) is planning to reconstruct USH 141 in Niagara, Wisconsin (see attached highway plans in the background information). The construction of USH 141 includes curb and gutter, pavement, and new underground utilities (including storm sewer).

Information reported by JT Engineering, Inc., in a Phase 1 investigation report, indicated that there were sites within the construction limits that may have impacted the soil and/or groundwater. One property was identified in the Phase 1 report and within the revised construction limits as being potential hazardous materials site within the construction corridor:

- Jerry's 76 Automotive (1200 Roosevelt Road) Station 253+75 to 255+00 from 15 feet right of reference line to construction limits right.

A Phase 2 investigation was completed by Coleman Engineering Company at Jerry's 76 Automotive. Various PVOCs and PAHs exceeded NR 720 and suggested RCLs in soil. This report has not yet been submitted to the WDNR and summary information is attached to this letter in Attachment 1. We ask that the WDNR review the report information.

Information from previous investigations for CITGO Quik Food Mart (408 Roosevelt Road) site indicated contamination is beyond limits at Station 252+00 to 253+00 from reference line right to construction limits.

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Soil Management Plan

On the basis of the results of previous investigations petroleum-impacted soil is likely present at the following location within the USH 141 construction limits:

- Jerry's 76 Automotive (1200 Roosevelt Road) Station 253+75 to 255+00 from 15 feet right of reference line to construction limits right.

RMT recommends that the soil excavated for construction of the utilities at the above locations be field-screened by an environmental consultant during excavation to determine appropriate reuse or disposal. Most of the soil excavated from these locations is expected to have low-level impacts and to be suitable for reuse as backfill in the excavation from which it came. Excess low-level impacted soil that cannot be reused as backfill and soil identified by the environmental consultant as having petroleum contamination will require disposal at a WDNR-approved treatment and disposal facility. Petroleum contamination will be determined based on field-screening, and all soil with significant staining and elevated PID readings (for example, PID readings greater than 10 ppm) will be considered significantly impacted and managed as contaminated soil for off-site treatment and disposal.

RMT estimates approximately 100 tons of petroleum-contaminated soil will require off-site treatment and disposal, at a unit cost of approximately \$70 per ton. This quantity is based on the assumption that some of the sandy soils containing low-level contamination can be reused as backfill. The WisDOT project engineer will determine if excavated material is suitable geotechnically for reuse as backfill.

Groundwater Monitoring Wells

It is anticipated that active groundwater monitoring wells will be located within construction limits at the intersection of USH 141(Roosevelt Road) and Washington Avenue as indicated on the plans. Such monitoring wells should be protected during construction. If active groundwater monitoring wells are encountered during construction that conflict with planned construction, notify the engineer. The environmental consultant will determine if monitoring wells need to be maintained.

WDNR Concurrence Request

We ask that this report and the attached Special Provisions (Attachment 2) be reviewed by the WDNR as the Excavation Management Plan. We would appreciate the WDNR's concurrence with the Special Provisions by August 31, so that comments can be incorporated into the final Plans, Specifications, and Estimates (PS&E).

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Wisconsin Department of Natural Resources
August 3, 2010
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If you have any questions, please feel free to contact me at 608-662-5274.

Sincerely,

RMT, Inc.



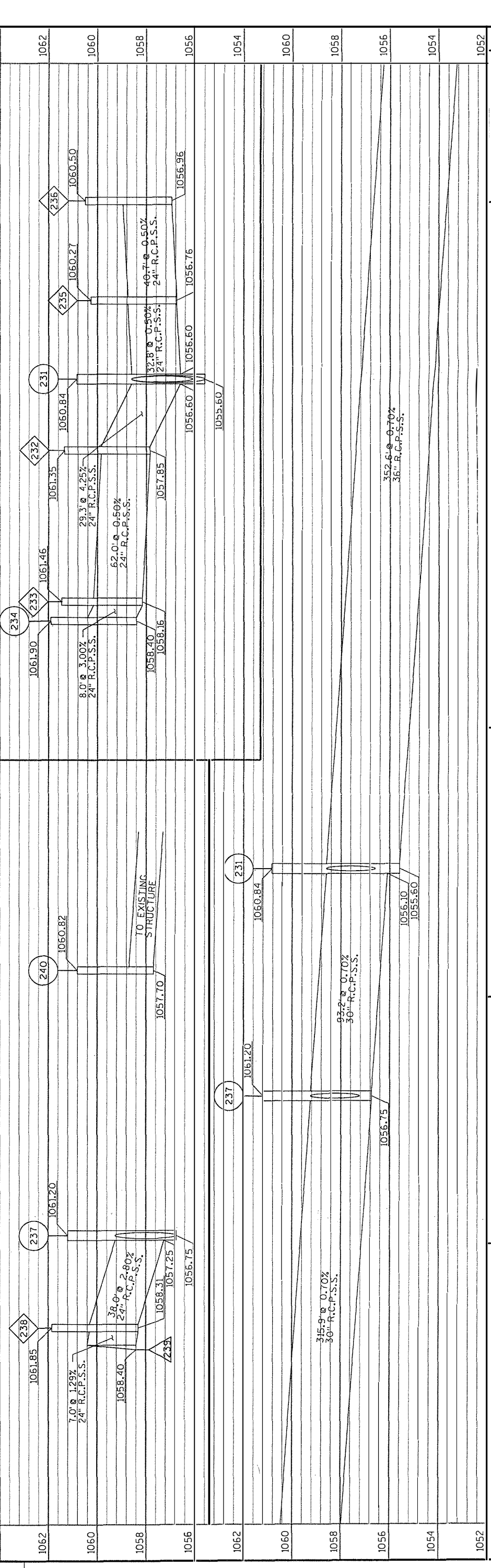
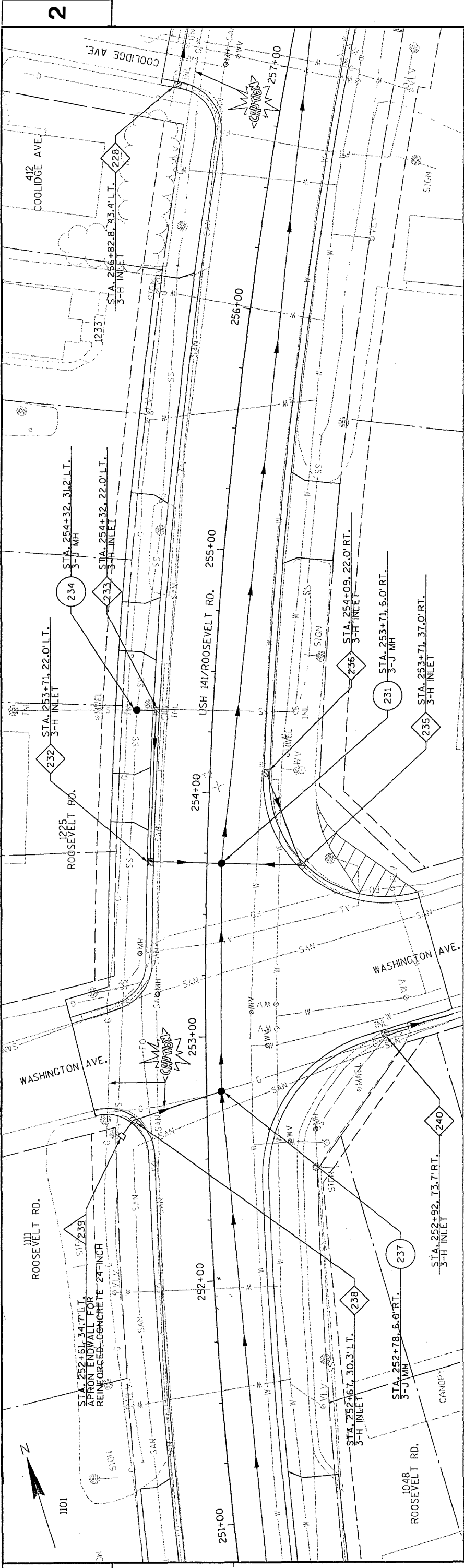
Daniel Haak
Project Engineer

Attachments: Attachment 1 – Background Information
Attachment 2 – Special Provisions

cc: Kathie VanPrice – WisDOT (hard copy and pdf on CD)
Shar TeBeest – WisDOT (hard copy and pdf on CD)
Dick Fish – RMT (pdf on CD)

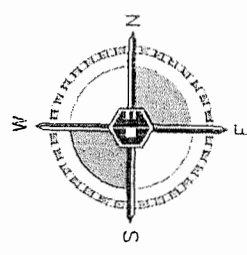
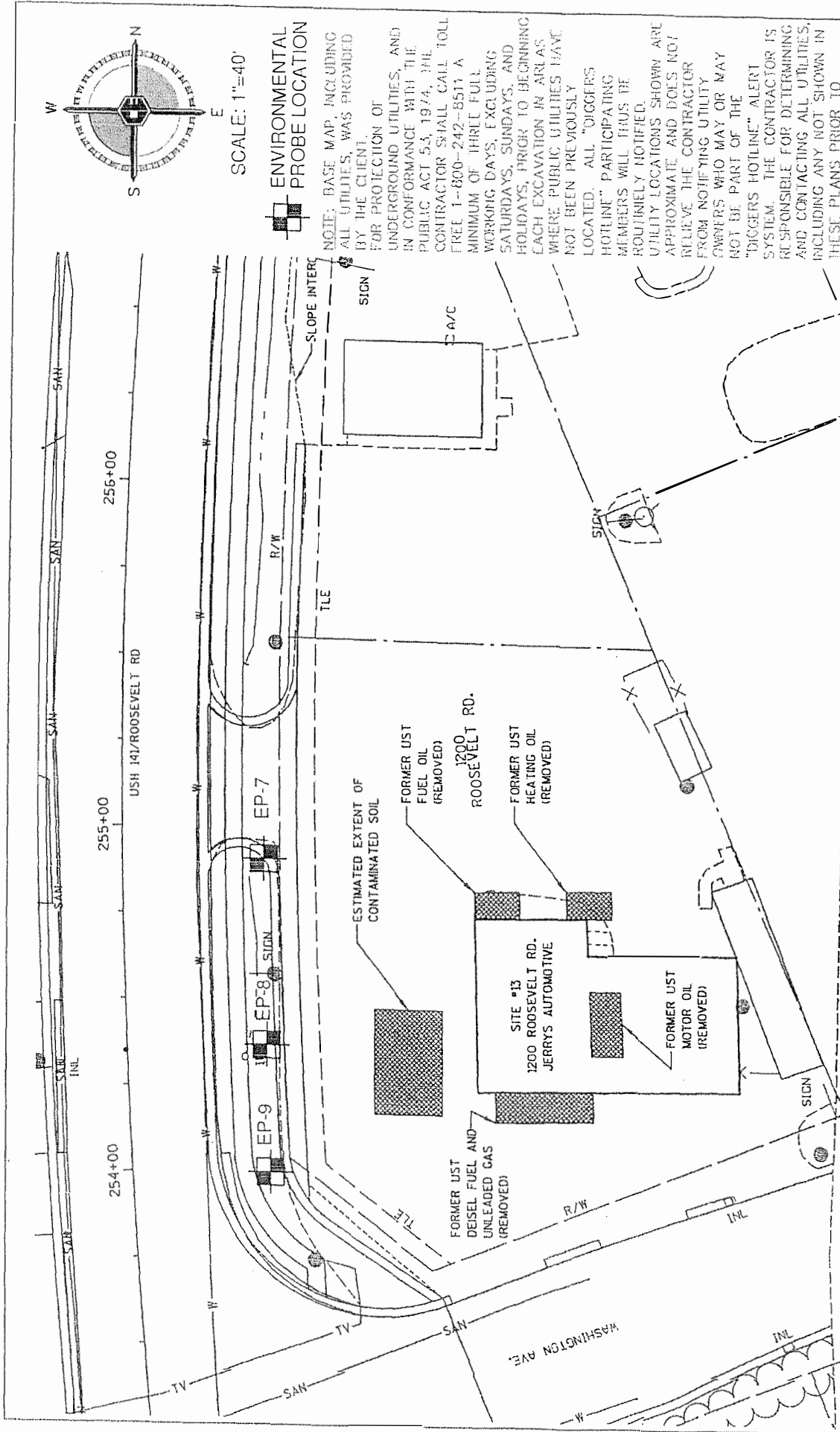
Attachment 1
Background Information

Highway Plans



1062	1060	1058	1056	1062	1060	1058	1056	1054	1052
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Jerry's 76 Automotive



SCALE: 1" = 40'



ENVIRONMENTAL PROBE LOCATION

NOTE: BASE MAP, INCLUDING ALL UTILITIES, WAS PROVIDED BY THE CLIENT. FOR PROTECTION OF UNDERGROUND UTILITIES, AND IN CONFORMANCE WITH THE PUBLIC ACT 53, 1974, THE CONTRACTOR SHALL CALL TOLL FREE 1-800-242-8511 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS, PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. ALL "DIGGERS HOTLINE" PARTICIPATING MEMBERS WILL THUS BE ROUTINELY NOTIFIED. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND DOES NOT RELIEVE THE CONTRACTOR FROM NOTIFYING UTILITY OWNERS WHO MAY OR MAY NOT BE PART OF THE "DIGGERS HOTLINE" ALERT SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND CONTACTING ALL UTILITIES, INCLUDING ANY NOT SHOWN IN THESE PLANS PRIOR TO BEGINNING ANY CONSTRUCTION.

FIGURE 2A - SOIL BORING LOCATION MAP
 1200 ROOSEVELT RD. - JERRY'S AUTOMOTIVE
 ONEIDA TOTAL INTEGRATED ENTERPRISES
 USH-141 PHASE 2 INVESTIGATION
 NIAGARA, WI

DATE 6/18/09
 JOB NO 08469
 CADD FILE 08469 BORELOC.DWG
 PDF FILE 08469 BORELOC-13.PDF





COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 08469.GPJ

PROJECT: USH-141 Phase II Investigation, Niagara, WI

BORING NO.: EP-7

CLIENT: Oneida Total Integrated Enterprises

1 OF 1

BORING LOCATION: Refer to boring location drawing

ELEV.: _____

RIG TYPE: Geoprobe 66 DT

DRILL CREW: J. Lantagne / C. Saari

DRILLING METHOD: 2" Macrocore

BORING DEPTH: 17.0

DATE STARTED: May 7, 09

DATE COMPLETED: May 7, 09

REVIEWED BY: S. Trebilcock

DATE: 5/15/09

HOLE CLOSURE: Bentonite Chips

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS					
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	Q _a (tsf)	
1	(-)	-		0	TOPSOIL			PID = 0.0 ppm						
				1	SAND, brown, fine, poorly graded, moist	0.25'								
				2										
				3				PID = 0.0 ppm						
				4										
2	(-)	-		5	...trace gravel									
				6				PID = 0.0 ppm						
				7										
				8										
				9										
3	(-)	-		10										
				11										
				12	GRAVEL, brown, fine, some sand, moist	± 12.0'		PID = 0.0 ppm						
				13										
				14	SAND, brown, fine, some gravel, moist	± 14.0'		PID = 0.0 ppm						
4	(-)	-		15										
				16	...fine to medium, trace gravel			PID = 0.0 ppm						
				17	End of Boring	17.0'								
				18										
				19										
				20										

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core

- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon

- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube

- while drilling
- after drilling

after hours

BORING NO.: EP-7



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635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 08469.GPJ

PROJECT: USH-141 Phase II Investigation, Niagara, WI

BORING NO.: EP-8

CLIENT: Oneida Total Integrated Enterprises

1 OF 1

BORING LOCATION: Refer to boring location drawing

ELEV.: _____

RIG TYPE: Geoprobe 66 DT

DRILL CREW: J. Lantagne / C. Saari

DRILLING METHOD: 2" Macrocore

BORING DEPTH: 17.0

DATE STARTED: May 7, 09

DATE COMPLETED: May 7, 09

REVIEWED BY: S. Trebilcock

DATE: 5/15/09

HOLE CLOSURE: Bentonite Chips

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS					
NUMBER	SPT VALUES BLOWS/6" (N)	RECOVERY	LEGEND						+4 -200	MOISTURE CONTENT (%)	LL PL	T (tsf)	q _a (tsf)	
1	(-)	-		0	TOPSOIL			PID = 0.0 ppm						
				1	SAND, brown, fine, moist	0.25'								
				2				PID = 0.0 ppm						
				3										
2	(-)	-		5	...some gravel			PID = 0.0 ppm						
				6										
				7				PID = 0.0 ppm						
				8										
				9				PID = 0.0 ppm						
3	(-)	-		10	...trace gravel									
				11				PID = 0.0 ppm						
				12										
				13										
				14				PID = 303 ppm						
4	(-)	-		15	...petroleum odor									
				16										
				17	End of Boring	17.0'		PID = 498 ppm						
				18										
				19										
				20										

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core

- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon

- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube

- while drilling
- after drilling

after hours

BORING NO.: EP-8

9



COLEMAN ENGINEERING COMPANY

635 CIRCLE DRIVE
 IRON MOUNTAIN, MICHIGAN 49801
 Telephone: (906)-774-3440 Fax: (906)-774-7776

JOB NO.: 08469.GPJ

PROJECT: USH-141 Phase II Investigation, Niagara, WI

BORING NO.: EP-9

CLIENT: Oneida Total Integrated Enterprises

1 OF 1

BORING LOCATION: Refer to boring location drawing

ELEV.: _____

RIG TYPE: Geoprobe 66 DT

DRILL CREW: J. Lantagne / C. Saari

DRILLING METHOD: 2" Macrocore

BORING DEPTH: 19.0

DATE STARTED: May 7, 09

DATE COMPLETED: May 7, 09

REVIEWED BY: S. Trebilcock

DATE: 5/15/09

HOLE CLOSURE: Bentonite Chips

SAMPLE				DEPTH (FT)	SOIL DESCRIPTION	WATER TABLE	ELEV. (FT)	COMMENTS	TEST RESULTS									
NUMBER	SPT VALUES BLOWS/6"(N)	RECOVERY	LEGEND						+4	-4	-200	MOISTURE CONTENT (%)	LL	PL	T (tsf)	q _a (tsf)		
1	(-)	-		0	TOPSOIL													
				0.25'														
				1	SAND, brown, fine to medium, some organics, moist			PID = 0.0 ppm										
				2														
				3														
				4														
2	(-)	-		5	...fine			PID = 0.0 ppm										
				6														
				7				PID = 0.0 ppm										
				8														
				9														
3	(-)	-		10				PID = 0.0 ppm										
				11														
				12														
				13				PID = 0.0 ppm										
				14														
4	(-)	-		15				PID = 0.0 ppm										
				16														
				17														
				18				PID = 0.0 ppm										
				19														
				19.0'	End of Boring													

- AS-Auger Sample
- BS-Bag Sample
- RC-Rock-Core
- GS-Grab Sample
- PS-Piston Tube
- 2SS-2" Split Spoon
- 3SS-3" Split Spoon
- 2ST-2" Shelby Tube
- 3ST-3" Shelby Tube
- while drilling
- after drilling

after hours

BORING NO.: EP-9

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TABLE 1
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS

Jerry's Automotive
1200 Roosevelt Road
141 USH - Niagara Site
Niagara, Wisconsin

Volatile Organic Compounds (VOCs)				VOCs Micrograms per Kilogram (ug/Kg)											
Sample Location	Sample ID	Sample Depth	Sample Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	2-butanone (MEK)	Methylene Chloride	Naphthalene	p-Isopropyltoluene	n-Butylbenzene	sec-Butylbenzene	1,1,1-Trichloroethane	1,2,3-Trimethylbenzene
Jerry's Automotive	EP-7 (13-15)	13-15 feet	5/7/2009	<21.0	<15.0	<79.0	<30.0	180**	53**	<26	<11	<16	<13	<34	<13
Jerry's Automotive	EP-8 (15-17)	15-17 feet	5/7/2009	<18.0	19,000	12,000	140,000	<150	<33	NA	10,000	9,200	4,000	140	30,000
Jerry's Automotive	EP-9 (15-17)	15-17 feet	5/7/2009	<18.0	<13.0	<68.0	<26.0	260**	<34	<23	<9.9	<14	<11	<29	<11
RCLs - Protection of Groundwater (Non-Industrial)				5.5	2,900	1,500	4,100	NS	NS	700	NS	NS	NS	NS	NS

Polynuclear Aromatic Hydrocarbons (PAHs)				PAHs (ug/kg)											
Sample Location	Sample ID	Sample Depth	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene
Jerry's Automotive	EP-7 (13-15)	13-15 feet	5/7/2009	<10	<10	<8	<8.6	<9.2	<13	<8.9	<11	<11	<9.3	<7.6	<11
Jerry's Automotive	EP-8 (15-17)	15-17 feet	5/7/2009	80	<10	44	<8.6	<9.2	<13	<8.9	<11	<11	<9.3	<7.6	100
Jerry's Automotive	EP-9 (15-17)	15-17 feet	5/7/2009	<10	<10	<8	<8.6	<9.2	<13	<8.9	<11	<11	<9.3	<7.6	<11
RCLs - Groundwater Pathway				38,800	700	3,000,000	17,000	48,000	360,000	6,800,000	870,000	37,000	38,000	500,000	100,000
RCLs - Direct Contact Pathway (Non-Industrial)				900,000	18,000	5,000,000	88	8.8	8.8	1,800	880	8,800	8.8	600,000	600,000

Notes:

RCL = Residual Contaminant Level

< = Results are less than the LOD.

Bolded results exceed Chapter NR 720 Soil Cleanup Standards

NS = No Chapter NR720 Soil Cleanup Standard

* = Not analyzed or no data available.

** = Likely laboratory artifacts

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

Laboratory Footnotes:

LOD = Limit of Detection

LOQ = Limit of Quantification

J = Analyte detected between LOD and LOQ.

Q = The analyte has been detected between the limit of detection (LOD) and the limit of quantification (LOQ). The results are qualified due to the uncertainty of the analyte concentrations within this range.

TABLE 1
SUMMARY OF DETECTED SOIL ANALYTICAL RESULTS

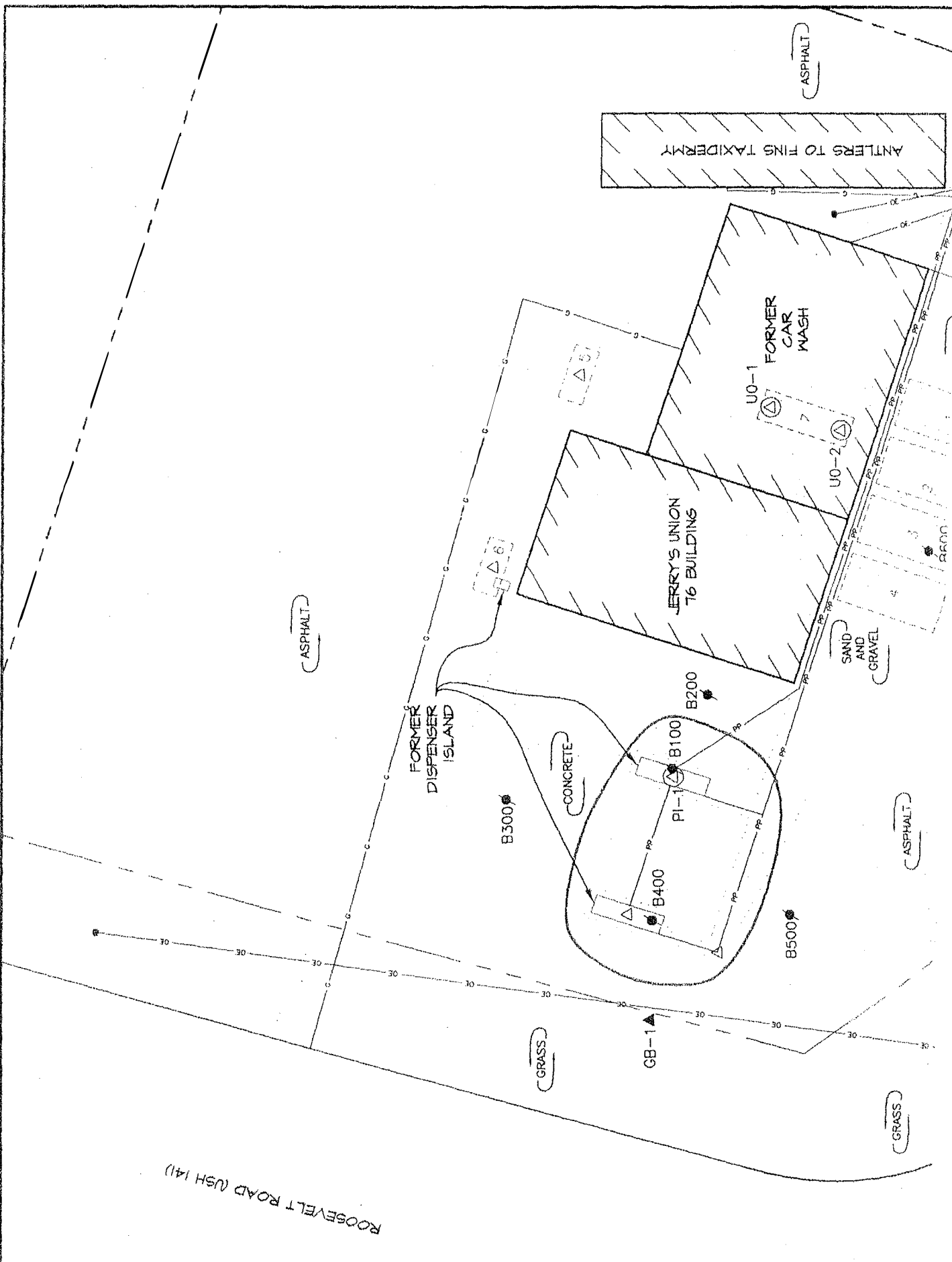
Jerry's Automotive
1200 Roosevelt Road
141 USH - Niagara Site
Niagara, Wisconsin

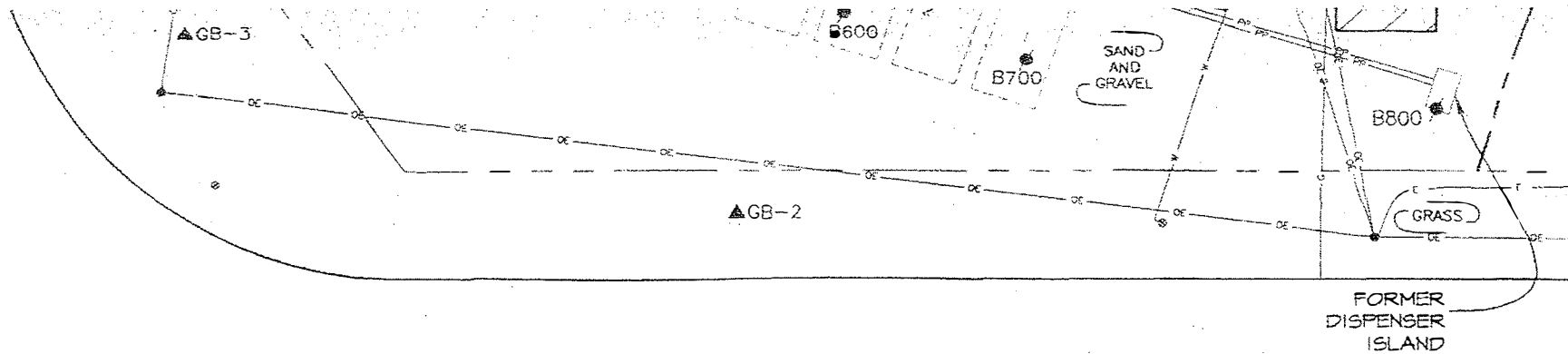
Volatile Organic Compounds (VOCs)				VOCs (ug/kg)		GRO
Sample Location	Sample ID	Sample Depth	Sample Date	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	GRO
Jerry's Automotive	EP-7 (13-15)	13-15 feet	5/7/2009	<11	<14	<2,100
Jerry's Automotive	EP-8 (15-17)	15-17 feet	5/7/2009	170,000	49,000	950,000
Jerry's Automotive	EP-9 (15-17)	15-17 feet	5/7/2009	<9.7	<11	<1,900
RCLs - Protection of Groundwater (Non-Industrial)				NS	NS	100,000

Polynuclear Aromatic Hydrocarbons (PAHs)				PAHs (ug/kg)						DRO
Sample Location	Sample ID	Sample Depth	Sample Date	Indeno(1,2,3-cd) pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	DRO
Jerry's Automotive	EP-7 (13-15)	13-15 feet	5/7/2009	<9.9	*	*	<8.1	<8.7	<10	1,300
Jerry's Automotive	EP-8 (15-17)	15-17 feet	5/7/2009	<9.9	*	*	3,700	110	40	1,400,000
Jerry's Automotive	EP-9 (15-17)	15-17 feet	5/7/2009	<9.9	*	*	<8.1	<8.7	<10	3,100
RCLs - Groundwater Pathway				680,000	23,000	20,000	400	1,800	8,700,000	100,000
RCLs - Direct Contact Pathway (Non-Industrial)				88	1,100,000	600,000	20,000	18,000	500,000	NS

Notes:
RCL = Residual Contaminant Level
< = Results are less than the LOD
Bolded results exceed Chapter NR 720 Soil Cleanup Standards
NS = No Chapter NR720 Soil Cleanup Standard
* = Not analyzed or no data available.
**=Likely laboratory artifacts
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
Laboratory Footnotes:
LOD = Limit of Detection
LOQ = Limit of Quantification
J = Analyte detected between LOD and LOQ.
Q = The analyte has been detected between the limit of detection (LOD) and the limit of quantification (LOQ).

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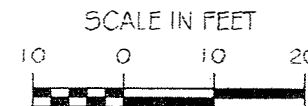




LEGEND

- B100 SOIL BORING LOCATION
- PP — APPROXIMATE FORMER PRODUCT LINE
- E — APPROXIMATE UNDERGROUND ELECTRIC LINE
- OE — APPROXIMATE OVERHEAD ELECTRIC LINE
- C — APPROXIMATE NATURAL GAS LINE
- W — APPROXIMATE WATER LINE
- — — — — APPROXIMATE RIGHT-OF-WAY
- — — — — APPROXIMATE PROPERTY BOUNDARY
- BOUNDARY BETWEEN DIFFERING SURFACE MATERIALS
- ▲ GB-1 SOIL BORING INSTALLED BY ADVENT ENVIRONMENTAL DURING 1993
- △ UST CLOSURE ASSESSMENT SAMPLE LOCATION COLLECTED FOR FIELD SCREENING ONLY
- ⊙ U0-1 UST CLOSURE ASSESSMENT SAMPLE LOCATION COLLECTED FOR FIELD SCREENING AND LABORATORY ANALYSIS

- — — — — ESTIMATED EXTENT OF PETROLEUM COMPOUNDS IN SOIL EXCEEDING GENERIC RESIDUAL CONTAMINANT LEVELS (RCLs)
- UTILITY POLE
- ⊙ WATER VALVE
- # FORMER UST LOCATION
- UST 1 = 10,000 GALLON DIESEL FUEL
- UST 2 = 10,000 GALLON UNLEADED GASOLINE
- UST 3 = 10,000 GALLON DIESEL FUEL
- UST 4 = 10,000 GALLON UNLEADED PREMIUM
- UST 5 = 500 GALLON HEATING OIL
- UST 6 = 500 GALLON FUEL OIL
- UST 7 = 1,000 GALLON USED MOTOR OIL



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Northern Environmental SM
Hydrologists • Engineers • Geologists

954 Circle Drive, Green Bay, Wisconsin
Phone: 800-554-0606 Fax 920-592-8444
Website: www.northernenvironmental.com

WISCONSIN ▲ MICHIGAN ▲ ILLINOIS ▲ IOWA

SOIL BORING LOCATIONS AND ESTIMATED EXTENT OF SOIL CONTAMINATION

FORMER JERRY'S UNION 76
NIAGARA, WISCONSIN

CREATION DATE: 12/22/04

DRAWN BY: KRE

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Table 1 Soil Field Screening Results, Former Jerry's Union 76, Niagara, Wisconsin

Boring Number	Sample Number	Sample Depth (feet)	Sample Petroleum Odor	Sample Description	Date Collected	PID Headspace Analysis		
						Time Collected	Time Analyzed	PID Response (IU)
B100	*S101	2.5-4.5	Gasoline	Sand, fine to medium grained	8/2/2004	915	950	471
	S102	5-7	Gasoline	Sand, fine to medium grained	8/2/2004	919	1002	470
	*S103	7.5-9.5	Gasoline	Sand, fine to medium grained	8/2/2004	923	1015	471
	S104	10-12	Gasoline	Sand, fine to medium grained	8/2/2004	928	1047	434
	S105	12.5-14.5	Weathered gasoline	Sand, fine to medium grained	8/2/2004	940	1049	296
	S106	15-17	Slight gasoline	Sand, fine to medium grained	8/2/2004	945	1051	193
	S107	17.5-19.5	Slight gasoline	Sand, medium to coarse grained; some gravel	8/2/2004	949	1052	10
	S108	20-22	Slight gasoline	Sand, medium to coarse grained; some gravel	8/2/2004	953	1052	5
	S109	22.5-24.5	None	Sand, medium to coarse grained; some gravel	8/2/2004	958	1053	2
	S110	25-27	None	Sand, medium to coarse grained; some gravel	8/2/2004	1002	1053	1
	S111	27.5-29.5	None	Sand, medium to coarse grained; some gravel	8/2/2004	1010	1054	2
	S112	30-32	None	Sand, medium to coarse grained; some gravel	8/2/2004	1016	1120	4
	S113	32.5-34.5	None	Sand, medium to coarse grained; some gravel	8/2/2004	1022	1121	2
	S114	35-37	None	Sand, medium to coarse grained; some gravel	8/2/2004	1026	1121	2
	S115	37.5-39.5	None	Sand, medium to coarse grained; some gravel	8/2/2004	1038	1122	2
	S116	40-42	None	Sand, coarse grained; some gravel	8/2/2004	1045	1122	0
	S117	42.5-44.5	None	Sand, coarse grained; some gravel	8/2/2004	1052	1123	0
	S118	45-47	None	Sand, coarse grained; some gravel	8/2/2004	1058	1123	2
B200	S201	2.5-4.5	None	Sand, fine grained	8/2/2004	1141	1241	0
	S202	5-7	None	Sand, fine grained; trace gravel	8/2/2004	1148	1241	0
	*S203	7.5-9.5	None	Sand, fine grained	8/2/2004	1154	1242	0
	S204	10-12	None	Sand, fine grained	8/2/2004	1159	1242	0
	S205	12.5-14.5	None	Sand, fine grained	8/2/2004	1204	1243	0
	S206	15-17	None	Sand, fine grained	8/2/2004	1210	1243	0
	S207	17.5-19.5	None	Sand, fine grained; trace gravel	8/2/2004	1215	1244	0
	S208	20-22	None	Sand, fine grained; trace gravel	8/2/2004	1220	1244	0
B300	S301	2.5-4.5	None	No Recovery	8/2/2004	---	---	---
	S302	5-7	None	Sand, fine to medium grained	8/2/2004	1258	1400	0
	S303	7.5-9.5	None	Sand, fine to medium grained	8/2/2004	1304	1401	0
	S304	10-12	None	Sand, fine to medium grained	8/2/2004	1309	1401	0
	S305	12.5-14.5	None	Sand, fine to medium grained	8/2/2004	1314	1402	0
	*S306	15-17	None	Sand, fine to medium grained	8/2/2004	1319	1402	10

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Table 1 Soil Field Screening Results, Former Jerry's Union 76, Niagara, Wisconsin

Boring Number	Sample Number	Sample Depth (feet)	Sample Petroleum Odor	Sample Description	Date Collected	PID Headspace Analysis		
						Time Collected	Time Analyzed	PID Response (IU)
B300	S307	17.5-19.5	None	Sand, fine to medium grained	8/2/2004	1333	1403	0
	S308	20-22	None	Sand, medium grained	8/2/2004	1345	1403	2
B400	S401	2.5-4.5	None	Sand, fine to medium grained	8/2/2004	1355	1504	0
	S402	5-7	None	Sand, fine to medium grained	8/2/2004	1400	1504	0
	*S403	7.5-9.5	Sweet/Diesel	Sand, fine to medium grained	8/2/2004	1405	1505	167
	S404	10-12	None	Sand, fine to medium grained	8/2/2004	1410	1533	3
	S405	12.5-14.5	None	Sand, fine to medium grained	8/2/2004	1415	1534	3
	*S406	15-17	Burnt/Chemical	Sand, fine to medium grained	8/2/2004	1420	1540	210
	S407	17.5-19.5	Burnt/Chemical	Sand, fine to medium grained	8/2/2004	1425	1545	96
	S408	20-22	None	Sand, fine to medium grained	8/2/2004	1435	1546	6
	S409	22.5-24.5	None	Sand, fine to medium grained	8/2/2004	1440	1547	2
B500	*S501	2.5-4.5	None	Sand, fine to medium grained	8/2/2004	1502	1601	6
	S502	5-7	None	Sand, fine to medium grained	8/2/2004	1507	1602	2
	S503	7.5-9.5	None	Sand, fine to medium grained	8/2/2004	1511	1603	2
	S504	10-12	None	Sand, fine to medium grained	8/2/2004	1514	1604	2
	S505	12.5-14.5	None	Sand, fine to medium grained	8/2/2004	1519	1604	1
	S506	15-17	None	Sand, fine to medium grained	8/2/2004	1524	1605	2
	*S507	17.5-19.5	None	Sand, medium to coarse grained	8/2/2004	1530	1606	3
	S508	20-22	None	Sand, medium to coarse grained	8/2/2004	1545	1607	2
B600	S601	2.5-4.5	None	Sand Fill	8/2/2004	1620	1717	4
	S602	5-7	None	Sand Fill	8/2/2004	1627	1717	2
	S603	7.5-9.5	None	Sand Fill	8/2/2004	1633	1718	4
	S604	10-12	None	Sand Fill	8/2/2004	1637	1718	3
	S605	12.5-14.5	None	Sand Fill to 14 feet; Sand, fine to medium grained	8/2/2004	1640	1719	3
	S606	15-17	None	Sand, fine to medium grained	8/2/2004	1644	1719	3
	S607	17.5-19.5	None	Sand, fine to medium grained	8/2/2004	1648	1720	1
	*S608	20-22	None	Sand, fine to medium grained	8/2/2004	1651	1720	4
B700	S701	2.5-4.5	None	Sand Fill	8/3/2004	835	927	6
	S702	5-7	None	Sand Fill	8/3/2004	838	928	9
	S703	7.5-9.5	None	Sand Fill	8/3/2004	842	928	6
	S704	10-12	None	Sand Fill	8/3/2004	845	929	7
	S705	12.4-14.5	None	Sand Fill to 14 feet; Sand, fine to medium grained	8/3/2004	849	930	7

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Table 1 Soil Field Screening Results, Former Jerry's Union 76, Niagara, Wisconsin

Boring Number	Sample Number	Sample Depth (feet)	Sample Petroleum Odor	Sample Description	Date Collected	PID Headspace Analysis		
						Time Collected	Time Analyzed	PID Response (IU)
B709	S706	15-17	None	Sand, medium to coarse grained	8/3/2004	854	920	7
	S707	17.5-19.5	None	Sand, medium to coarse grained	8/3/2004	858	931	6
	*S708	20-22	None	Sand, medium to coarse grained	8/3/2004	904	931	9
B800	S801	0-0.5	None	Sand, fine grained, some gravel	10/15/2004	1052	1112	0
	S802	1.5-2	None	Sand, fine grained, some gravel	10/15/2004	1055	1112	0
	*S803	3.5-4	None	Sand, fine grained, some gravel	10/15/2004	1058	1113	0
	S804	5.5-6	None	Sand, coarse grained	10/15/2004	1105	1113	0

A.e. =
 PID = Photoionization Detector
 (a) = Instruments used as isobutylene
 * = Submitted for laboratory analysis
 . = Not Analyzed

b1

Table 2 Soil Analytical Results, Jerry's Automotive, Niagara, Wisconsin

Boring Number	Sample Number	Sample Depth (feet)	PID Response (uV)	Date Sampled	URO (mg/kg)	GRO (mg/kg)	Lead (mg/kg)	Relevant and Significant VOC Analytical Results (ug/kg)										
								Benzene	sec-Butylbenzene	1,2-Dichloroethane	Ethylbenzene	p-Toluenyltoluene	MTHB	Naphthalene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene
NR 720.09 Residual Contaminant Level					100	100	50	5.5	NE	4.9	2,900	NE	NE	NE	1,500	NE	NE	4,100
NR 746.06 Table 1 Values					NE	NE	NE	5,500	NE	600	4,600	NE	NE	2,700	38,000	83,000	11,000	42,000
NR 746.06 Table 2 Values					NE	NE	NE	1,100	NE	540	NE	NE	NE	NE	NE	NE	NE	NE
GB-1	GB-1*	12-14	79	12-2-1993	9	7.4	...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GB-2	GB-2*	4-6	7	12-2-1993	4.8	ND	...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GB-3	GB-3*	2-4	7	12-2-1993	ND	ND	...	...	...	...	...	...	...	...	...	...	...	...
B100	S101	2.5-4.5	471	08-02-04	2,440	1,810	15	< 531	1,060	< 531	< 531	2,980	< 531	1,590	< 531	69,100	97,300	44,600
	S103	7.5-9.5	471	08-02-04	911	772	4.2	< 530	2,120	< 530	< 530	1,060	< 530	12,700	< 530	91,100	25,400	56,100
B200	S203	7.5-9.5	0	08-02-04	< 5.3	< 5.3	< 4.0	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26
B300	S306	15-17	10	08-02-04	12	< 5.4	< 4.4	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27
B400	S403	7.5-9.5	167	08-02-04	176	110	< 4.4	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27
	S406	15-17	210	08-02-04	92	6.5	< 4.3	< 27	< 27	< 27	< 27	< 27	< 27	50	< 27	45	< 27	< 27
B500	S501	2.5-4.5	6	08-02-04	< 5.4	< 5.4	< 4.3	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27	< 27
	S507	17.5-19.5	1	08-02-04	< 5.1	< 5.1	< 4.0	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
B600	S608	20-22	4	08-02-04	9.1	< 5.2	< 4.1	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26
B700	S708	20-22	9	08-03-04	< 5.1	< 5.1	< 4.1	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26	< 26
B800	S803	3.5-4	0	10-01-04	78	...	...	< 27	...	...	< 27	...	< 27	< 27	< 27	< 27	< 27	< 27

URO - Diesel Range Organics
 GRO - Gasoline Range Organics
 MTHB - Methyl-Tertiary-Butyl-Ether
 mg/kg - milligrams per kilogram
 ug/kg - micrograms per kilogram
 ... - Not Analyzed
 ND - No Detect
 NA - Not Applicable
 I - Analyte detected between the Limit of Detection and the Limit of Quantitation
 VOC - Volatile Organic Compound
 NE - Not Established by Wis. Adm. Code
 RCL - Residual Contaminant Level
 100 - Exceeds Chapter NR 720 WAC Residual Contaminant Level
 GB-1* - Advent Phase II ESA soil sample

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Cadmium and lead were detected in the sample at a concentration of 41 and 300 ppb, respectively. These concentrations exceed the respective ES for these compounds.

Various VOCs were detected at concentrations above the ES.

Table 2-8 contains the results of the chemical analyses of the soil samples. Copies of laboratory data reports are provided in Appendix E. See Table 2-9 for results of chemical analyses of groundwater samples.

TABLE 2-8			
RESULTS OF CHEMICAL ANALYSES OF SOIL SAMPLES			
JERRY'S UNION 76 SITE			
DATE COLLECTED: DECEMBER 2, 1993			
Parameter	Sample Number		
	GB-1	GB-2	GB-3
Depth (feet)	12-14	4-6	2-4
GROs (ppm)	3.4	ND	ND
DROs (ppm)	9.1	4.8	ND
VOCs	ND	ND	NA
PID (instrument units)	700	6	0

ND Not Detected

TABLE 2-9

RESULTS OF CHEMICAL ANALYSES OF GROUNDWATER SAMPLES
 JERRY'S UNION 76 SITE
 DATE COLLECTED: DECEMBER 2, 1993

Parameter	Sample Number	PAL	ES
	GB-1		
GROs (ppb)	69,000	---	---
DROs (ppb)	3,000	---	---
Lead (ppb)	300	5	50
Cadmium	41	1	10
VOCs (ppb)			
Benzene	ND	0.067	5
Toluene	25,000	68.6	343
Ethylbenzene	3,100	272	1,360
xylenes	13,100	124	620
1,1,1 trichloroethane	630	40	200
sec-butylbenzene	ND	---	---
1,2,4 trimethylbenzene	2,100	---	---
1,3,5 trimethylbenzene	540	---	---
naphthalene	ND	8	40
n-isopropyltoluene	ND	---	---
n-propylbenzene	ND	---	---
iso-propylbenzene	ND	---	---

--- Not Applicable

ND Not Detected

Shading indicates concentrations above the ES.

CITGO Quik Food Mart

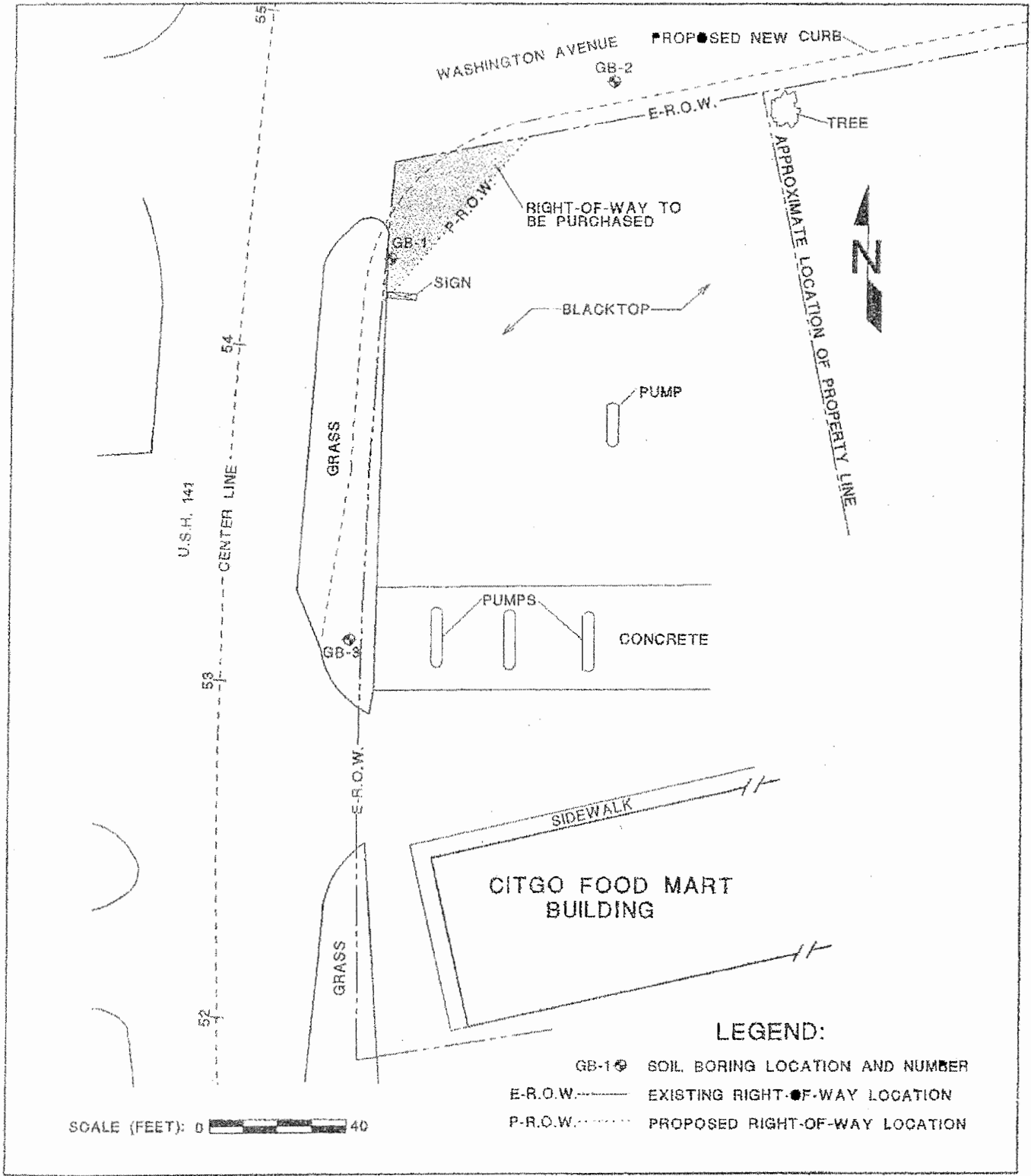


FIGURE 2-3 SOIL BORING LOCATIONS
CITGO FOOD MART
NIAGARA, WISCONSIN

A D V E N T
ENVIRONMENTAL SERVICES, INC.
DATE: 1/10/84
DRAWING # 87083D

Analytical Methods Utilized for Chemical Analyses of Samples

En Chem, Green Bay, Wisconsin, analyzed the soil samples collected at the Citgo Quik Food Mart site. Soil samples were chemically analyzed using the analytical methods listed on the laboratory data sheets in Appendix E. Each analytical method follows specific quality control (QC) criteria listed in the reference manual describing the method. This includes the selection and calibration of appropriate instruments and the use of QC samples. Daily performance tests and the demonstration of precision and accuracy in the laboratory are required.

Results of Chemical Analyses of Samples

Soil Samples

Chemical analyses of three soil samples yielded the following results:

- No GROs or DROs were identified in any of the soil samples at concentrations above the laboratory detection limit.

Table 2-8 contains the results of the chemical analyses of the soil and groundwater samples. Copies of laboratory data reports are provided in Appendix E.

TABLE 2-8 RESULTS OF CHEMICAL ANALYSES OF SOIL SAMPLES CITGO QUIK FOOD MART SITE DATES COLLECTED: DECEMBER 2 AND 3, 1993			
Parameter	Sample Number		
	GB-1	GB-2	GB-3
Depth (feet)	2-4	2-4	2-4
GROs (ppm)	ND	ND	ND
DROs (ppm)	ND	ND	ND

ND Not detected at levels above laboratory detection limits.

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Attachment 2
Special Provisions

9. Notice to Contractor – Contamination Beyond Construction Limits.

The department completed testing for soil and ground water contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following site(s):

1. Station 252+00 to 253+00 from centerline RT to construction limits.

The contaminated soils at the above site are expected to be beyond the excavation limits necessary to complete the work under this project. Control construction operations at these locations to ensure that they do not extend beyond the excavation limits indicated in the plans. If contaminated soils are encountered at these sites or elsewhere on the project during excavation, terminate excavation in the area and notify the engineer.

The Hazardous Materials Report is available from the regional office by contacting Paul Zoellner at (920) 492-0132.
107-100 (20050901)

1. **Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.**

A Description

A.1 General

This special provision describes excavating, segregating, loading, hauling, and disposing of petroleum contaminated soil at a WDNR approved bioremediation facility. The closest WDNR approved bioremediation facilities are: Waste Management – Ridgeview, 6207 Hempton Lake Road, Whitelaw, WI 54247 and Veolia Hickory Meadows, W3105 Schneider Road, Chilton Tn, WI 54129.

Perform this work in accordance to section 205 of the standard specifications and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

A.2 Notice to the Contractor – Contaminated Soil Location(s)

The department completed testing for soil and groundwater contamination for locations within this project where excavation is required. Testing indicated that petroleum-contaminated soil is present at the following location(s) as shown on the plans:

1. Station 253+75 to 255+00 from 15 feet RT of reference line to construction limits RT.

Contaminated soil and/or underground storage tanks (USTs) may be encountered at other locations within the construction limits. If contaminated soil and/or USTs are encountered at other locations, terminate excavations in that area and notify the engineer. Contaminated soil at other locations shall be managed by the contractor under this contract and USTs will be removed by others.

It is anticipated that active groundwater monitoring wells will be encountered during construction. If active groundwater monitoring wells are encountered during construction, notify the engineer and protect the wells to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. Adjust monitoring wells that need to be maintained and do not conflict with structures or curb and gutter to be flush with the final grade. Coordinate with the environmental consultant the abandonment or adjustment of wells that conflict with the previously mentioned items and wells that are not required to be maintained.

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated material. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities at these sites contact:

Name: Dan Haak, RMT
Address: 744 Heartland Trail, Madison, WI 53717
Phone: (608) 662-5274
Fax: (608) 831-3334
e-mail: dan.haak@rmtinc.com

A.3 Coordination

Coordinate work under this contract with the environment consultant:

Consultant: RMT, Inc.
Address: 744 Heartland Trail, Madison, WI 53717
Contact: Dan Haak
Phone: (608) 662-5274
Fax: (608) 831-3334
e-mail: dan.haak@rmtinc.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying contaminated soils to be hauled to the bioremediation facility;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days prior to commencement of excavation activities in each of the contaminated areas.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated areas. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed.

Identify the DNR approved bioremediation facility that will be used for disposal of contaminated soils, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soils from the bioremediation facility. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

A.4 Health and Safety Requirements

Supplement subsection 107.1 of the standard specifications with the following:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction

Supplement subsection 205.3 of the standard specification with the following:

Control operations in the contaminated areas to minimize the quantity of contaminated soil excavated.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

On the basis of the results of such field-screening, the material will be designated for disposal as follows:

- Excavation Common consisting of clean soil and/or clean construction and demolition fill (such as clean soil, boulders, concrete, reinforced concrete, bituminous pavement, bricks, building stone, and unpainted or untreated wood), which under NR 500.08 are exempt materials, or
- Low-level contaminated material for reuse as fill within the construction limits, or
- Contaminated soil for off-site treatment and disposal at the WDNR-licensed bioremediation facility, or
- Potentially contaminated for temporary stockpiling and additional characterization prior to disposal

Some material may require additional characterization prior to disposal. Provide for the temporary stockpiling of up to 100 cubic yards of contaminated soil on-site that require additional characterization. Construct and maintain a temporary stockpile of the material in accordance with NR 718.05(3), including, but not limited to, placement of the contaminated soil/fill material on an impervious surface and covering the stockpile with impervious material to prevent infiltration of precipitation. The Department's environmental consultant will collect representative samples of the stockpiled material, laboratory-analyze the samples, and advise the contractor, within 10 business days of the construction of the stockpile, of disposal requirements. The stockpiled material shall be disposed either at the WDNR-licensed disposal facility by the contractor or, if characterized as hazardous waste, by the Department. As an alternative to temporarily stockpiling contaminated soil/fill material that requires additional characterization, the contractor has the option of suspending excavation in those areas where such soil is encountered until such time as characterization is completed.

Directly load and haul soils designated by the environmental consultant for offsite bioremediation to the DNR approved bioremediation facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of petroleum-contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site bioremediation so as not to contain free liquids.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Petroleum Contaminated Soil in tons of contaminated soil accepted by the bioremediation facility as documented by weight tickets generated by the bioremediation facility.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	Ton

Payment is full compensation for excavating, segregating, loading, hauling, and treatment via bioremediation of contaminated soil; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; dewatering of soils prior to transport, if necessary; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

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