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PHASE II ENVIRONMENTAL SITE ASSESSMENT

FOR

FORMER THOMAS SERVICE STATION
55 WISCONSIN AVENUE
MONTREAL, IRON COUNTY, WISCONSIN
MARCH 2011



Coleman Engineering

Civil Engineering • Environmental Engineering
Geotechnical Engineering • Land Surveying • Test Drilling
Construction Quality Control • Materials Laboratory Testing



Coleman Engineering Co.

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Materials Laboratory Testing

Office also located at: 200 East Ayer Street Ironwood, MI 49938 phone: (906) 932-5048 fax: (906) 932-3213 March 7, 2011

Mr. Thomas Bergman Iron County Zoning Administrator 300 Taconite Street Hurley, WI 54534-1546

RE: Phase II Environmental Site Assessment Former Thomas Service Station

Dear Mr. Bergman:

Attached please find a final copy of a Phase II Environmental Site Assessment for the former Thomas Service Station in the City of Montreal.

Thank you again for allowing Coleman Engineering Company to provide Iron County with professional engineering services. If you have any questions, do not hesitate to contact me at 906-774-3440.

Sincerely,

COLEMAN ENGINEERING COMPANY

John T. Hunt, P.G.

Geologist

Enclosure

cc: WDNR-P. Richard

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PHASE II ENVIRONMENTAL SITE ASSESSMENT

FOR

FORMER THOMAS SERVICE STATION 55 WISCONSIN AVENUE MONTREAL, IRON COUNTY, WISCONSIN

MARCH 2011

COLEMAN ENGINEERING COMPANY 635 Circle Drive Iron Mountain, MI 49801

CEC Project #EE-10201A

TABLE OF CONTENTS

	<u>Page No.</u>								
1.0	INTRODUCTION1								
2.0	UNDERGROUND STORAGE TANK REMOVAL2								
3.0	PHASE II PROCEDURES								
4.0	CONCLUSION AND RECOMMENDATIONS6								
5.0	LIMITATIONS6								
6.0	REFERENCES7								
	APPENDICES								
APPE	NDIX A – FIGURES								
	Figure 1 – Project Location Map								
	Figure 2 – Site Location Map								
	Figure 3 – Soil Sample Location Map								
	Figure 4 – Soil Impact Area								
	Figure 5 – Groundwater Impact Area								
	Figure 6 – Cross Section								
APPE	NDIX B – PREVIOUS ENVIROSCIENCE INC. PHASE II ESA								
APPE	NDIX C – UNDERGROUND STORAGE TANK REMOVAL DOCUMENTS								
APPENDIX D – BORING LOGS AND WELL REPORTS									
APPENDIX E – LABORATORY REPORTS									
APPENDIX F – LIMITATIONS									

PHASE II ENVIRONMENTAL SITE ASSESSMENT FOR

FORMER THOMAS SERVICE STATION 55 WISCONSIN AVENUE MONTREAL, WISCONSIN

1.0 INTRODUCTION

In the early 1990's the Wisconsin Department of Transportation (WisDOT) planned to reconstruct State Highway 77 (Wisconsin Avenue) through Montreal, Wisconsin. As part of the pre-construction planning, WisDOT identified the former Thomas Service Station, 55 Wisconsin Avenue, Montreal, Wisconsin, (Site) as a place of potential contamination. WisDOT contracted Enviroscience Inc. of Eau Claire, Wisconsin, to perform a Phase II Environmental Site Assessment (ESA) along State Highway 77 including in the right-of-way at the Subject Property. The Enviroscience Phase II ESA found slightly impacted soil in the Subject Property State Highway 77 right-of-way. This finding resulted with the July 1994 listing of the Subject Property as a Wisconsin Department of Natural Resources (DNR) Leaking Underground Storage Tank (LUST) site. In October 2010 ownership of the Subject Property was obtained by Iron County through tax default.

Subject Property location maps are attached to this report in Appendix A. The July 1994 Enviroscience Phase II ESA is included in Appendix B.

In June 2010 Coleman Engineering Company (CEC) was retained by Iron County to conduct a Phase I ESA in accordance with American Society for Testing and Materials E 1527-05 Standard Practice for Environmental Site Assessments. The Phase I ESA resulted in the identification of several recognized environmental conditions (RECs) regarding the property at the former Subject Property.

The term REC generally means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release or material threat of release into structures on the property, onto the ground, or into groundwater or surface water of the property. The term includes hazardous substances or petroleum products even when in compliance with applicable regulations. Specific RECs identified for this investigation were the following:

- The Subject Property is listed by the DNR as a LUST Site (BRRTS # 03-26-000788). This indicates the Subject Property is a source of a release of a hazardous substance(s) to the environment and is, therefore, considered a REC.
- Underground storage tanks (USTs) were reported and observed on the Subject Property. The presence of a petroleum retailer indicates large quantities of hazardous materials had been stored on the Subject Property in USTs and aboveground storage tanks (ASTs). The presence of these USTs containing fluid presents evidence for the potential of a release of a possible petroleum product and a material threat of a release of a petroleum product to the environment at the Subject Property and is, therefore, considered a REC.

- The Subject Property was an operating service station from the 1940s (or before) to the mid-1980s. The disposal of automotive fluids at service stations of the 1940s through the 1960s was often via on-site land application. The presence of this historic former service station site presents evidence for the potential of a release of possible petroleum products to the environment at the Subject Property and is, therefore, considered a REC.
- The wastewater discharge from the service station was reportedly directly into the West Branch of the Montreal River until the station closed in the 1980s. This indicates the Subject Property was a source of a release of potentially hazardous substance(s) to the environment and is, therefore, considered a REC.

To further assess the release(s) associated with the former Thomas Service Station, a Phase II ESA was conducted in accordance with American Society for Testing and Materials (ASTM) Designation E 2247-08. In addition the two (2) existing USTs on the Subject Property were removed; this report includes documentation of the tank removal.

2.0 UNDERGROUND STORAGE TANK REMOVAL

During the Phase I ESA site reconnaissance, two (2) USTs were observed on the Subject Property. It was also observed that the USTs were filled with fluid. In an interview with the former owner of the Subject Property it was learned the tanks were of 1,000 gallon capacity and they had been filled with water and stabilizing solution in the early 1990's when the station closed for business.

CEC contracted SGS Environmental Contracting, LLC of Merrill, Wisconsin, to remove the USTs and provide disposal and/or treatment of all associated wastes. On September 15th, 2010, SGS mobilized to the Subject Property to perform the tank removal. A UST site assessment (as per Department of Commerce COMM 10) was not performed as the Subject Property was already a DNR listed LUST site with a BRRTS identification number (03-26-000788).

The water in the USTs had been approved for treatment by Mr. Mark Bowman, Manager/Operator of the Gogebic-Iron Wastewater Treatment Authority facility in Ironwood, Michigan. Approximately 1,500 gallons were transported to the Gogebic-Iron Wastewater Treatment Authority facility in Ironwood, Michigan, on September 15, 2011. One (1) drum of sludge from cleaning out the USTs was disposed of by Chief Waste Treatment Corp. Winneconne, Wisconsin. The USTs and associated piping was removed from the Subject Property and recycled as scrap metal at Schulz's Recycling Inc. Merrill, Wisconsin. The UST excavation was backfilled with clean imported soil.

Prior to backfilling the UST excavation, two (2) soil samples and a groundwater sample were retrieved from the UST excavation. The two (2) soil samples were retrieved from the excavation sidewalls and the groundwater sample was grabbed from pooled water in the bottom of the excavation. The samples were collected as part of this Phase II ESA and are discussed in Section 3.0.

Documentation of UST removal and materials disposal is included in Appendix B.

3.0 PHASE II PROCEDURES

Field Procedures and Soil Conditions

CEC mobilized on November 17, 2010 to the Subject Property to inspect and sample areas associated with the RECs identified in the Phase I ESA. Location maps and a site map with the sample locations are included as Appendix A.

A total of nine (9) borings were advanced at the Subject Property on November 17, 2010 using a GeoProbe direct push drilling rig. A portion of each soil sample from every boring was preserved for laboratory analysis.

In three (3) of the borings, a temporary well was installed for the collection of a water sample laboratory analysis. The temporary wells were constructed of 1 inch diameter PVC screen and riser.

Samples selected for laboratory analysis were transported on ice to Pace Analytical, Green Bay, Wisconsin under chain-of-custody protocol. The samples were analyzed for petroleum volatile organic compounds plus napthalene (PVOC+Nap).

Soil conditions encountered were varied from fill materials to native peat and till. The till is red, silty sand with varying amounts of gravel and clay. Sand and gravel fill was found from ground surface to 1-2 feet below ground surface (BGS). Peat was found underlying the sand and gravel to 3-4 feet BGS with till underlying the peat. Probe refusal, assumed bedrock, was encountered between 5 and 8 feet in all borings. Groundwater was encountered at approximately 5-6 feet BGS in all borings. Boring locations are displayed on Figure 3 and a geologic cross section is included as Figure 6 in Appendix A; boring logs are included in Appendix C. Groundwater flow is assumed to be in a westerly direction toward the West Branch of the Montreal River approximately 100 yards from the Subject Property.

The site assessment was limited in depth as all borings encountered refusal between 5 and 8 feet BGS. This refusal is assumed to be bedrock, Precambrian banded iron formation, as there are several outcrops in the vicinity.

Sample Analyses Results

A total of eleven (11) soil samples and four (4) water samples were collected from the Subject Property and submitted for laboratory analysis during the two (2) field efforts performed by CEC in 2010. Two (2) soil samples and one (1) groundwater sample were collected as part of the September 15, 2010 tank removal and nine (9) soil samples and three (3) water samples were collected as part of the November 23, 2010 site assessment. Sample analysis results are summarized in the tables on the following page. The tables also compare the analytical results Wisconsin Administrative Code (WAC) NR 720 Residual Contaminant Levels (RCLs) for soil and WAC NR 140 Preventive Action Limits (PALs) and Enforcement Standard (ES) for groundwater.

Soil Samples:

A review of the soil sample results indicate heavily impacted soil in borings B-1, B-2 and B-8 between the ground surface and groundwater (approximately 5 feet BGS). Results of samples collected from these borings exceed WAC NR 720 RCLs for benzene, ethylbenzene, toluene, and/or xylene. These locations are near the former UST and pump island location. In Appendix A, Figure 3 displays the boring locations and Figure 5 displays the estimated area of soil impact exceeding the WAC NR 720 RCLs. Laboratory analytic reports are included in Appendix E.

Groundwater Samples:

A total of four (4) groundwater samples from the Subject Property were submitted for laboratory analysis of PVOC + Nap. One (1) groundwater grab sample (sample identification Tank Pit) was collected from the bottom of the UST excavation on September 15, 2010. A groundwater sample was collected from a temporary monitoring well installed in each of the borings B-1, B-6 and B-7. A review of the groundwater results summary table on the following page indicates a WAC NR 140 PAL or ES exceedance in all four (4) samples. It should be noted that only sample B-1 displays ES exceedances. Generally, the ES is the imposed regulatory standard. The ES for benzene, ethylbenzene, 1,2,4 trimethylbenzene, xylene and naphthalene was exceeded in sample B-1 results. The PAL for benzene was exceeded in samples from the Tank Pit, B-6 and B-7; the PAL for methyl-tert-butyl ether was exceeded in the sample retrieved from B-6. Figure 6 in Appendix A displays the estimated area of groundwater impact. Laboratory analytical reports are included in Appendix E.

FORMER THOMAS SERVICE STATION LABORATORY RESULTS

TABLE 1 SOIL SAMPLE ANALYSIS RESULTS

Sample Identification	North Tank Pit	South Tank Pit	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	NR
Sample Date	9/16/10	9/16/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	11/17/10	720 RCL
Sample Depth	6'	6'	4-5'	4-5'	4-5'	4-5'	4-5'	4-5'	4-5'	4-5'	4-5'	KCL
Benzene	<100	<25	<1250	<1250	<25	<25.3	<25	<25.5	<26.3	<500	<25	5.5
Ethylbenzene	<100	<25	15000	30800	<25	<25.3	<25	<25.5	<26.3	8830	<25	1500
Methyl-tert-butyl ether	<100	<25	<1250	<1250	<25	<25.3	<25	<25.5	<26.3	<500	<25	na
Toluene	207J	<25	<1250	5560	<25	<25.3	<25	<25.5	<26.3	721J	<25	2900
1,2,4 Trimethylbenzene	2460	<25	111000	211000	<25	<25.3	<25	<25.5	<26.3	94800	<25	na
1,3,5 Trimethylbenzene	1950	<25	50700	85300	<25	<25.3	75	<25.5	<26.3	42200	<25	na
Total Xylene	894	<50	913000	200200	<50	<50.5	<50	<51	<82.5	57300	<50	4100
Naphthalene	na	na	10000	17300	<25	<25.3	<25	<25.5	<26.3	7450	<25	na

TABLE 2
GROUNDWATER SAMPLE ANALYSIS RESULTS

Sample Identification	Tank Pit	B-1 Well	B-6 Well	B-7	NR 140
Sample Date	09/16/10	11/17/10	11/17/10	11/17/10	PAL/ES
Benzene	1.5	31.9	<7.8	4.6	0.5/5
Ethylbenzene	8.4	444	27.4	<0.41	140/700
Methyl-tert-butyl ether	<0.38	11.9	55.1	<0.38	12/60
Toluene	7.5	35.5	17.6J	<0.42	200/1000
1,2,4 Trimethylbenzene	4	1400	14.7J	<0.43	14/70
1,3,5 Trimethylbenzene	1.1	400	56.5	<0.40	na
Total Xylene	54.7	2521	43J	<1.0	1000/10000
Naphthalene	na	132	30.1	< 0.40	10/100

NOTES:

All concentrations in micrograms per kilogram ($\mu g/kg$) for soil and micrograms per liter ($\mu g/l$) for water na- not available

J-laboratory footnote concentration estimated

NR 720 RCL- Residual Contaminant Level from WI Administrative Code NR 720.11 from WI Administrative Code NR 141

NR 141 PAL/ES - Preventative Action Level/Enforcement Standard from WI Administrative Code NR 140.10 Table 1.

BOLD results indicate regulatory standard exceedance

4.0 CONCLUSION AND RECOMMENDATIONS

The purpose of this Phase II ESA Report was to document the removal of two (2) underground storage tanks and to perform site assessment activities to determine conditions associated with the Phase I ESA RECs, specifically the former Thomas Service Station LUST Site. The site assessment efforts have partially defined the degree and extent of impact to soil and groundwater by the release of petroleum from the former Thomas Service Station UST system. Impact appears to be limited to the area immediately around the former UST location and the pump island. Soil is impacted by PVOC + Nap compounds at borings B-1 and B-2 above WAC NR 720 RCLs. The soil has, and continues to, impact groundwater to concentrations exceeding WAC NR 141 Enforcement Standards as displayed in analytic results of a sample collected from temporary well B-1. Additionally, there are WAC NR 141 PAL exceedances in all other groundwater samples analyzed. However, as with the soil impact, groundwater impact appears to be limited to the area around the former pump island and UST location.

As soil and groundwater in the UST/Pump Island is not in compliance with WAC NR 720 RCLs and NR 140 ES/PALs respectively, it is recommended to perform further work to achieve DNR closure of the LUST Site. The Department of Commerce (DCOMM) Petroleum Environmental Cleanup Fund Award (PECFA) will fund a portion of future site assessment and remedial activities. DCOMM has determined the LUST Site eligible for PECFA funding and has assigned 54550-9999-00 as the site identification number and 13222 as an occurrence identification number.

Further work at the LUST Site should include installation of permanent groundwater monitoring wells to determine hydrogeologic conditions and trends and a source reduction (soil removal) remedial action. It is recommended to discuss future site activities with DNR and DCOMM to define an acceptable scope of work for the eventual closure of the LUST Site.

5.0 LIMITATIONS

There are limitations inherent to the environmental investigation process. No environmental investigation can wholly eliminate uncertainty regarding actual environmental conditions of the subject study area(s). This is because when dealing with existing conditions that are hidden from view, affected by time, changes in state and other limitations, it would require a substantial level of financial and technical effort in order to remove all of the uncertainty associated with a Subject Property evaluation.

It must be understood that the laboratory results and the conclusions drawn from the results have inherent limitations and uncertainty. The limitations and uncertainty exist when Subject Property samples are collected and laboratory analyzed for the purpose of representing existing Subject Property conditions. Although special care is taken in the field to assure adequate sampling, the laboratory analytical results of those samples are most representative of the exact location of where the samples were collected. The results, however, are used as a basis for demonstrating existing conditions, when in fact the overall actual conditions may be different. Additional limitations are included as Appendix F of this report.

6.0 REFERENCES

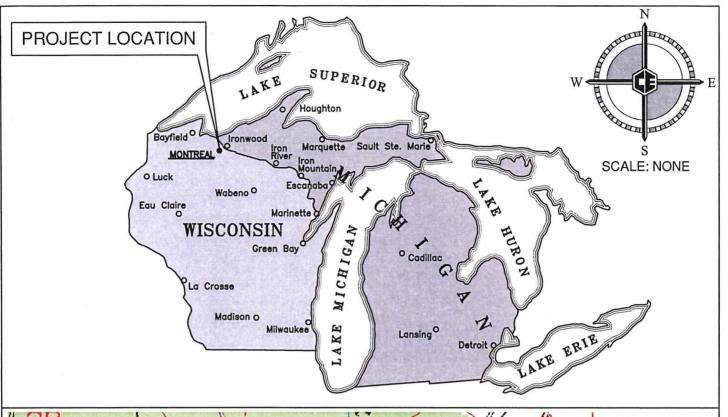
Phase I Environmental Site Assessment Report prepared by Coleman Engineering Company, dated July 2010.

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APPENDIX A

FIGURES

Figure 1 – Project Location Map
Figure 2 – Site Location Map
Figure 3 – Soil Sample Location Map
Figure 4 – Soil Impact Area
Figure 5 – Groundwater Impact Area
Figure 6 – Cross Section



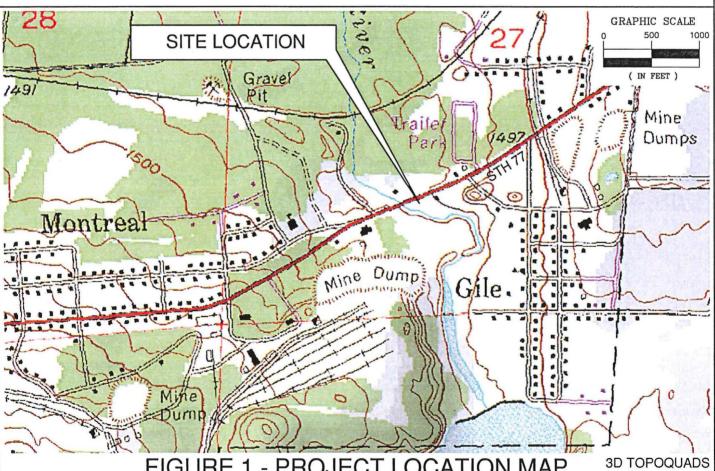
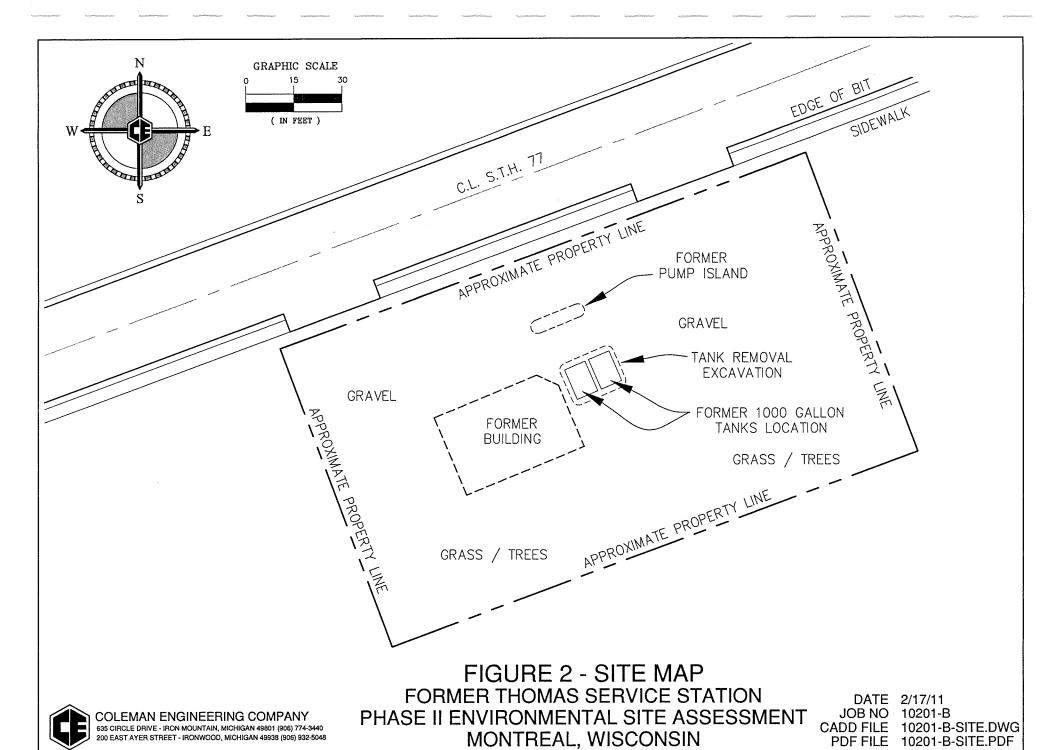
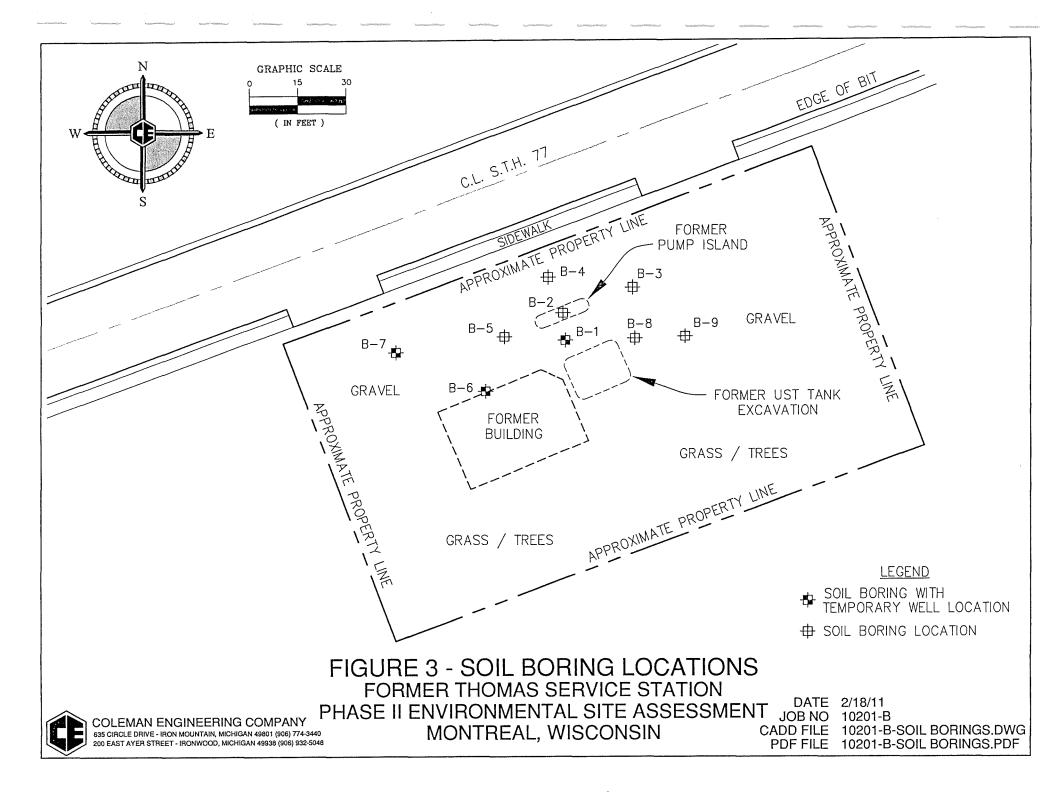


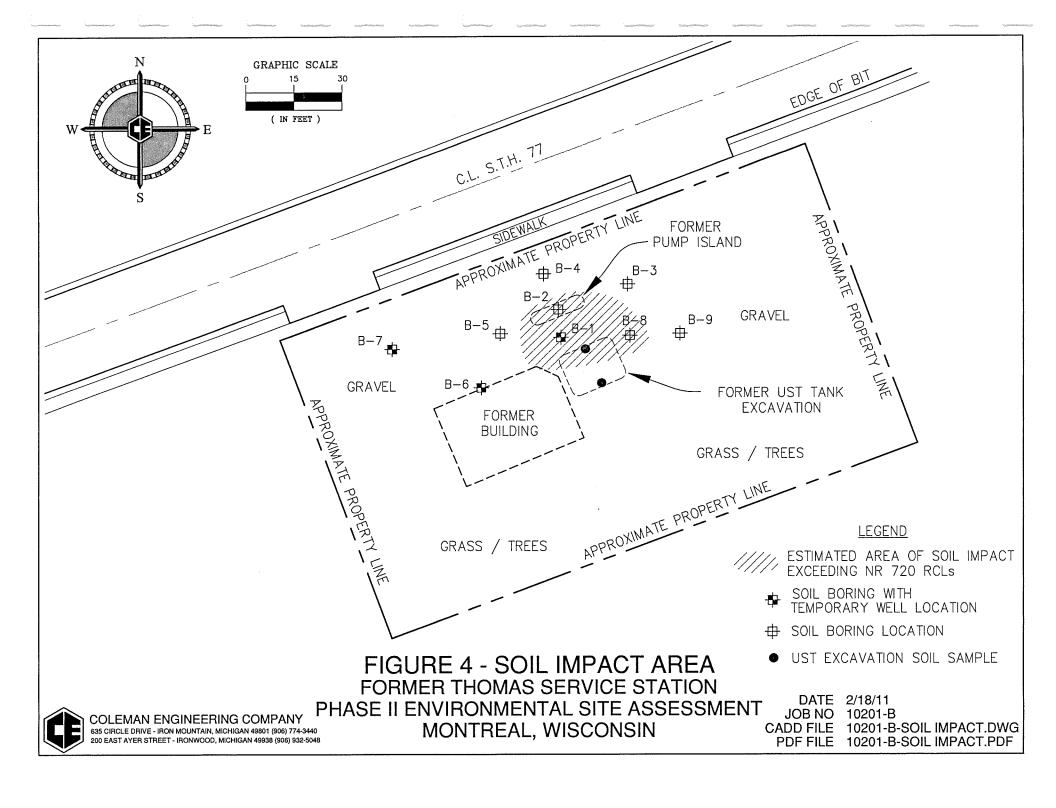
FIGURE 1 - PROJECT LOCATION MAP FORMER THOMAS SERVICE STATION PHASE II ENVIRONMENTAL SITE ASSESSMENT MONTREAL, WISCONSIN DATE 2/17/11

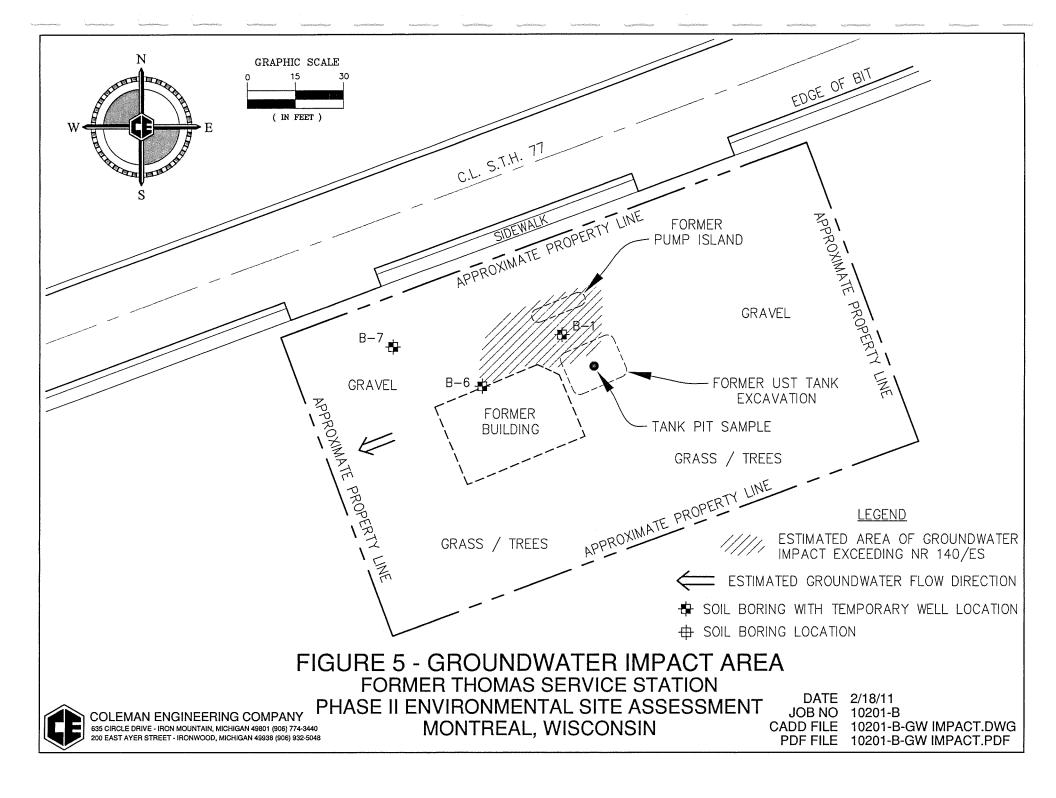
COLEMAN ENGINEERING COMPANY
635 CIRCLE DRIVE - IRON MOUNTAIN, MICHIGAN 49801 (906) 774-3440
200 EAST AYER STREET - IRONWOOD, MICHIGAN 49938 (906) 932-5048

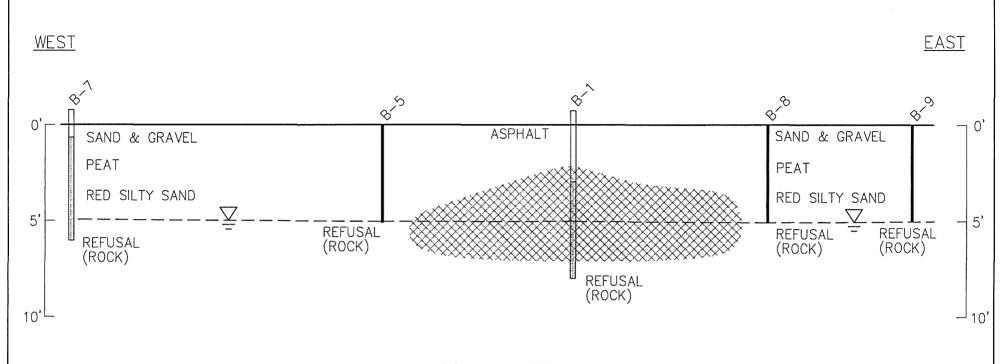
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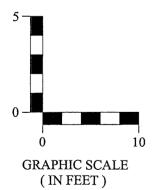












<u>LEGEND</u> SOIL IMPACT EXCEED

SOIL IMPACT EXCEEDING NR720 RESIDUAL CONTAMINANT LEVEL

GROUNDWATER

FIGURE 6 - CROSS SECTION
FORMER THOMAS SERVICE STATION
PHASE II ENVIRONMENTAL SITE ASSESSMENT
MONTREAL, WISCONSIN

DATE 3/1/11 JOB NO 10201-B

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10LY 1994 PHASE II ESA PREVIOUS ENVIROSCIENCE, INC.

VAPENDIX B

PHASE II

ENVIRONMENTAL ASSESSMENT

FOR

THOMAS ABANDONED SERVICE STATION

STATE T.H. 77

IRON COUNTY

WDOT PROJECT ID 9250-09-00

Prepared By:

Steven J. Palzkill

Environmental Manager

Enviroscience, Inc.

Date: 7-12-94

Reviewed By:

Dary E. Zuelke Date: 7-12-94

P.E. Vice President

Enviroscience, Inc.

Table of Contents

Section One	EXECUTIVE	SUMMARY
	1.1	Results and Conclusions
	1.2	Recommendations
Section Two	SITE INVES	FIGATION
	2.1	Purpose and Scope 5
	2.2	Site Description and History 8
	2.3	Geologic/Hydrogeologic Setting 8
	2.4	Regulatory Review
	2.5	Sampling Procedures and Locations 11
	2.6	Analytical Results
	2.7	Conclusions
	2.8	Recommendations
	2.9	Standard of Care
Could be There	ADDENINGE	
Section Three	APPENDICE	.5
	A.	.Site Photographs
	B.	WDNR Soil Boring Log Forms
	C.	Analytical Results and Chain of Custody
	D.	Standard Sampling and Analytical Procedures

ABBREVIATIONS

AA Atomic Absorption, technique used to test for metals

ASTM American Society for Testing Metals

bg Below Grade Cd Cadmium

DHSS Department of Health and Human Services

DILHR Department of Industry, Labor and Human Relations

DRO Diesel Range Organic

EPA Environmental Protection Agency ERP Environmental Repair Program FID Flame Ionization Detector

GC-MS Gas Chromatograph-Mass Spectrometer

GRO Gasoline Range Organic

LUST Leaking Underground Storage Tank

MDL Minimum Detection Limits

ND not detected

Pb Lead

PID Photo Ionization Detector

ppb parts per billion

ppm parts per million, which is equivalent to mg/kg PVOC Petroleum Volatile Organic Compound

QC Quality Control RP Responsible Party

TCLP Toxicity Characteristic Leaching Procedure

UST Underground Storage Tank
VOC Volatile Organic Compound

WDOT Wisconsin Department of Transportation

EXECULIAE SOMWYKK

Section One

1.1 Results and Conclusions

Enviroscience Inc. has completed a Phase II Environmental Assessment of the Thomas Abandoned Service Station site located in the City of Montreal, WI. The Phase II Environmental Assessment was conducted on May 23-26 for the Wisconsin Department of Transportation (WDOT) State Trunk Highway (STH) 77, Montreal to Hurley, Project I.D.# 9250-09-00.

The proposed project is located on State Trunk Highway 77 in Iron County. It begins west of the City of Montreal's corporate limits, at Elm Street, and extends easterly approximately 4.0 miles through the City of Montreal, into the City of Hurley to 6th Avenue. The existing roadway consists of both rural and urban sections.

The urban portion of the project would involve reconstructing the section in the City of Montreal from Bessemer Street approximately 2.0 miles into the City of Hurley to 5th Street. The urban section will be constructed as a 36-foot wide face to face curb and gutter section, with a storm sewer system.

The results of the assessment are as follows:

- * The site ceased operations in 1989. Prior to 1989 the site operated as a gasoline service station. The investigator was unable to determine the date that the station began operations.
- * The properties to the east and west sides of the Thomas site are undeveloped woods. State Trunk Highway 77 runs along the north side

of the property while the Montreal River runs parallel to the south side of the property.

- * There was no surface evidence of spills but, common to all gasoline sites, there is the possibility that overfills have occurred.
- * Two soil borings (SB-5 and SB-6) were drilled to depth of 7.0 and 12.0 feet below grade (bg) respectively. Both borings were located within the existing STH 77 right-of-way.
- * Ground water was encountered at approximately the 2.5 to 4.5-foot level in both soil borings. Bedrock was encountered in both borings.
- * Photoionization detector (PID) field screening of soil samples did not indicate the presence of petroleum constituents. Also, visual and olfactory inspection gave no evidence that contamination was present.
- * One soil sample from SB-5 and two samples from SB-6 were analyzed for Gasoline Range Organics (GRO) and Diesel Range Organics (DRO). The second sample was taken from SB-6 for use as a duplicate (a quality assurance measure). The SB-5 sample contained DRO at a concentration of 100 ppm which is well above the WDNR remedial action guideline of 10 ppm. DRO in samples SB-6 and SB-6 (dupl.) and GRO in SB-5, SB-6 and SB-6 (dupl.) were below the DNR guideline of 10 ppm.
- * SB6 was developed into a temporary ground water monitoring point by placing a screened well casing within the boring. A water sample tested for Petroleum Organic Compounds (PVOC) with no detection.

1.2 Recommendations

Based on the results of this investigation, Enviroscience recommends additional investigation of soil contamination in the anticipated construction zone (surface to five feet) within the Wisconsin Department of Transportation (WDOT) right-of-way at this site. It should be noted that a 100 ppm level of Diesel Range Organics was identified in the 2.5 to 4.5-foot zone of SB-5. The Wisconsin Department of Natural Resources (WDNR) remedial action guideline for Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) soil contamination is 10 ppm. Also a low level of Gasoline Range Organics, 1.7 ppm, were identified in SB-5 in the 2.5 to 4.5-foot zone. Diesel Range Organics (DRO) were also detected (9.7 ppm) in the 5.0 to 7.0-foot zone of SB-6. It is possible that higher concentrations of petroleum contamination exist on the site in areas that were not investigated.

The potential exists to encounter soil contamination during construction. The extent and degree of soil contamination within the right-of-way needs to be defined in order to determine the best method of soil handling and remediation.

Sampled ground water did not contain Petroleum Volatile Organic Compounds (PVOC's), but because the ground water is so close to the surface (within 2.5 to 4.5 feet in both soil borings) impacts to the ground water may exist elsewhere on the site. Current construction plans involve excavation for new storm sewers to a

depth of five feet so dewatering may be required. The potential exists to encounter Volatile Organic Compound (VOC) contaminated ground water during this excavation. Crews responsible for dewatering should be prepared to handle Volatile Organic Compounds (VOC) impacted ground water if necessary. At a minimum, if any indication of soil contamination (e.g., petroleum odor) is discovered during construction, a Wisconsin Department of Transportation (WDOT) environmental consultant should be on-site to monitor the excavation and disposal or treatment of the impacted soil.

SILE INVESTIGATION

Section Two

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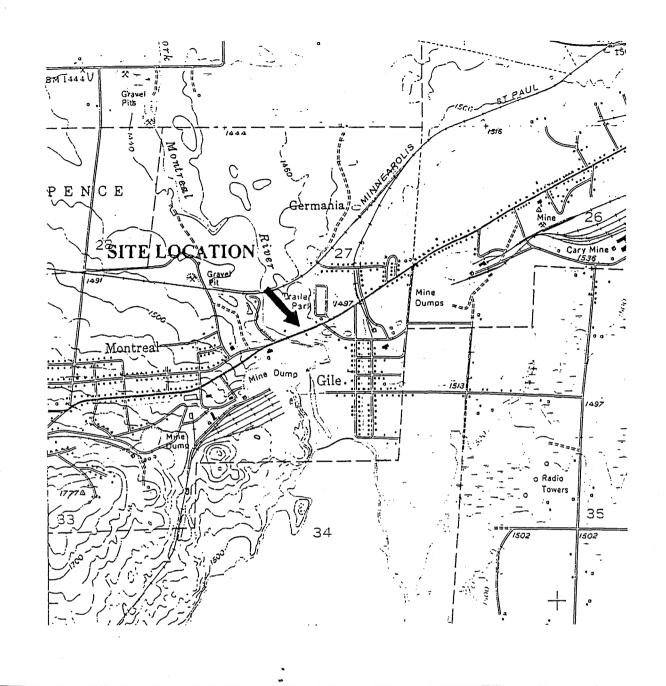
2.1 Purpose and Scope

The Phase II Site Assessment was performed to determine if soil and/or groundwater in the State Trunk Highway (STH) 77 right-of-way has been impacted by the possible release of petroleum products from past operations on the Thomas Abandoned Service Station site. Highway construction is currently being proposed for STH 77 through the City of Montreal, to Hurley, WI. The Thomas Abandoned Service Station Site is located within the right-of-way of the proposed construction (see Figure 2-1). Current construction plans include increasing the width of the urban section of STH 77 from 22 to 36 feet, resurfacing the roadway and installing storm sewers. This assessment was conducted for Level One, Inc. on May 24-26 as part of WDOT Project I.D. # 9250-09-00.

The assessment for this site consisted of the following:

- * a review of the site history,
- * a review of topographic maps, United States Geological Survey (USGS) Water Resources Maps, soils and bedrock identification maps,
- * interviews of people familiar with the site,
- * a review of regulatory lists,
- * a reconnaissance inspection of the site and surrounding area to identify potential contamination sources,
- * the advancement of two soil borings, SB-5 to 7 feet below grade (bg) and SB-6 to 12 feet below grade (bg),

- * field screening of subsurface soil samples every 2.5 feet in depth for the presence of Petroleum Organic vapors and for visual evidence of petroleum contamination,
- * collection and lab analysis for GRO and DRO of one subsurface soil sample from each boring, plus one duplicate sample,
- * collection of lab analysis for PVOC of one groundwater sample, plus one duplicate sample.



SITE LOCATION

Thomas Abandoned Service Station Site

FIGURE 2-1



2.2 Site Description and History

The Thomas site is located approximately 2 tenths of one mile north of the Montreal City Hall on STH 77 in the NW 1/4 SW1/4, Sec. 27, T 46N R2E, City of Montreal, Iron County, Wisconsin. The site is owned by Mr. Bill Thomas of 24 Nimikon, Gile, WI, (715) 561-5314. The site consists of one building, a single story service station with two service bays. The sites is not presently being use. The north side of the site is bounded by STH 77 and the adjacent properties to the east and west are undeveloped woods. The Montreal River runs along the south side of the property. The site is illustrated in Figure 2-2.

From an interview with the site owner, Bill Thomas, Mr. Steven Palzkill of Enviroscience, Inc., determined that:

- * the site has been inactive since 1989,
- * previous to 1989 the site operated as Sarri Brothers Service Station, but the investigator was unable to determine the date the station began operations,
- * Two 1000 gallon gasoline storage tanks are still in place at the site.

2.3 Geologic/Hydrogeologic Setting

The City of Montreal is in the northern part of Iron County in the Lake Superior Basin. The subsurface geology in this area is composed of Precambrian crystalline rocks (undifferentiated igneous and metamorphic rocks to the south of Montreal and basaltic lava flows to the north). The soils are Quaternary ground moraine (glaciolacusterine unstratified clay, silt, sand, gravel, and cobbles). Bedrock is

encountered at an average depth of 10 feet. The topography is deeply dissected lake plane. Ground water in the area of the site generally flows toward the Montreal River.

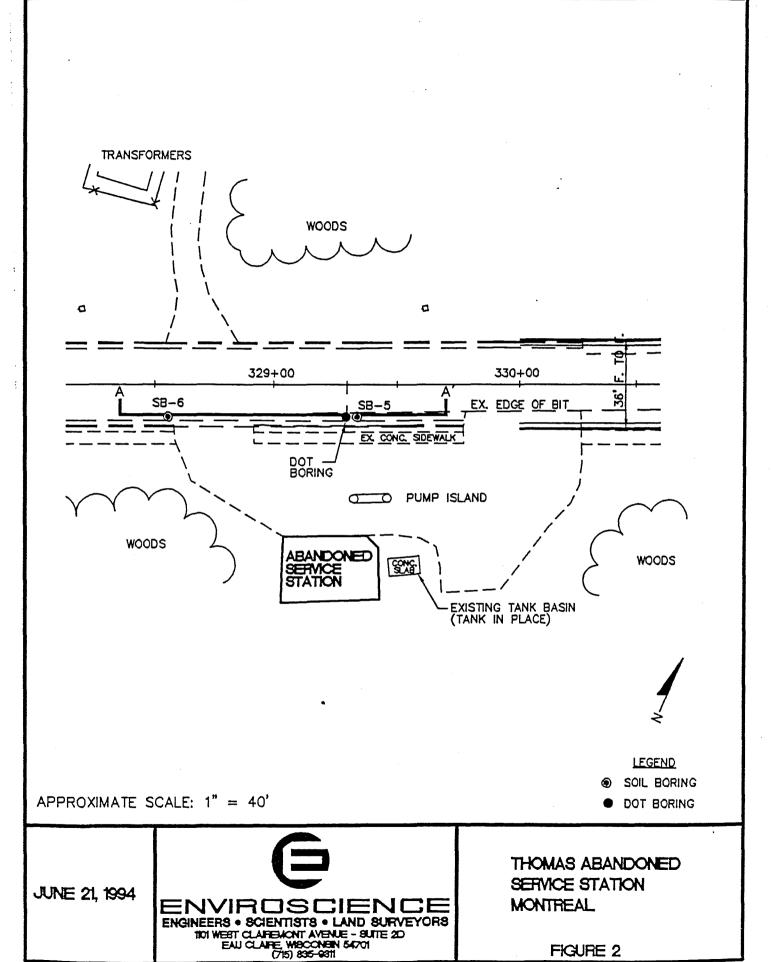


FIGURE 2

2.4 Regulatory Review

A record search was performed to uncover any previous spills or other enforcement actions that may have been reported on or around the Thomas Site. The search referenced the Wisconsin Department of Industry, Labor and Human Relations (WDILHR) Computer Inventory of Underground Petroleum Storage Tanks. The Thomas UST's were not, but should have been, listed on this inventory.

The Wisconsin Department of Natural Resources (WDNR) Leaking Underground Storage Tank (LUST) List and the WDNR Statewide Spills and Hazardous Incident Report were reviewed. One active LUST site was identified within the area at the Montreal City Hall. The Montreal River separates the two sites so any ground water or soil impact on the Thomas Site from the City Hall site is not anticipated.

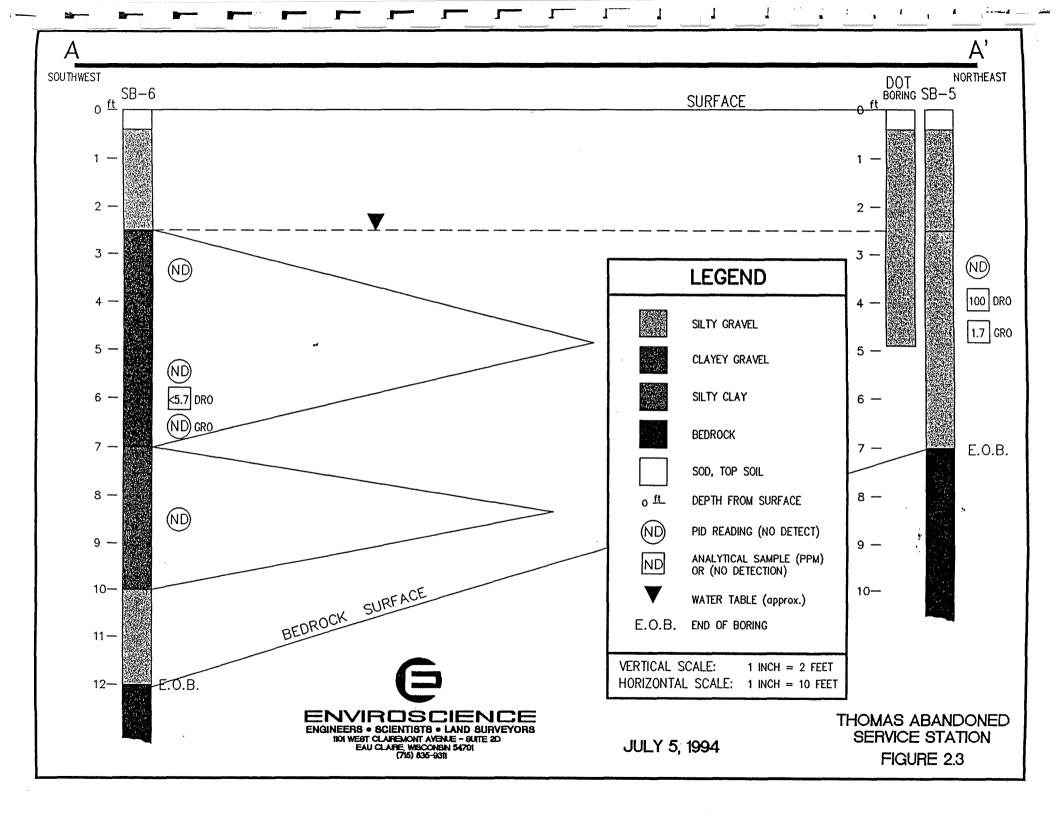
2.5 Sampling Procedures and Locations

Two soil borings (SB-5 and SB-6) were advanced using a hollow stem auger drill rig and one sample from each boring was collected using split-spoon samplers and one duplicate sample was also taken (See Appendix D). Boring locations are illustrated in Figure 2-2.

Ground water was encountered at approximately the 2.5 to 4.5-foot (bd) in both soil borings. A screened well casing was placed within SB-6 for use as a temporary monitoring well. Two ground water samples were collected from SB-6 using a disposable bailer. The second sample was taken as a duplicate. The ground water samples were tested for the presence of PVOC's. No PVOC's were detected in the SB-6 ground water samples.

A photoionization detector (PID) was used to field test for presence of organic vapors. The results of the field screening are illustrated in Table 2-1.

The technical procedures followed for collecting soil, field screening of samples, laboratory testing of samples, maintaining security and integrity of the samples, and procedures used for sample identification and chain of custody are included in the Appendices.



2.6 Analytical Results

2.6.1 Field Screening

Subsurface soil samples were screened for presence of organic vapors using a calibrated PID following the methodology in Appendix D. A summary of field screening results are illustrated in Table 2-1.

TABLE 2-1
SOIL GAS FIELD SCREENING

BORING NUMBER	DEPTH (ft)	PID RESPONSE (ppm)	MOISTURE	PETROLEUM ODOR
SB-5	2.5-4.5	ND	WET	NONE
SB-6	2.5-4.5 5.0-7.0 7.5-9.5	ND ND ND	WET WET WET	NONE NONE NONE

2.6.2 Results of Laboratory Chemical Analysis of Samples

The laboratory analysis of soil sample SB-5 indicated a concentration of DRO at 100 ppm (the WDNR remedial action limit is 10 ppm). Both samples analyzed from SB-6 yielded concentrations of DRO below the laboratory detection limit. GRO in all three samples were not detected. The results of the laboratory analysis of the soil samples are illustrated in Table 2-2 below.

TABLE 2-2 SOIL SAMPLE CHEMICAL ANALYSIS.

SAMPLE NUMBER	SAMPLE DEPTH (ft)	COLLECTION DATE	DRO ppm	GRO ppm	SOLIDS (%)
SB-5	2.5 - 4.5	5-24-94	100	1.7	87.5
SB-6	5.0 - 7.0	5-24-94	<5.7	<1.1	87.1
SB-6 (dupl.)	5.0 - 7.0	5-24-94	9.4	<1.1	87.1

PVOC's were not detected in ground water sample SB-6 above laboratory detection limits. The results of laboratory analysis of ground water samples are illustrated below in Table 2-3.

TABLE 2-3
GROUND WATER SAMPLE ANALYSIS

SAMPLE NUMBER	COLLECTION DATE	PVOC's (ug/L)
SB-6	5-25-94	<1.0
SB-6 (dupl.)	· 5-25-94	<1.0

2.7 Conclusions

This section discusses field observations and analytical data pertaining to observed or potential contamination that may be attributed to the Thomas Abandoned Service Station, Montreal, Wisconsin.

The site history and site inspection revealed that commercial activities have taken place at this site since an unknown date. Two gasoline UST's are located on this site which operated as a service station until 1989. No evidence of petroleum spills (e.g. stressed vegetation, stained soils) was observed during the site inspection.

PID field screening of headspace samples from soil borings did not suggest the presence of organic vapors at levels above background for the site. No visual or olfactory evidence of petroleum contamination was observed.

Laboratory analysis revealed DRO concentration of 100 ppm at a depth of 2.5 to 4.5 feet (bg) in soil boring SB-5. This level of contamination exceeds the 10 ppm WDNR remedial action guideline for petroleum impacted soils. Additionally a concentration of 1.7 ppm GRO was encountered in boring SB-5, but this level is below the remedial action guideline. Soil boring SB-6 showed a detection of DRO contamination of 9.4 ppm at the 5.0 to 7.0-feet (bg). This level is above background but below the remedial action limit.

Based on the results of field screening and laboratory analysis, the areas near soil boring SB-5 which are anticipated to be encountered during construction activities in the STH 77 right-of-way at this site are impacted by DRO at a concentration sufficient to require additional work.

Field observation of ground water did not indicate any obvious signs of contamination (e.g. odor, petroleum sheen, or discolorations). Laboratory results did not indicate the presence of any PVOC. Ground water was encountered at a depth of 2.5 to 4.5 feet (bg). The current construction plans for the highway do include excavating at depths sufficient to encounter ground water.

Mr. Chris Sarri of WDNR, Northwest District was notified of the release on June 20, 1994. Mr Sarri indicated that a responsible party letter would be issued to the property owner. The possibility exists that the property owner may not respond in a timely manner. Delay of the proposed highway construction project may occur as a result.

2.8 Recommendations

Based on the results of this investigation, Enviroscience recommends additional investigation of soil contamination in the anticipated construction zone (surface to five feet) within the WDOT right-of-way at this site. It should be noted that a 100 ppm level of DRO was identified in the 2.5 to 4.5-foot zone of SB-5. The

WDNR remedial action guideline for DRO and GRO soil contamination is 10 ppm. Also a low level of GRO, 1.7 ppm, was identified in SB-5 in the 2.5 to 4.5-foot zone. DRO were also detected (9.7 ppm) in the 5.0 to 7.0-foot zone of SB-6. It is possible that higher concentrations of DRO and GRO exist on the site in areas that were not investigated.

The potential exists to encounter soil contamination during construction. The extent and degree of soil contamination within the right-of-way needs to be defined in order to determine the best method of soil handling and remediation.

Sampled ground water did not contain PVOC's, but because the ground water is so close to the surface (within 2.5 to 4.5 feet in both soil borings) impacts to the ground water may exist elsewhere on the site. Current construction plans involve excavation for new storm sewers to a depth of five feet so dewatering may be required. The potential exists to encounter VOC contaminated ground water during this excavation. Crews responsible for dewatering should be prepared to handle VOC impacted ground water if necessary.

At a minimum, if any indication of soil contamination (e.g., petroleum odor) is discovered during construction, A WDOT environmental consultant should be onsite to monitor the excavation and disposal or treatment of the impacted soil.

2.9 Standard of Care

The conclusions contained in this report represent our professional opinions. Our opinions are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Enviroscience observed the degree of care and skill generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Information in this report obtained during interviews was accepted in good faith.

Information in this report obtained through databases is limited to the accuracy of those databases.

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VAPENDICES

Section Three

A Site Photographs

SITE PHOTOGRAPHS

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Southeast	
WEATHER CONDITIONS:	
sunny, dry, 60 degrees	
PHOTOGRAPHED BY:	81.18
Steven Palzkill	
	cone designates SB-6 located in the boulevard portion of sidewalk.
SITE NAME: Thomas Abando	oned Service Station
DATE: 5-26-94	
TIME: 11:07 am	
DIRECTION OF PHOTOGRAPH:	
Due South	
WEATHER CONDITIONS:	
sunny, dry, 60 degrees	
PHOTOGRAPHED BY:	81 :25
Steven Palzkill	

B WDNR Soil Boring Logs and Borchole Abandonment Forms

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Rev. 8-39

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	A Dome of Person of Firm Doing Sealing Work	FOR DNR OR COUNTY USE ONLY Signature		WID Environmental Drilling	Con FOR DNR OR COUNTY USE ONLY Date Received/Inspected District/County
	A Dome of Person of Firm Doing Sealing Work	Case Received/Inspected District/Country			
	WID Environmental Drilling				
	WID Environmental Drilling	Case Received/Inspected District/Country			
	WID Environmental Drilling With State of Source State	Date Recover/Inspected District/Country Loviewer/Logisotor			
	WID Environmental Drilling With Environmental Drilling 6/3/94 Screet of Koute 101 Alderson Street 715 359-7090	Case Received/Inspected District/Country			
	WID Environmental Drilling With State of Source State	Date Recover/Inspected District/Country Loviewer/Logisotor			

C Analytical Results and Chain of Custody



ANALYTICAL REPORT

ENVIROSCIENCE RICK KRONK 6474 CITY WEST PARKWAY EDEN PRAIRIE, MN 55344

Client I.D. No.:1223 Work Order No.:9405000666 Project Name:HURLEY/HWY 77 Project Number:W94001.31 Arrival Temperature:ON ICE Date Recieved: 05/27/94 Report Date: 06/13/94

Sample <u>I.D. #:</u> 67447	Sample <u>Description:</u> SB-5		Date Sampled: 05/24/94
<u>Analyte</u>		Result	<u>Units</u>
Diesel Range Organic Sample contains range organic hy	s-WDNR Modified DRO fractions lighter than diesel drocarbons	100	mg/Kg
Extraction Date DRO		05/27/94 06/02/94	
Gasoline Range Organ Extraction Date GRO	nics- WDNR Modified GRO	1.7 06/01/94	mg/Kg
Analysis Date GRO LUST Total Percent S		06/01/9 4 87.5	%
Sample	Sample		D. 4 G. 11 107/04/04
<u>I.D. #:</u> 67448	Description: SB-6		Date Sampled: 05/24/94
<u>Analyte</u>		$\underline{\mathbf{Result}}$	<u>Units</u>
Diesel Range Organic Sample contains organic hydrocar	s- WDNR Modified DRO one peak before the diesel range rbon window.	< 5.7	mg/Kg
Extraction Date DRO Analysis Date DRO		05/27/94 06/02/94	
Gasoline Range Organ Extraction Date GRO	nics- WDNR Modified GRO	<1.1 06/01/94	mg/Kg
Analysis Date GRO LUST Total Percent S	Solids	06/02/94 87.1	%
Sample <u>I.D. #:</u> 67449	Sample Description:SB-7		Date Sampled: 05/25/94
<u>Analyte</u>	•	Result	<u>Units</u>
Diesel Range Organic: Extraction Date DRO Analysis Date DRO	s- WDNR Modified DRO	36 05/27/94 06/02/94	mg/Kg
Gasoline Range Organ Extraction Date GRO	nics- WDNR Modified GRO	< 1.1 06/01/94	mg/Kg
Analysis Date GRO LUST Total Percent S	Solids	06/02/94 88.8	%

Submitted By:___

Wisconsin DNR Laboratory Certification Number: 157066030 DHSS Certification Number: MW0289



ANALYTICAL REPORT

ENVIROSCIENCE RICK KRONK 6474 CITY WEST PARKWAY EDEN PRAIRIE, MN 55344 Client I.D. No.:1223 Work Order No.:9405000666 Project Name:HURLEY/HWY 77 Project Number:W94001.31 Arrival Temperature:ON ICE Date Recieved: 05/27/94 Report Date: 06/13/94

Sample Sample <u>I.D. #:</u> 67450 <u>Description:</u> SB-8		Date Sampled:05/25/94
Analyte	Result	<u>Units</u>
Diesel Range Organics- WDNR Modified DRO Sample contains two peaks before the diesel range organic hydrocabon window.	< 5.5	mg/Kg
Extraction Date DRO Analysis Date DRO	05/27/94 06/02/94	
Gasoline Range Organics-WDNR Modified GRO Extraction Date GRO	< 1.1 06/01/94	mg/Kg
Analysis Date GRO LUST Total Percent Solids	06/02/94 90.8	%
Sample Sample Sample		D . C . 1 105/04/04
<u>I.D. #:</u> 67451 <u>Description:</u> SB-6 DUP		Date Sampled: 05/24/94
Analyte	Result	<u>Units</u>
Diesel Range Organics- WDNR Modified DRO Extraction Date DRO Analysis Date DRO	9.4 05/27/94 06/02/94	mg/Kg
Gasoline Range Organics- WDNR Modified GRO Extraction Date GRO Analysis Date GRO	<1.1 06/01/94 06/02/94	mg/Kg
LUST Total Percent Solids	87.1	%
Sample Sample <u>I.D. #:</u> 67452 <u>Description:</u> SB-1		Date Sampled: 05/24/94
Analyte	Result	<u>Units</u>
Methyl t-Butyl Ether Benzene Toluene Ethylbenzene m & p- Xylene o-Xylene 1,3,5-Trimethylbenzene 1,2,4-Trimethylbenzene Analysis Date PVOC	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L

Submitted By:

Wisconsin DNR Laboratory Certification Number: 157066030 DHSS Certification Number: MW0289



ANALYTICAL REPORT

ENVIROSCIENCE RICK KRONK 6474 CITY WEST PARKWAY EDEN PRAIRIE, MN 55344

. . Client I.D. No.:1223 Work Order No.:9405000666 Project Name:HURLEY/HWY 77 Project Number:W94001.31 Arrival Temperature:ON ICE Date Recieved: 05/27/94 Report Date: 06/13/94

Sample <u>I.D. #:</u> 67453	Sample <u>Description:</u> SB-3		Date Sampled: 05/25/94
<u>Analyte</u>		Result	<u>Units</u>
Methyl t-Butyl Ether Benzene Toluene Ethylbenzene m & p- Xylene o-Xylene 1,3,5-Trimethylbenzer 1,2,4-Trimethylbenzer Analysis Date PVOC	ne ne	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Sample <u>I.D. #:</u> 67454	Sample <u>Description:</u> SB-6		Date Sampled:05/25/94
<u>Analyte</u>		Result	<u>Units</u>
Methyl t-Butyl Ether Benzene Toluene Ethylbenzene m & p- Xylene o-Xylene 1,3,5-Trimethylbenzer 1,2,4-Trimethylbenzer Analysis Date PVOC	ne ne	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L
Sample <u>I.D. #:</u> 67455	Sample Description:SB-6 DUP		Date Sampled: 05/25/94
<u>Analyte</u>	•	Result	<u>Units</u>
Methyl t-Butyl Ether Benzene Toluene Ethylbenzene m & p- Xylene o-Xylene 1,3,5-Trimethylbenzer 1,2,4-Trimethylbenzer Analysis Date PVOC	ne ne	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L

Submitted By:

Wisconsin DNR Laboratory Certification Number: 157066030. DHSS Certification Number: MW0289



ANALYTICAL REPORT

ENVIROSCIENCE RICK KRONK 6474 CITY WEST PARKWAY EDEN PRAIRIE, MN 55344 Client I.D. No.:1223 Work Order No.:9405000666 Project Name:HURLEY/HWY 77 Project Number: W94001.31 Arrival Temperature:ON ICE Date Recieved: 05/27/94 Report Date: 06/13/94

Sample <u>I.D. #:</u> 67480	Sample Description:TRIP BLANK		Date Sar	mpled:05/25/94
<u>Analyte</u>		Result	<u>Units</u>	
Methyl t-Butyl Ether Benzene Toluene Ethylbenzene m & p- Xylene o-Xylene 1,3,5-Trimethylbenzer 1,2,4-Trimethylbenzer Analysis Date PVOC Sample pH was 6 vial (6 mm diame	ne 3.5. Air bubble present in sample	<1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	



Chain of Custody: MID-STATE ASSOCIATES, INC. 1-800-228-3012 12. unge irt
Baraboo, WI 53913
(608) 356-2760
FAX: (608) 356-2766

Is this a PECFA project? (Please indicate "yes" or ("no")

SAMPLE COLLECTOR: S. Palzkill COMPANY: Envirascience						avica Science	TELEPHONE NUMBER (INCLUDE AREA CODE): 7/5 - 835 - 93//				
PROJECT NUMBER: W94001.31 PROJECT NAME: Hycley / Hwy 77											
I I WREBY CERTIFY THAT I RECEIVED; PROTERLY HANDLED, AND DISPOSED OF THESE SAMPLES AS NOTED BELOW:											
INVOICE ADDRESS (MUST BE COMPLETED): SUITE 20 5470/ REPORT ADDRESS (MUST BE COMPLETED): 1101 West Clairemont Av Eur Claire; WF 1101 West Clairemont Ave Suite 20 BH Eng Claire wT 5470/											
						1101 West Claireme	snt Ave suite 20 39 Enu	Clare	DATE OF THE OF	DATE/TIME OF RECEPTION:	
DATE & TIME OF RELINQUISHMENT: RELINQUISHED BY (SIGNATURE: 1)						Riel	RECEIVED BY (SIGNATURE):		DATE TIME OF REAL TION.		
DATE & TIME OF			RELINOU	ISHED BY (SIGNATURE):		RECRIVED BY LABORATORY(SIGNATURE):			DATE/TIME OF RECEPTION:	
					_		Lorse			11:00	
FIELD ID	DATE	ПМЕ	SAMI		PRESERV.	I COATTON ENTON INTON	TYPE OF ANALYSIS REQUIRED (PLEASE CIRCLE)	Free W/MBOH?	OF CON-	LAB	
NUMBER	1	COLLECTED				LOCATION/DESCRIPTION	THE OF ANALISIS REQUIRED (FLEXOR CIRCLE)	7C II ya	TAINERS	I.D.	
NUMBER	COLLECTED	COLLECTED	TYPE	DEVICE	GRO-			X.11/G	4-60		
53-1	5-24-44	10:14 AM	۲۱		Mathanol		DR GRO GROVPVOC PVOC PS CA SSOLIDS FLASHPOINT		Amber	67443	
313-1	J X	וטיוע אייו	2011	Grub			VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH			0 1443	
SB-2	ا ممیر موا	411.17.4			<u>ن۹٥-</u>		DROGRO GROIPVOC PVOC P6 C6 %SOLIDS FLASHPOINT		4-60	1 - 11111	
30.7	5-24-99	11:1610	Soil	6546	Methanol	7.5-9.5	VOC-LUST VOC-8021 SIEVE #200SIEVE PAINT FILTER PAH			67444	
(0 7		0.00			GRO	53-3 at City Hall	ord Gropvoc pvoc ps ca asolids flashpoint		4-60	اس ر ر ر ر ر	
SB-3	5-24-94	2:30pm	501	6100	Methanol	8.0-10.00	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH		Amber	67442	
				1	GRO	5B-4 at City Hall	DRO GROYGROPPUOC PUOC PL CE SOLIDE FLASHPOINT		4-60		
58-4	15-24-94	3:08pm	Scil	Grab	Methoral	7.5 - 9.5	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH		Anber	67446	
10 -					GRO	5B-5 at Abandoned	DRO GRO DROVPVOC PVOC PL CA SSOLIDS FLASHPOINT		4-60		
SB-5	5-24-94	14.00pm	Soil	Grab		Gasstation 2.5-4.5	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH		Amber	67447	
	ĺ		1		10-		DROYDROYDVOC PVOC PS CS SOULDS PLASHPOINT		4-60		
513-6	5-24-94	4:30pm	Sal	Grab	Methonal	Gassletien 5:0-7:0	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH		Anbe	67448	
/ ^ _					GRO	SB-79+ KODACZ	OROGRO/PROC PVOC PS CS %SOLIDS PLASHPOINT		3-40	_	
SB-7	5-25-94	11:1547	Soil	Goah		Garge 2.5-4,5	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH		Ambic	674419	
	9	111111	00	SIG V	GRO		ORD GRO GROAVOC PVOC P. C. SOUDS FLASHPOINT		4-40		
SB-8	5-75-44	10:17AM	Soil	Grub	Method	Garage 5.0-7.0	ρ		MI Amber	67450	
S 0 - (a					6RO		VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH		4-60	<u>w</u>	
D4P	5-24-41	4:30	Soil	Grab			DRO GRO GROVPVOC PVOC P6 C4 %SOLIDS FLASHPOINT		Amber	62451	
097		1.00		-	<u>त्राक्ताः</u>	Station 5:0-1.0 Dypicate	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH		Amber	9.101	
							DRO GRO GROVPVOC PVOC Pb Cd %SOLIDS PLASHPOINT				
CAMBIE	1 225811511	F1738107/2	38.08	CKITC	<u> </u>		VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH				
SAMPLE CONDITIONS/COMMENTS:						E .	RRIVAL IPERATURE				
I - DE	1								I IEM	II ERATURE	
1 - 11 - 17 - 17 - 18	J								ons'	DEG. C	



Chain of Custody:
MID-STATE ASSOCIATES, INC.
1-800-228-3012

1250 Lange Court
Baraboo, WI 53913
(608) 356-2760
FAX: (608) 356-2766

Is this a PECFA project? (Please indicate "yes" or "no")

SAMPLE COLLECTOR: S. Patzkill COMPANY: Enviroscience					NY: En	viriosciance	TELEPHONE NUMBER (INCLUDE AREA CODE): 715 - 835 - 9311				
	PROJECT NUMBER: W94061.31 PROJECT NAME: Harley / Hwy 77										
						OPTHESE SAMPLES AS NOTED BELOW:					
						REPORT ADDRESS (MUST BE COMPLETED):	_				
Ave Sude	30 E	y Clase	ورب	JI 54	4701	1101 wost claire	ment Ave Suite 20 Equ	Claire,	WI:	54701	
5-26-9		ENT: OO AM	RELINOU	ISHED BY (signature):	îl	RECEIVED BY (SIGNATURE):			DATE/TIME OF RECEPTION:	
		RELINGL	USHED BY (SIGNATURE):		RECRIVED BY LABORATORY(SIGNATURE):			ofreception:		
					1			CAR ORE ONLY	NOTTYPE		
FIELDID	DATE	Time	SAM	PLE	PRESERV.	LOCATION/DESCRIPTION	Type of analysis required (please circle)	Prot. W/MBOH7	OF CON-	LAB	
NUMBER	COLLECTED	COLLECTED	TYPE	DEVICE	TYPE			ncitya .	TAINERS	I.D.	
						Temp. Well located	DRO GRO GRO/PVOC/PVOC/Pb Cd %SOLIDS PLASHPOINT	Small,	3-40	_	
53-1	5-24-94	5:30pm	Water	Grab	HCL	at 50-1. Post office	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH	bushee in		67452	
						Tamp. well at SB-3	DRO GRO GROPPOO PLOG PLO SOLIDS PLASHPOINT		3-40		
50-3	5-25-94	12:30pm	water	Grab	HCL	City Hall	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH			67453	
	1		1			Temp well at SB-6	DRO GRO GRO/PVOC/PVOC Pb Cd %SOLIDS PLASHPOINT		3-40		
5B-6	5-25-94	11155AM	woder	Gab	Hch	Abandoned Gas Station	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH		VIGI	67454	
(0 (1	1	1	· · · · · · · · · · · · · · · · · · ·	DRO GRO GRO/PVOQ PVOQ Pb Cd %SOLIDS FLASHPOINT				
5B-6 Dyp	5-25-94	12:14pm	water	Grab	HCL	Temp well at SB-6	VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAIN		3-40	67455	
<u> </u>					-	Abandonel Gos Station	7		VIGI	w 1 (30	
						TRIP Blank	DRO GRO GROPVOC PVOC P6 C4 %SOLIDS FLASHPOINT			67480	
ļ			 -				VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH			0 1 100	
				1			DRO GRO GROAPVOC PVOC Pb Cd %SOLIDS FLASHPOINT				
}					}		VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH				
							DRO GRO GROVPVOC PVOC Pb Cd %SOLIDS PLASHPOINT				
							VOC-LUST VOC-8021 SIEVE #200SIEVE PAINTFILTER PAIN		-		
				ĺ			DRO GRO GRO/PVOC PVOC P6 Cd %SOLIDS PLASHPOINT			•	
							VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAH				
							DRO GRO GRO/PVOC PVOC P6 C4 %SOLIDS PLASHPOINT				
							VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAIN				
1							DRO GRO GRO/PVOC PVOC Pb Cd %SOLIDS PLASHPOINT				
							VOC-LUST VOC-8021 SIEVE #200 SIEVE PAINT FILTER PAIN				
SAMPLE	CONDI	TIONS/C	OMM	ENTS					A	RRIVAL	
1 - Joseph]								TEM	PERATURE	
1	}								3.1	LCO DEG.C	
	ut.								<u> </u>	- V DEG. C	

D Standard Sampling and Analytical Procedures

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D-1 Drilling and Soil Sampling

Drilling operations were performed by WTD Environmental Drilling, Schofield, Wisconsin, utilizing a truck mounted drill rig.

Split-barrel soil sampling in the standard penetration soil borings was performed using hollow-stem auger techniques in accordance with ASTM:D1586-84. Using this procedure, a 2" O.D. split barrel sampler was driven into the soil by a 140 lb. weight falling 30". Laboratory analysis samples were removed from the split-spoons using clean, stainless steel utensils and placed in laboratory supplied jars. After each sample was removed, the split-spoon was washed in an Alconox™ detergent and tap water solution, then rinsed with distilled water.

D-2 Soil Classification

As the samples were obtained in the field, they were visually and manually classified by the crew chief and site geologist in accordance with ASTM-D2488-84. Representative portions of the samples were then returned to the office for further examination and for verification of the field classification. Logs of the standard penetration borings were prepared indicating the depth and identification of the various strata, water level information and pertinent information regarding the method of maintaining and advancing the drill holes (Appendix B).

D-3 PID Calibration and Field Screening Procedures

The photoionization detector (PID) was used to monitor soil gas in samples for Volatile Organic Compounds (VOC's). The PID measures VOC's in equivalent ppm of benzene. Soil gas readings were taken at 2.5-foot intervals using the headspace method. Samples were put into heavy duty Ziploc™ bags and placed in (or out) of the sun and allowed to equilibrate to approximately 70° F. After equilibration the PID probe was inserted into the bag headspace and the reading was taken.

The PID was calibrated at the beginning of the day and at the completion of drilling, with the following information having been recorded:

Span Setting:

9.80

Beginning Reading: 57.4 ppm

Ending Reading:

57.9 ppm 57 ppm Isobutylene

Calibration Gas: Model:

hNu Model 101

Probe:

10.2 eV Lamp

Air Temperature:

45° F

D-4 Temporary Monitoring Well Installation

The shallow temporary monitoring well was installed by placing a PVC screened well casing within the boring.

D-5 Monitoring Well Groundwater Sampling

Groundwater samples were collected using dedicated, bottom-loading, disposable plastic bailers and new nylon rope. The water samples for BETX analyses were

collected in 40 ml, laboratory-cleaned, glass purge-and-trap vials with Teflon-lined, septum-sealed caps containing HCl as a preservative.

D-6 Laboratory Analysis

All sample containers were placed in an ice-filled cooler immediately after collection and transported to Mid-State Associates, Inc., in Baraboo, Wisconsin, in the cooler. The samples were accompanied by proper chain-of-custody forms.

Gasoline Range Organics (GRO) was performed by utilizing the Wisconsin GRO method. Diesel Range Organics (DRO) was performed by utilizing the Wisconsin DRO method. Petroleum Volatile Organic Compounds (PVOC) was performed utilizing gas chromatography according to SW-846, Method 8020.

D -7 Borehole Abandonment and Soil Cuttings Disposal

The temporary monitoring well was dismantled and both soil borings were completely backfilled with bentonite. A WDNR borehole abandonment form for each borehole is included with this report.

From field screening and olfactory perception there was no indication of the presence of petroleum constituents in the soil cuttings from either borehole. For this reason all soil cuttings were spread over the grassed area of the boulevard.

•

APPENDIX C

UNDERGROUND STORAGE TANK REMOVAL DOCUMENTS

SGS EnvironmentalContracting, LLC



N2570 Daytona Drive MERRILL, WI 54452 1-800-261-2803 715-539-2803 Fax 715-539-2661

> Jay A. Schlueter CELL (715) 218-1001

jschlueter@hughes.net







EXCAVATIONS





CERTIFICATE OF UNDERGROUND STORAGE TANK DISPOSAL

On September 15th, 2010, SGS Environmental Contracting LLC, completed the removal of (2) Underground Storage Tanks: (2) – 1,000 gallon Unleaded Gas UST's for:

Former Thomas Service Station 55 Wisconsin Ave. Montreal WI 54550

One drum of sludge was generated at the job site and disposed of by:

Chief Waste Treatment Corporation

210 Tower Rd

Winneconne, WI 54986

Water product in the tank was pumped and disposed at the Gogebic –Iron
Wastewater Treatment Facility
700 W. Cloverland Dr.
Ironwood MI 49938

SGS Environmental Contracting LLC, disposed of the tanks at:

Schulz's Recycling Inc. W6059 Heldt St. Merrill, WI 54452

Jay A. Schlueter

Project Manager

SGS Environmental Contracting LLC, N2570 Daytona Drive, Merrill, WI 54452 715.539.2803 Fax 715.539.2661 jschlueter@hughes.net

TDID#: 3.7:	UNDER
PalosPE : #alat	FLAMMABLE/COMB
Reg Obj #:	LIQUID STORAGE
	Information Required Ru

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Send Completed Form To: Department of Commerce Bureau of Potroleum Products and Lanks 1.01.80x 7837

Reg Obj #:	i	STORAGE TAN			Tanks P.C. Box 7837	
Underground tanks in Wisconsin that		ation Required By Secti			Madison WI 53707-7837	
is confect for each talk. Send caus	congreted torc	for the agent a detainate	AG at November 1981 to a	mar may	Elwards of say they are	
i in in a dienting a foret? 📝 Yes	No Hiyes	ant you correcting upda ie may be used for seconda	ned blaceator and	. ♦ Ye	9 No	
The registration applies to a lank status	that is (check one	*			Fire Department providing the	
☐ In Use ☐ Newly Installed		Tank Removed Filled with Iner: Materials	Ownership Change new owner name in		Zywacango witowo, taokini, ta anno	
Abandoned with Product	☐ Abandor		HENVINVINES HARRES	1 010Cr. 2)	Town of	
Abandoned without Product (empty)	☐ Tempora	arity Out of Service - Provide	e Date		Montreal	
A. IDENTIFICATION (Please Print) 1 Tank Site Name		Site Street Address			1 Sata Tarlanda and Name have	
Former Thomas Service Sta	ation	55 Wisconsin Ave	a		Site Telephone Number ()	
	Cown of	State	Zip Code		County	
Montreal		WISCONSIN	54550		Iron	
2 Tank Owner Name		Mentalanier	104000		Telephone Number	
Iron County Garage		1300 Tuesas	5. 7 .		()	
	own of	State	Zip Code		County	
Montreal		l _{wi}	54550		Iron	
3 Property Owner Name (if different the	an tank owner)	Properly Owner Address			110;1	
D. Challen		C		10	D	
B. Site ID #:		Facility ID #: 57300			ner ID #:	
C Tank Capacity (gallons) 1000		Tank Age (age or date in	stalled)	1	Vehicle fueling 🗷 Yes 📋 No	
D. LAND OWNER TYPE (check one) County State Federal		Federal Owned 🔲 Triba	al Nation 🔲 Munici	pal [] O	ther Government 📗 Private	
E. OCCUPANCY TYPE (check one)	Refer to back					
Relail Fuel Sales Bulk Storage Agricultural (crop or livestock product					Residential [] School Other (specify:)	
F. Tank Construction:	tainless steel] Steet - Ewerolase Reinfa	rced Plastic Composite	Over	fill Protection? 💮 Yes 🖥 No	
	ther (specify)	,	•	:	Containment? Thes Mo	
	acrificial Anodes	[] Impressed Current	SP N/A		uble Walled? Yes 🔐 No	
H Primary Tank Leak Detection Meth		Cl sulvessed criteria		1 4114 00	doe wated? [] es @ .eo	
Automatic tank gauging Inte	erstitizt monitoring				er monitoring \ \ \textstyre \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Manual tank gauging (only for tan I Piping Construction:	ks of 1,000 gallant	s or less) [] Statistic	ai Inventory Reconcilia	tion (SIR)	⊠ Unknown	
☐ Bare Steel 🔀 Coated Steel 🗍		··		HOWEN [
J. Piping Cathodic Protection.	Sacrificial Anode:	impressed Current	∠ N/A ;	Pipe Dou	ble Walled? 🔲 Yes 🐺 No	
K. Primary Piping System Type: Suction piping with check valve a		rwith 🖟 A 🔲 auto shutof action piping with check val			ctor Unknown Not needed if waste eil	
L. Piping Leak Detection Method: (use	ed if pressurized of apor monitoring	check valve at lank). [] Interstitial monitorii	SIR Tightnes		Electronic line leak monitor Unknown	
		Flexible Other	CARP		23 Charter	
Operational - Provide Date (mo./d	lay/уг.):		erational - Provide Dat	e (mo./day	(yr.):	
N. TANK CONTENTS (Current, or pre	vlous product (if	tank now empty))		·		
☐ Leaded	ohol 🗌 E85 (Diesel Bio-diesel	☐ Aviation ☐ Pre	mix 🗍 F	uel Oil 🔲 Kerosene 📋 New Oil	
☐ Waste/Used Motor Oil ☐ Haz	ardous Waste*	☐ Unknown ☐ Empty* [☐ Sand/Gravel/Slury*	Othe	r (specify).	
Chemical* Name				CAS#.		
* NOT PECFA eligible		Geo La	titude:	G	ec Langitude:	
O. If Tank Closed, Abandoned or Out Give date (moldaylyr): 7 - 7		Has a s	ite assessment been		d? (see reverse side for details)	
Tank Owner Name (please print):						
Iron County Wisconsin (County board Chairman Hennis De Rosso)						
Tank Owner Signature Hotel By signing	g. signer is accept	ig teget land from all resur	majorifation that a substitute	विकास प्राप्त	Date	
Necinis	Ve Le	ceo			10/18/10	

TDID#:	39600 5
Reg Ob	j#:

UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Send Completed Form To Department of Commerce Bureau of Potroleum Products and Fanks P.C. Box 7837

Inform	ation Required E	By Section 1	01.142, Wis. Stats.		Madison, VM 53707-7837
Underground tanks in Wisconsin that have stored or	currently store p	etroleum or	regulated substanc		if be registered
To the tenths each tank. Send each completed form	to the agents, to	englisteria	the partial assu	11.350	$(\boldsymbol{X}, \boldsymbol{w}, w$
ers it secretaring a form 1. (A Yes - 1711 No. It ses Personal information you provide	te may be used for	i grupaan g Isecondary ol	inneses (Private Law)	♥ 7 # 5< 35 04	i Mg Littigal
Tills registration applies to a tank status that is reheck on-			read to the state of the state	1	Fire Department providing to a
	Tank Removed		wnership Change (Inc		Coverage where box of cat a
	Filled with Inert Ma Nation with Water	atensis n	iew owner name in blo	ick 2) (City Village Town of:
	arily Out of Service	- Provide Dal	e:		Montreal
A. IDENTIFICATION (Please Print)					
1. Tank Site Name	Site Street Addr			1	Site Telephone Number
Former Thomas Service Station	55 Wiscons	sin Ave.			
	State		Zip Code	Ì	County
Montreai	WISCONS		54550		Iron
2 Tank Owner Name	Mailing Address			-	Telephone Number
Iron County Garage	300 IV	10 41 1:	5.大		()
City Village Town of.	State		Zip Code		County
Montreal	WI		54550	Ì	Iron
3 Property Owner Name (if different than tank owner)	Property Owner	Address if diff	erent than #1		
B. Site ID #:	Facility ID #: 5	7300	C	ustom	er ID #:
C. Tank Capacity (gallons): 1000	Tank Age (age o		di:	1,	/emicle facting: Yes This
	1			1	the state of the s
D. LAND OWNER TYPE (check one) Refer to back County State Federal Leased	Federal Owned	Tribal Na	non [] Municipal	Пои	her Government 💮 Private
	· doctor office	1 11.100. 110	C. Tribinopo.		- Severiment
E. OCCUPANCY TYPE (check one) Refer to back Retail Fuel Sales Bulk Storage Terminal S	Storage Merc	;antile/Comme	ercial [] Industnal		Residential School
Agricultural (crop or livestock production) Backu				y 🗍 🤆	Other (specify:)
F. Tank Construction:					
□ Bare Steel	📑 Steel – Ciberglas	ss Reinforced	Plastic Compusite	Overfi	ill Protection? 🔝 Yes 🆀 No
☐ Fiberglass ☐ Unknown ☐ Other (specify): _		Line	d (date)		Containment? 🔠 Yes 📆 No 💎
G. Tank Cathodic Protection Sacrificial Anodes	☐ Impressed C	Corrent ,	₹N/A Ta	nk Dou	ble Walled? Yes 🖪 No
H. Primary Tank Leak Detection Method:					
Automatic tank gauging Interstitial monitoring Manual tank gauging (only for tanks of 1,000 gallon			ness testing: [] Groi ventory Reconciliation		r monitoring Vapor manitoring Valorinown Valorin
Piping Construction:	13 to 1533/ L.	J (10 10 10 10 10 10 10 10 10 10 10 10 10 1	verticity indeprenduction	10	Z 0
Coated Steel Stainless Steel	[] Fiberglass [] Flexible []	Copper 🗍 Unknov	wn 🖂	NA Diner
J. Piping Cathodic Protection: [] Sacrificial Anode				e Dout	ole Walled? 🔲 Yes 🖨 No
K. Primary Piping System Type:			Character and Clare		M. Harris
			pump and inspectable		dar — 💹 Unknown Not needed it waste ou
L. Piping Leak Detection Method, jused if pressurized of					☐ Electronic line leas monitor
Groundwater monitoring			Not required		2 Unknown
M Vapor Recovery/Stage II	Hemble []	Other:	CARE#		
Operational - Provide Date (mo./day/yr.).] Non-Operati	onat - Provide Date (ri	no.#day/	λι.).
N. TANK CONTENTS (Current, or previous product (i					
☐ Leaded ☐ Unleaded ☐ Gasohol ☐ E85					
	Unknown [] E	Empty" 🔲 Si	and/Gravel/Slurry* [] Other	(specify):
Chemical Name			c	AS#:	
		Geo Latitud			oo Longitude:
NOT PECFA eligible.				:	•
If Tank Closed, Abandoned or Out of Service Give date (mo/day/yr):		nas a site a	ssessment been cor	-	? (see reverse side for details)
Tank Owner Name (please print):		l	<u> </u>		
From County Wisconsin	(1.	1 6 1	Cha	7	No. 10 A . D
	lest fegal and team	ry courd	Harris the state of the	<u> </u>	nuis Dehoso
\mathcal{A}	range organical Section 81	with the second of	Tet total to		mile
Densir De land					10/10/10

Plea	ase print or type. (Form designed for use on elite (12-pitch) typewriter.)						n Approved. O	MB No. 20	050-0039
1	UNIFORM HAZARDOUS 1. Generator ID Number		Emergency Respon	se Phone	4. Manifest				, ,
armitigation,	WASTE MANIFEST S. Generator's Name and Mailing Address	184 1			$_ \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	165	744()	LE
2000			Generator's Site Addres						
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colorados.		1	Mont		idlier	er an diff do	7 84		
İ	Generator's Phone: (7/5) 5%/ 5-4/1-4 6. Transporter 1 Company Name		9 20 229 . 2	A 44 #	U.S. EPA ID	vumber	<u>**</u>	···	
	010 - 110 11	يم از او ا			ŀ	A STATE			
Spoil Break	7. Transporter 2 Company Name	in 2 de l			U.S. EPA ID N				
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Ш	Designated Facility Name and Site Address				U.S. EPA ID I	lumbos	-		
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ĹΙ		of the part to the second of	a series contraction	and the state of	ı				
	Facility's Phone: 1241932-5772					1			
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, II	O Number,	10. Cont	ainers	11. Total	12. Unit	13. Wa	ste Codes	
Western Constitution of the Constitution of th	HM and Packing Group (if any))		No.	Туре	Quantity	Wt./Vol.			
ين	1. Petraleum Tainted Wat	ಕ್ಕು ನ್ಯಾ.					0894		
12			· ·		. مخدر ر	D. 1			······
ER	Non - Nazaratous			OF	1,500	gal	 _		
GENERATOR	2.								
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TO MANUFACTOR	4.								
THAN DO STATE OF THE PARTY OF T	14. Special Handling Instructions and Additional Information								
Ш									
dynamic (re	 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the cont marked and labeled/placarded, and are in all respects in proper condition for tra 								
	Exporter, I certify that the contents of this consignment conform to the terms of the contents			monai governii	entai regulations.	ii export sii	pinent and i am	ule rilliary	y
-000	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if	0 1 70		nall quantity ge	nerator) is true.				
	Generator's/Offeror's Printed/Typed Name	Sign.	ature				Month	Day	Year
\downarrow									
E	16. International Shipments Import to U.S.	Export from U	.S. Port of e	entry/exit:					
F	Transporter signature (for exports only):			ving U.S.:					
ER	17. Transporter Acknowledgment of Receipt of Materials								
TR ANSPORTER	Transporter 1 Printed/Typed Name	Sign	ature			4	Month	Day	Year
SPC									
A	Transporter 2 Printed/Typed Name	Sign	ature				Month	Day	Year
R				_					
 	18. Discrepancy								
	18a. Discrepancy Indication Space Quantity	Туре	Residue		Partial Rej	ection		Full Reject	tion
	Quanty	rijpo	·		randorroj	Couon		T ull Troject	uon
П			Manifest Referen	ce Number:					
E	18b. Alternate Facility (or Generator)				U.S. EPA ID N	lumber			
DESIGNATED FACILITY									
Ā	Facility's Phone:								
品	18c. Signature of Alternate Facility (or Generator)				····		Month	Day	Year
3								1	
195	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous	waste treatment, disposal,	and recycling systems)						
当	1. 2.	3.			4.				
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous mate	rials covered by the manife	st except as noted in Ite	em 18a					
	Printed/Typed Name		ature (2017)	ft see			Month	Day	Year
↓	Mach Breathan	1	Cor of	Bank	and fill the things have street	- Mariable of Tables	9	1.5	10
ED	A Form 8700-22 (Rev. 3-05) Previous editions are obsolete.		ar er tolerint ett.	to superior to the	25 64 25 42		ENEDATOR'S		, - ca*

Plea	se print or type. (Form designed for use on elite (12-pitch) typewriter.)					Forn	Approved.	OMB No.	2050-0039
1	UNIFORM HAZARDOUS WASTE MANIFEST BARTS# 03-26-000788	2. Page 1 of 3. Er	nergency Response	Phone	4. Manifest		umber 744	0 F	FLE
	5. Generator's Name and Mailing Address		ator's Site Address						
	Iron County Wisconsin Zaning Departs 300 Tacon ite St., Hurley, Wiscons	rie m	Former 55 Wis	thom rangi	ias ser n due	y de m			
	Generator's Phone: (7/5) 561-5414 6. Transporter 1 Company Name		Montr				وا		
	6. Transporter 1 Company Name								
	368 Environmental Contracting 1. 7. Transporter 2 Company Name	1C			U.S. EPA ID N	NA			
	7. Hansporter 2 company reame				U.S. EPAID	uniber	· ·		
	8. Designated Facility Name and Site Address		46	12	U.S. EPA ID N		-		
	boyebic-Iron Wastewater Tr 700 W Cloverland Or. Iron	car miss	AP FACI MPP 110	000	MI	OOZ	0125		
	Facility's Phone: (96) 932-5322		- Funds	<i></i>		1		<u> </u>	
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Contair		11. Total	12. Unit	13.	Waste Code	S
			No.	Туре	Quantity	Wt./Vol.		<u> </u>	·
GENERATOR	Petroleum Tainted Water						0291		
ERA	Non-Huzardous		1	DF	1,500	gal			
SEN SEN	2.								
	3.								
	4.								
			1-3				***************************************		***************************************
	14. Special Handling Instructions and Additional Information								
	•								
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this	s consignment are fully	and accurately des	crihed ahove	by the proper shi	nning name	and are clas	eified nack	anad
	marked and labeled/placarded, and are in all respects in proper condition for transport acc Exporter, I certify that the contents of this consignment conform to the terms of the attache	cording to applicable in	ternational and natio						
	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large	ge quantity generator)		II quantity gen	erator) is true.				
	Generator's/Offeror's Printed/Typed Name	Signature	11.222	- M	eng .		Mor	1	Year
낟	16. International Shipments Import to U.S.	Export from U.S.	Port of ent				. 1	<u> </u>	-143}-
TR ANSPORTER INT'L	Transporter signature (for exports only):		Date leavi						
買	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name /	Signature	1161	<u> 2</u> 21 -			Mor	ith Day	Year
ğ	Robert Latzia	1	Z/X	1			19	115	-10
AN	Transporter 2 Printed/Typed Name	Signature	1	7,			Mor	nth Day	Year
E	18. Discrepancy						·		
	18a Discrepancy Indication Space				Do-Falls:			JE 11 D. /	
	Quantity L_Type		Residue		Partial Rej	ection	ι	Full Rej	ection
	18b. Alternate Facility (or Generator)		Manifest Reference	Number:	U.S. EPA ID N	lumbar			
늹	100. Alternate racility (or Generator)				U.S. EFA 10 N	lumbei			
R	Facility's Phone:								
眉	18c. Signature of Alternate Facility (or Generator)						Mo	nth Day	Year
S	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treat	tment disposal and s	oveling evetome)	·				<u> </u>	
DESIGNATED FACILITY	Hazaroous waste Report Management Method Codes (i.e., codes for nazardous waste treat L. 2.	3.	coyoning systems)		4.			······································	
$ \overline{ }$									
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covere Printed/Typed Name		ept as noted in Item	18a			Mo	oth Davi	Voor
	Mark Bowman	Signature	Land	R	may	and the second second	iviol	nth Day	Year
FP/	A Form 8700-22 (Rev. 3-05) Previous editions are obsolete.		of williams	Transfer State		ONIASER	EACH IT	(TO 05)	IFDATOR

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Plea	ON ON THE PROPERTY OF THE PROP	3. Emergency Response Phone	4. Manifest Tracking	
		Generator's Site Address (if differen	nt than mailing address)	The second secon
	Iron County Zoning Dept.	Former Thor	mas Servic	e
District	300 Taconite St	55 Wiscon.	sin Ave	
1	Generator's Phone: 6. Transporter 1 Company Name	Morrir cal.	WI	
構。	Generator's Phone. 6. Transporter 1 Company Name 7. Transporter 2 Company Name 7. Transporter 2 Company Name		U.S. EPA ID Number	
- Company	7. Transporter 2 Company Name	9	U.S. EPA ID Number	
Y Y	Thingsold 2 on party than the second		O.O. El / No Manage	
\prod	8. Designated Facility Name and Site Address		U.S, EPA ID Number	
Continues	BIWTF Toom Cloverland Dr.		MTAG	20125
			14400	, , , , , , , ,
	Facility's Phone: Transmood, MI (906) 932-5.			
overbild designation of the second se	ga. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type	11. Total 12. Un Quantity Wt./Vo	1.3 Wasie Lodes
		7,1		1.20
Ę	Non-Hazardous	20		10294
GENERATOR	Non - Hazardouc	* I DF	500 gas	4 34
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Consequence .	4.			
in a second	14. Special Handling Instructions and Additional Information			
and Comme				
П				
Consequence Consequence	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment an			
	marked and labeled/placarded, and are in all respects in proper condition for transport according to applica Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowle		ernmental regulations. If export	shipment and I am the Primary
родина	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generated Officer's Pictured Name	rator) or (b) (if I am a small quantity ature	y generator) is true.	Month Day Year
Control of the contro	I MI I I MITTING TO LEGISLATION	altire / / / / / / /	11 - 2	أر استرادا
 	16. (international Shipments Import to U.S. Export from U	Port of entrylevity	11 Des Torre Fra	25 10th 155 155 155
ITI	Import to U.S. Export from U Transporter signature (for exports only):	.S. Port of entry/exit: _ Date leaving U.S.:		
IER	17. Transporter Acknowledgment of Receipt of Materials	oluso		Month Day
TR ANSPORTER	Transporter 1 Printed/Typed Name Sign	ature		Month Day Year
SS	Transporter 2 Printed/Typed Name Sign	ature	Train / C	Month Day Year
IRA				
1	18. Discrepancy			
- Commonweal	18a. Discrepancy Indication Space Quantity Type	Residue	Partial Rejection	Full Rejection
A STATE OF THE STA	·			•
ےاٰد	18b. Alternate Facility (or Generator)	Manifest Reference Number	: U.S. EPA ID Number	
등				
Æ	Facility's Phone:			
胆	18c. Signature of Alternate Facility (or Generator)			Month Day Year
SS	40 Hazardana Wasta Danast Managament Mathad Codes (i.e. godes for hazardana weets tractment, disposal	and socialing quaternal		
DESIGNATED FACILITY	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, 1. 2. 3.	and recycling systems)	4.	
Possiprediction of	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manife	<u>.</u>		
	Printed/Typed Name Sign Mark Bowhan	ature IR	mil a	Month Day Year
Ľ.	A Form 9700 22 (Pou 2 05) Provious editions are obsolete	May loon	William	<u> </u>

Complete One Form for Each System Service Event

The information you provide may be used r secondary purposes Privacy Law, s.15.04 (1) (m), Wis. Stats.]

TANK SYSTEM SERVICE AND CLOSURE **ASSESSMENT REPORT CHECK ONE:**

UNDERGROUND **ABOVEGROUND**

FOR PORTIONS OF THE FORM THAT

RETURN COMPLETED CHECKLIST TO:

: 277738888619986:

Wisconsin Department of Commerce ERS Division Bureau of Petroleum Products and Tanks mailing: P.O. Box 7837

Part A - To be completed by contractor performing repair or closure	ĝ.	***			NOT APPLY,			Mad	dison, WI 53707-78	37
Indicate portion of system being serviced if a repair, upgrade or change—in-service is being performed Pennet Pennet Phing Transition/containment sump Spill bucket Dispenser Dispenser Phing Phing Transition/containment sump Spill bucket Dispenser Dispenser Phing	art A -	To be co	mpleted by				-)		
Indicate portion of system being serviced if a repair, upgrade or change—in-service is being performed Pennet Pennet Phing Transition/containment sump Spill bucket Dispenser Dispenser Phing Phing Transition/containment sump Spill bucket Dispenser Dispenser Phing	3									
3. Contact Name 2. Owner Name 2. Owner Name 3. Contact Nam								being perfori	med	
3. Contact Name 2. Owner Name 2. Owner Name 3. Contact Nam		Remote fill	☐ Tank	☐ Piping	☐ Tran	sition/conta	inment sump	☐ Spi	ll bucket 🗖 Dispe	enser
acility Street Address (not P.O. Box) Contact Name	. IDENTI	FICATION	(Please Print)					3,00	25 5 F 1880 - 15
Annicipality Mailing Address City Village Town of: Post Office State Zip Code	distance and	4I.		C	1 (2. Owne	r Name	Commen		
Annicipality Mailing Address City Village Town of: Post Office State Zip Code			1/2 1/2 0 D-	25 (1614 1 7)	40-11-751	1 1	<u> Aluma</u>		mission of the Orderson	1/r/)
Multipality Malling Address 2			•					1	2	/ Job little
City Village Town of: Post Office State Zip Code			COP TO F	1.0.6		Mailing A	ddress	**		
County	Monday	Core Vice	$\alpha = Q_{\mathbf{t}}^{(\mathbf{t})}$.					programme participation of the	The state of the s	Construction of
Decode County County Telephone No. (include area code)								+ - /	State	e Zin Code
Primary Service Contractor Section A above Service Contractor Street Address	ــا (۰۰۰)	,				1 .				
Service Contractor Street Address Service Contractor Street Address Service Contractor Street Address Service Contractor City, State, Zip Code Service Contractor City, State, Zip Code Tank SYSTEM DETAIL (Complete for all service activities) a b c d e f Release System integrity Compromised (cg. Index, Construction Construct	ip Code		County			County	A Paris De la Caración de la Caració		Telephone No. (incli	ıde area code)
Service Contractor Street Address Service Contractor City, State, Zip Code Service Contractor Telephone No. (include area code) Service Contractor City, State, Zip Code	4 *	450	1 1	0		1100	`		()	·
Service Contractor Telephone No. (include area code) Service Contractor City, State, Zip Code Sevice Contractor City, State, Zip Code Service Contractor City, State, Zip Code Service Contractor City, State, Zip Code Sevice Contractor, Sevice Code Cause of Release Code Sevice Contractor, Sevice Code Cause of Release Code Sevice Code Cause City Code Cause of Release Code Cause City Code Cause Code Code Cause Code Cause Code Cause Code Cause Code Cause Code Cause Code Cause Code Cause Code Cause Co					3			eet Address		
TANK SYSTEM DETAIL (Complete for all service activities) a b C d e f Release System integrity Compromised (e.g., holes, cracks, logies, crack	SUNS	Envica	2 Esto son	ant when	lic	1973	5713 JU	a Charles Land	kir i gr	7. KIN35
Tank ID# Type of Ciosure' Construction Const	3 .		•	nclude area co	ode)	1		•		-
Tank ID# Type of Closure! Tank Piping Material of Construction Constru	715	<u>) 535</u>	· 160 Z	The state of the s		Mac	11 11 11 x	5,11123	^4	
Tank ID# Type of Closure! Tank Piping Material of Construction Constru	'A	***					,			
Tank ID# Type of Tank Material of Closure' Material of Closure' Material of Closure' Material of Closure' Material of Construction (gallons) Type of Closure' Material of Construction (gallons) Type of Colored At Construction (gallons) Type of Colored At Colore	8	·				····				
Tank ID # Type of Closure¹ Material of Construction	<u>a</u>	<u>: b</u>	С С	<u>a</u>	: е	1				
Closure Construction Construct	T1. ID #	Type of				Contento ²			of Rel	ease ⁵
Close V N N N N N N N N N	ank ID#	Closure ¹	•			Contents				
Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, Indicate type of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other A. Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other A. Cause of release: S = spill, O = overfill, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other As release been reported to the Department of Natural Resources?		- 71 -			<u> </u>					:
Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, X = Premix, WO = Waster/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s): AS number(s):	18866		Deel.	Meel	1000	V6	L			
Y	12265	P	Steel	deet	1000	116	∐ Y ∃	L⊪N		
Indicate type of closure: P = Permanent, TOS = Temporarily Out-of-Service, CIP = Closure In-Place Indicate type of product: DL = Diesel, LG = Leaded Gasoline, UG = Unleaded Gasoline, FO = Fuel Oil, GH = Gasohol, AF = Aviation Fuel, K = Kerosene, IX = Premix, WO = Waste/Used Motor Oil, FCHZW = Flammable/Combustible Hazardous Waste, OC = Other Chemical (indicate the chemical name(s)): AS number(s): Source of release: T = tank, P = piping, D = dispenser, STP = submersible turbine pump, DP = delivery problem, O = other 4. Cause of release: S = spill, O = overfill, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other Has release been reported to the Department of Natural Resources? Yes No Release not evident at this time J. CLOSURES (Check applicable box at right in response to all statements in section D) Written notification was provided to the local agent 15 days in advance of closure date. All local permits were obtained before beginning closure. Y N NA UST Form ERS-7437 or AST Form ERS-8731 filled by owner with the Dept. of Commerce indicating closure. Y N NA NOTE: TANK INVENTORY FORM ERS-7437 or ERS-8731 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACH CLOSURE or CHANGE-IN-SERVICE CHECKLIST D.1 TEMPORARILY OUT-OF-SERVICE 1. Product removed. Remover Inspector Verified Verified Product lines drained into tank (or other container) and liquid removed, and D. All product removed to bottom of suction line, OR C. All product removed to within 1" of bottom.	, ' <u>'</u>	:	:	1	,	£ 1, 1, 1	□ Y	□N		:
Y					1.74-7.17.12.25.1	in the	ПΥ	ПИ	the participation of the party	4. 15 .
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D.1 TEMPORARILY OUT-OF-SERVICE 1. Product removed. a. Product lines drained into tank (or other container) and liquid removed, and b. All product removed to bottom of suction line, OR c. All product removed to within 1" of bottom.					or ERS-8731	SIGNED BY	THE OWNE	R MUST BE	SUBMITTED WITH E	ACH CLOSURE or
1. Product removed. a. Product lines drained into tank (or other container) and liquid removed, and b. All product removed to bottom of suction line, OR c. All product removed to within 1" of bottom.					A CONTRACTOR OF THE CONTRACTOR					Burnara a assessa and district a first
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b. All product removed to bottom of suction line, OR c. All product removed to within 1" of bottom.	1			topk (or other	r container) or	ad liquid ron	noved and			
c. All product removed to within 1" of bottom.						iu iiquiu ter	novou, allu			
	1									
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.						and vapor	return lines ca	npped.		HY HN H
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR										

i i i i i i i i i i i i i i i i i i i			- "	
4. Dispensers/pumps left in place but lock	ed and power disconnected.			
5. Vent lines left open.		□Y □N		
Inventory form filed indicating temporar	ily out-of-service (TOS) closure.			
D.2. CLOSURE BY REMOVAL OR IN-PL	ACE		grand Albander	H; 11.00
1. General Requirements				
 a. Product from piping drained into tank 			ØY □N □	
 b. Piping disconnected from tank and re 	emoved.		☑Y □N	
 c. All liquid and residue removed from to 	ank using explosion-proof pumps or hand pumps.		☑Y □N	
 d. All pump motors and suction hoses b 			☑Y □N	
	ry connections, submersible pumps and other fixtures		ДY □N	
f. Vent lines left connected until tanks p	urged.	□ Y □ N		
g. Tank openings temporarily plugged s	o vapors exit through vent.	N Y	M N M	
h. Tank atmosphere reduced to 10% of	the lower flammable range (LEL) - see Section E.	N Y	☑Y □N	
2. Specific Closure-by-Removal Requir			77	
a. Tank removed from excavation after blocked to prevent movement.	PURGING/INERTING; placed on level ground and	□X □N	□Y□N	
b. Tank cleaned before being removed	from site.	□Y □N	MY N	
c. Tank labeled in 2" high letters after re	emoval but before being moved from site.	N V	 M Y □N	一一
NOTE: COMPLETE TANK LABELING SHOU	LD INCLUDE WARNING AGAINST REUSE; FORMER NG TREATMENT; DATE.		77	
	rt of tank) installed prior to moving the tank from site.	N Y		
e. Site security is provided while the exc	cavation is open.	DY N		
3. Specific Closure-In-Place Requirem NOTE: CLOSURES IN-PLACE ARE ONLY A LOCAL AGENT.	ents LLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE I	DEPARTMENT OF C	COMMERCE OR	
a. Tank properly cleaned to remove all	sludge and residue.	YN		
 b. Solid inert material (sand, cyclone botank filled. 	iler slag, or pea gravel recommended) introduced and	□Y □N	□Y □N	P
c. Vent line disconnected or removed.	. !	□Y □N	□Y □N	ф
d. Inventory form filed by owner with the	Department of Commerce indicating closure in-place.	TY N	TYN	THE STATE OF
E. REPAIR, UPGRADE OR CHANGE-IN-SERV				T
Written notification was provided to the local		Υ	□ N □ !	NÁ
All local permits were obtained before begin	ning service.	_	□ N □ I	NA
Form ERS-7437 or ERS-8731 filed by ov	vner with the Department of Commerce indicating change	e-in-service. TY	□ N □	NA
F. METHOD OF VAPOR FREEING OF TANK				
☐ Displacement of vapors by eductor or diffu	used air blower.	1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Eductor driven by compressed air, bonder	d and drop tube left in place; vapors discharged minimum	n of 12 feet above	ground.	
	removed. Air pressure not exceeding 5 psig.			
Inert gas using dry ice or liquid carbon dic				
	GASSES PRODUCE AN OXYGEN DEFICIENT ATMO			ОТ
	MAY NOT BE ENTERED IN THIS STATE WITHOUT SI at a point near the bottom of the tank at the end of the tan			
	exceed 5 psig to reduce static electricity. Gas introducing			
	imable range (LEL) or 0% oxygen obtained before remov			
	e or combustible vapor levels prior to and during cleaning		1100	- , , , ,
	r oxygen meter prior to use. Drop tube removed prior to		ere. Tank spac	ce
monitored at bottom, middle and upper po		J		
G. REMOVER/CLEANER INFORMATION				
Commerce attack as making	State Millian Control of the State of the St	15/9/ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9-11-	idenista in 1 17
Remover/Cleaner Name (print) I attest that the procedures and information which I h	Remover/Cleaner Signature Cerl ave provided as the tank closure contractor are correct and com	tification No.	Date Sign	ed
Company expected to perform soil contaminati	on assessment			
H. INSPECTOR INFORMATION				
In Arphylyn Bryngyllogines	war of mild from the many or	ing apparence	11,668 845 yezhoù 65 4 16 19_67 1	717 81
Inspector Name (print)	Inspector Signature	Inspector Cert #	LPO Age	ncy#:
2609	715-479-8328)	9-15-11	2
FDID # For Location Where Inspection Perform	ned Inspector Telephone Number		Date Signed	
《 對於方式 以 對新於言格的方式,所謂的於言語。對於於於於於於言語。	的名字形式排作中的自然的名词形的特色的 网络阿拉克巴克斯斯斯克尼克斯	基础的,特别的。对中的	all in the state of the state o	42) N. P





July 30, 2010

John Hunt COLEMAN ENGINEERING 635 Circle Drive Iron Mountain, MI 49801

WATER IN UST FOR DISPOSAL

RE: Project: EE10201 THOMAS

Pace Project No.: 4034777

Dear John Hunt:

Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kosa Kly

Kang Khang

kang.khang@pacelabs.com Project Manager

Enclosures







CERTIFICATIONS

Project:

EE10201 THOMAS

Pace Project No.:

4034777

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444







SAMPLE SUMMARY

Project:

EE10201 THOMAS

Pace Project No.:

4034777

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4034777001	THOMAS UST	Water	07/15/10 00:00	07/23/10 10:30







SAMPLE ANALYTE COUNT

Project:

EE10201 THOMAS

Pace Project No.:

4034777

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4034777001	THOMAS UST	WI MOD GRO	SES	9	PASI-G







Project:

EE10201 THOMAS

Pace Project No.:

4034777

Sample: THOMAS UST	Lab ID:	Lab ID: 4034777001		Collected: 07/15/10 00:00 F		Received: 07/23/10 10:30		//atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI Mo	OD GRO						
Benzene	4470 u	ıg/L	50.0	19.4	50		07/28/10 17:04	71-43-2	
Ethylbenzene	322 u	ıg/L	50.0	20.7	50		07/28/10 17:04	100-41-4	
Gasoline Range Organics	20800 U	ıg/L	2500	1620	50		07/28/10 17:04		
Methyl-tert-butyl ether	<19.0 u	ıg/L	50.0	19.0	50		07/28/10 17:04	1634-04-4	
Toluene	7120 u	ig/L	50.0	20.8	50		07/28/10 17:04	108-88-3	
1,2,4-Trimethylbenzene	313 u	g/L	50.0	21.5	50		07/28/10 17:04	95-63-6	
1,3,5-Trimethylbenzene	92.5 u	ıg/L	50.0	19.8	50		07/28/10 17:04	108-67-8	
Xylene (Total)	2970 u	g/L	150	62.6	50		07/28/10 17:04	1330-20-7	
a,a,a-Trifluorotoluene (S)	99 %	6	80-120		50		07/28/10 17:04	98-08-8	

Date: 07/30/2010 10:46 AM







QUALITY CONTROL DATA

Project:

EE10201 THOMAS

Pace Project No.:

4034777

QC Batch:

GCV/5363

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

4034777001

METHOD BLANK: 331884

Matrix: Water

Associated Lab Samples:

4034777001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	07/27/10 10:47	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	07/27/10 10:47	
Benzene	ug/L	<0.39	1.0	07/27/10 10:47	
Ethylbenzene	ug/L	<0.41	1.0	07/27/10 10:47	
Gasoline Range Organics	ug/L	<32.4	50.0	07/27/10 10:47	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	07/27/10 10:47	
Toluene	ug/L	<0.42	1.0	07/27/10 10:47	
Xylene (Total)	ug/L	<1.3	3.0	07/27/10 10:47	
a,a,a-Trifluorotoluene (S)	%	99	80-120	07/27/10 10:47	

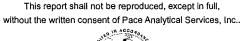
LABORATORY CONTROL SAMI	PLE & LCSD: 331885		33	1886						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.2	18.4	91	92	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	18.3	18.5	91	92	80-120	1	20	
Benzene	ug/L	20	18.9	18.8	94	94	80-120	.5	20	
Ethylbenzene	ug/L	20	18.5	18.7	93	93	80-120	.6	20	
Gasoline Range Organics	ug/L	200	177	177	88	88	80-120	.09	20	
Methyl-tert-butyl ether	ug/L	20	19.4	19.3	97	97	80-120	.04	20	
Toluene	ug/L	20	18.7	18.7	93	94	80-120	.4	20	
Xylene (Total)	ug/L	60	55.1	55.6	92	93	80-120	.8	20	
a,a,a-Trifluorotoluene (S)	%				98	99	80-120			

MATRIX SPIKE & MATRIX SF	PIKE DUPLICAT	E: 33221	0		332211							
Parameter	4(Units	034844009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	814	100	100	914	899	99	85	31-178	2	20	
1,3,5-Trimethylbenzene	ug/L	199	100	100	291	289	92	89	66-145	.9	20	
Benzene	ug/L	712	100	100	824	812	112	100	23-177	1	20	
Ethylbenzene	ug/L	349	100	100	450	443	100	94	63-144	2	20	
Methyl-tert-butyl ether	ug/L	7.2	100	100	93.3	93.3	86	86	80-120	.01	20	
Toluene	ug/L	968	100	100	1090	1070	117	98	53-164	2	20	
Xylene (Total)	ug/L	2740	300	300	3070	3010	111	90	41-166	2	20	
a,a,a-Trifluorotoluene (S)	%						95	95	80-120			

Date: 07/30/2010 10:46 AM

REPORT OF LABORATORY ANALYSIS

Page 6 of 7









QUALIFIERS

Project:

EE10201 THOMAS

Pace Project No.:

4034777

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G

Pace Analytical Services - Green Bay



	(Please Print Clearly)									UPPER	MIDWEST	REGION		Page 1	of	
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EE 10 201A OK 1714

INVOICE / STATEMENT

Coleman Engineering 635 Circle Drive Iron Mountain, MI 49801

28/10/2010

Due Date:

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Date	Volume	Description	Rate/Gal	l. Charges
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15-Sep-2010	1,500 Petro	leum lainted Water - N	on Hazardous 0.08000	\$ 120.00
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SGS ENVIRONMENTAL CONTRACTING LLC

N2570 Daytona Drive Merrill, WI 54452

1-800-261-2803 715-539-2803 715-539-2661 FAX jschlueter@hughes.net

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Date	Invoice #
9/29/2010	23205

COLEMAN ENGINEERING CO 635 CIRCLE DRIVE IRON MOUNTAIN MI 49801

Site Address

Iron County Garage 300 Tucanite St. Montreal WI 54550

P.O. N	0.	Terms	Customer Contact				
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Watershed/Wastewater Waste Management Route To: Remediation/Revelopment Other Facility/Project Name License/Permit/Monitoring Number Boring Number FORMER THOMAS SERVICE STATION 03-26-000788 Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method DIRECT $\frac{1}{m}\frac{1}{m}/\frac{1}{d}\frac{7}{d}/\frac{2}{y}\frac{0}{y}\frac{1}{y}\frac{0}{y}$ PUSH Fim: COLEMAN EHAINEERING COMPANY Surface Elevation WI Unique Well No. Final Static Water Level Borehole Diameter DNR Well ID No. 1475 Feet MSL # Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ Local Grid Location State Plane \Box E Long 90 013 748 <u>5Ε 1/4 of 5ω 1/4 of Section 27, T 46 N, R</u> Feet D S Feet□ W Facility ID County Code Civil Town/City) or Village County <u>Ğ</u> 826034110 IRON MONTREA Soil Properties Sample Depth in Feet (Below ground surface) Length Att. & Recovered (in) Soil/Rock Description Blow Counts RQD/ Comments And Geologic Origin For Number and Type Compressiv Strength Plasticity Index PID/FID USCS Well Diagram Moisture Content Each Major Unit JAND & GRAVEL PEAT 3 ROCK FRAGS BACKETLE W/CHIPS I hereby certify that the information on this form is true and correct to the best of my knowledge.

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

COLEMAN ENGINEERING

State of Wisconsin	
Department of Natural	Resources

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State of Wiscons	in
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State of Wisconsin	
Department of Natural	Resources

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TABORATORY REPORTS



September 22, 2010

John Hunt COLEMAN ENGINEERING 635 Circle Drive Iron Mountain, MI 49801

RE: Project: EE10201 THOMAS SERVICE

Pace Project No.: 4037109

Dear John Hunt:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LVM

Steven Mleczko

steve.mleczko@pacelabs.com Project Manager

Enclosures





Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

CERTIFICATIONS

Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4037109

Green Bay Certification IDs

New York Certification #: 11888

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334

New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4037109

Heated spoortering	Lab ID	Sample ID	Matrix	Date Collected	Date Received
	4037109001	NORTH TANK PIT @ 6'	Solid	09/15/10 00:00	09/17/10 10:50
Addition	4037109002	SOUTH TANK PIT @ 6'	Solid	09/15/10 00:00	09/17/10 10:50
coquetto,	4037109003	TANK PIT	Water	09/15/10 00:00	09/17/10 10:50





SAMPLE ANALYTE COUNT

EE10201 THOMAS SERVICE

Pace Project No.: 4037109

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4037109001	NORTH TANK PIT @ 6'	WI MOD GRO	SES	9	PASI-G
4037109002	SOUTH TANK PIT @ 6'	WI MOD GRO	SES	9	PASI-G
4037109003	TANK PIT	WI MOD GRO	SES	9	PASI-G





Project:

EE10201 THOMAS SERVICE

Lab ID: 4037109001

Pace Project No.:

4037109

Sample: NORTH TANK PIT @ 6'

Collected: 09/15/10 00:00 Received: 09/17/10 10:50 Matrix: Solid

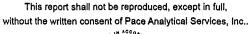
Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO PI	reparation N	lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<100 u	ıg/kg	240	100	4	09/20/10 08:26	09/21/10 14:40	71-43-2	W
Ethylbenzene	<100 u	ıg/kg	240	100	4	09/20/10 08:26	09/21/10 14:40	100-41-4	W
Methyl-tert-butyl ether	<100 u	ıg/kg	240	100	4	09/20/10 08:26	09/21/10 14:40	1634-04-4	W
Toluene	207J u	ıg/kg	240	100	4	09/20/10 08:26	09/21/10 14:40	108-88-3	
1,2,4-Trimethylbenzene	2460 u	ıg/kg	240	100	4	09/20/10 08:26	09/21/10 14:40	95-63-6	
1,3,5-Trimethylbenzene	1950 u	ıg/kg	240	100	4	09/20/10 08:26	09/21/10 14:40	108-67-8	
m&p-Xylene	368J u	ıg/kg	480	200	4	09/20/10 08:26	09/21/10 14:40	179601-23-1	
o-Xylene	526 u	ıg/kg	240	100	4	09/20/10 08:26	09/21/10 14:40	95-47-6	
a,a,a-Trifluorotoluene (S)	139 %	6	80-120		4	09/20/10 08:26	09/21/10 14:40	98-08-8	D3,S7

Date: 09/22/2010 04:21 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 10







Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4037109

Sample: SOUTH TANK PIT @ 6'

Lab ID: 4037109002

Collected: 09/15/10 00:00 Received: 09/17/10 10:50

Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
Benzene	<25.0 u	g/kg	60.0	25.0	1	09/20/10 08:26	09/21/10 18:55	71-43-2	W
Ethylbenzene	<25.0 u	g/kg	60.0	25.0	1	09/20/10 08:26	09/21/10 18:55	100-41-4	W
Methyl-tert-butyl ether	<25.0 u	g/kg	60.0	25.0	1	09/20/10 08:26	09/21/10 18:55	1634-04-4	W
Toluene	<25.0 u	g/kg	60.0	25.0	1	09/20/10 08:26	09/21/10 18:55	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 u	g/kg	60.0	25.0	1	09/20/10 08:26	09/21/10 18:55	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 u	g/kg	60.0	25.0	1	09/20/10 08:26	09/21/10 18:55	108-67-8	W
m&p-Xylene	<50.0 u	g/kg	120	50.0	1	09/20/10 08:26	09/21/10 18:55	179601-23-1	W
o-Xylene	<25.0 u	g/kg	60.0	25.0	1	09/20/10 08:26	09/21/10 18:55	95-47-6	W
a,a,a-Trifluorotoluene (S)	104 %	6	80-120		1	09/20/10 08:26	09/21/10 18:55	98-08-8	

Date: 09/22/2010 04:21 PM

REPORT OF LABORATORY ANALYSIS

Page 6 of 10

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Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4037109

Sample: TANK PIT	Lab ID: 4037109003		Collected: 09/15/10 00:00			Received: 09	/17/10 10:50 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	l Method: WI Mo	OD GRO						
Benzene	1.5 ເ	ug/L	1.0	0.39	1		09/20/10 15:16	71-43-2	
Ethylbenzene	8.4 t	ug/L	1.0	0.41	1		09/20/10 15:16	100-41-4	
Methyl-tert-butyl ether	<0.38 (ug/L	1.0	0.38	1		09/20/10 15:16	1634-04-4	
Toluene	7.5 t	ug/L	1.0	0.42	1		09/20/10 15:16	108-88-3	
1,2,4-Trimethylbenzene	4.0 t	ug/L	1.0	0.43	1		09/20/10 15:16	95-63-6	
1,3,5-Trimethylbenzene	1.1 (ug/L	1.0	0.40	1		09/20/10 15:16	108-67-8	
m&p-Xylene	30.7 (ug/L	2.0	0.87	1		09/20/10 15:16	179601-23-1	
o-Xylene	24.0	ug/L	1.0	0.38	1		09/20/10 15:16	95-47-6	
a,a,a-Trifluorotoluene (S)	104 9	-	80-120		1		09/20/10 15:16	98-08-8	





QUALITY CONTROL DATA

Project:

EE10201 THOMAS SERVICE

TPH GRO/PVOC WI ext.

Pace Project No.:

QC Batch Method:

4037109

QC Batch:

GCV/5610

Analysis Method:

WI MOD GRO

Analysis Description:

WIGRO Solid GCV

Associated Lab Samples:

4037109001, 4037109002

METHOD BLANK: 356900

Matrix: Solid

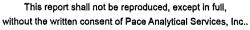
	Associated Lab Samples:	4037109001, 4037109002				
Unabergassi.	Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
oyali/7h	1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	09/21/10 08:13	
	1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	09/21/10 08:13	
4/4/display	Benzene	ug/kg	<25.0	60.0	09/21/10 08:13	
- Participation	Ethylbenzene	ug/kg	<25.0	60.0	09/21/10 08:13	
	m&p-Xylene	ug/kg	<50.0	120	09/21/10 08:13	
- 6	Methyl-tert-butyl ether	ug/kg	<25.0	60.0	09/21/10 08:13	
SECTION	o-Xylene	ug/kg	<25.0	60.0	09/21/10 08:13	
POSTON.	Toluene	ug/kg	<25.0	60.0	09/21/10 08:13	
	a,a,a-Trifluorotoluene (S)	%	104	80-120	09/21/10 08:13	

LABORATORY CONTROL SAM	PLE & LCSD: 356901		35	6902						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1110	1140	111	114	80-120	3	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1110	1150	111	115	80-120	4	20	
Benzene	ug/kg	1000	1020	1040	102	104	80-120	2	20	
Ethylbenzene	ug/kg	1000	1080	1120	108	112	80-120	3	20	
m&p-Xylene	ug/kg	2000	2180	2260	109	113	80-120	4	20	
Methyl-tert-butyl ether	ug/kg	1000	981	990	98	99	80-120	.9	20	
o-Xylene	ug/kg	1000	1080	1120	108	112	80-120	4	20	
Toluene	ug/kg	1000	1050	1080	105	108	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				103	103	80-120			

Date: 09/22/2010 04:21 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 10







QUALITY CONTROL DATA

Project:

EE10201 THOMAS SERVICE

Pace Project No.: 4037109

QC Batch:

GCV/5612

QC Batch Method:

WI MOD GRO

Analysis Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

4037109003

METHOD BLANK: 356975

Matrix: Water

Associated Lab Samples: 4037109003

ed Company contracts to	Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1	,2,4-Trimethylbenzene	ug/L	<0.43	1.0	09/20/10 10:08	
. 1	,3,5-Trimethylbenzene	ug/L	<0.40	1.0	09/20/10 10:08	
E	senzene	ug/L	<0.39	1.0	09/20/10 10:08	
e E	ithylbenzene	ug/L	<0.41	1.0	09/20/10 10:08	
n	n&p-Xylene	ug/L	<0.87	2.0	09/20/10 10:08	
Ŷ٨	fethyl-tert-butyl ether	ug/L	<0.38	1.0	09/20/10 10:08	
0	-Xylene	ug/L	<0.38	1.0	09/20/10 10:08	
1	oluene	ug/L	<0.42	1.0	09/20/10 10:08	
а	,a,a-Trifluorotoluene (S)	%	103	80-120	09/20/10 10:08	

LABORATORY CONTROL SAM	PLE & LCSD: 356976	-	35	6977						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.4	20.2	102	101	80-120	.7	20	
1,3,5-Trimethylbenzene	ug/L	20	20.6	20.3	103	101	80-120	2	20	
Benzene	ug/L	20	20.7	20.6	104	103	80-120	.6	20	
Ethylbenzene	ug/L	20	20.8	20.5	104	103	80-120	1	20	
m&p-Xylene	ug/L	40	41.1	40.6	103	101	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.4	21.1	102	105	80-120	3	20	
o-Xylene	ug/L	20	20.5	20.3	103	102	80-120	1	20	
Toluene	ug/L	20	20.7	20.5	104	103	80-120	.8	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SF			MS	MSD	356979							
Parameter	40 Units	036966009 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	2090	1000	1000	3200	3150	111	106	31-178		20	
1,3,5-Trimethylbenzene	ug/L	597	1000	1000	1730	1710	114	111	66-145	2	20	
Benzene	ug/L	703	1000	1000	1800	1780	109	108	23-177	.7	20	
Ethylbenzene	ug/L	2350	1000	1000	3480	3430	113	108	63-144	1	20	
m&p-Xylene	ug/L	7320	2000	2000	9530	9420	110	105	39-172	1	20	
Methyl-tert-butyl ether	ug/L	<19.0	1000	1000	1040	1060	104	106	80-120	2	20	
o-Xylene	ug/L	2100	1000	1000	3190	3160	109	106	60-150	1	20	
Toluene	ug/L	7020	1000	1000	8090	7950	107	93	53-164	2	20	
a,a,a-Trifluorotoluene (S)	%						103	103	80-120			

Date: 09/22/2010 04:21 PM

REPORT OF LABORATORY ANALYSIS

Page 9 of 10





QUALIFIERS

Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4037109

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

W Non-detect results are reported on a wet weight basis.



Intact / Not Intact

special pricing and release of liability



November 24, 2010

John Hunt COLEMAN ENGINEERING 635 Circle Drive Iron Mountain, MI 49801

RE: Project: EE10201 THOMAS SERVICE

Pace Project No.: 4039857

Dear John Hunt:

Enclosed are the analytical results for sample(s) received by the laboratory on November 19, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

LVM

Steven Mleczko

steve.mleczko@pacelabs.com

Project Manager

Enclosures







CERTIFICATIONS

Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888 North Carolina Certification #: 503 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444





SAMPLE SUMMARY

Project:

EE10201 THOMAS SERVICE

Pace Project No.: 4039857

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4039857001	B-1	Solid	11/17/10 08:15	11/19/10 10:40
4039857002	B-2	Solid	11/17/10 08:45	11/19/10 10:40
4039857003	B-3	Solid	11/17/10 09:00	11/19/10 10:40
4039857004	B-4	Solid	11/17/10 09:15	11/19/10 10:40
4039857005	B-5	Solid	11/17/10 09:30	11/19/10 10:40
4039857006	B-6	Solid	11/17/10 09:45	11/19/10 10:40
4039857007	B-7	Solid	11/17/10 10:00	11/19/10 10:40
4039857008	B-8	Solid	11/17/10 10:30	11/19/10 10:40
4039857009	B-9	Solid	11/17/10 11:00	11/19/10 10:40
4039857010	B-1 WELL	Water	11/17/10 12:45	11/19/10 10:40
4039857011	B-6 WELL	Water	11/17/10 12:30	11/19/10 10:40
4039857012	B-7 WELL	Water	11/17/10 12:15	11/19/10 10:40
4039857013	MEOH BLANK	Solid	11/17/10 00:00	11/19/10 10:40
4039857014	ТВ	Water	11/17/10 00:00	11/19/10 10:40





SAMPLE ANALYTE COUNT

Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4039857001	B-1	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857002	B-2	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857003	B-3	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857004	B-4	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857005	B-5	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857006	B-6	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857007	B-7	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857008	B-8	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857009	B-9	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039857010	B-1 WELL	WI MOD GRO	SES	10	PASI-G
4039857011	B-6 WELL	WI MOD GRO	SES	10	PASI-G
4039857012	B-7 WELL	WI MOD GRO	SES	10	PASI-G
4039857013	MEOH BLANK	WI MOD GRO	PMS	10	PASI-G
4039857014	ТВ	WI MOD GRO	SES	10	PASI-G





Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Sample: B-1

Lab ID: 4039857001

Collected: 11/17/10 08:15 Received: 11/19/10 10:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<1250 u	g/kg	3000	1250	50	11/22/10 09:24	11/22/10 17:00	71-43-2	W
Ethylbenzene	15000 u	g/kg	3230	1350	50	11/22/10 09:24	11/22/10 17:00	100-41-4	
Methyl-tert-butyl ether	<1250 u	g/kg	3000	1250	50	11/22/10 09:24	11/22/10 17:00	1634-04-4	W
Naphthalene	10000 u	g/kg	3230	1350	50	11/22/10 09:24	11/22/10 17:00	91-20-3	
Toluene	<1250 u	g/kg	3000	1250	50	11/22/10 09:24	11/22/10 17:00	108-88-3	W
1,2,4-Trimethylbenzene	111000 u	g/kg	3230	1350	50	11/22/10 09:24	11/22/10 17:00	95-63-6	
1,3,5-Trimethylbenzene	50700 u	g/kg	3230	1350	50	11/22/10 09:24	11/22/10 17:00	108-67-8	В
m&p-Xylene	70000 ug	g/kg	6460	2690	50	11/22/10 09:24	11/22/10 17:00	179601-23-1	
o-Xylene	21300 u	g/kg	3230	1350	50	11/22/10 09:24	11/22/10 17:00	95-47-6	
a,a,a-Trifluorotoluene (S)	130 %	0	80-120		50	11/22/10 09:24	11/22/10 17:00	98-08-8	D3,S7
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	7.2 %	ó	0.10	0.10	1		11/23/10 07:36		



Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Sample: B-2

Lab ID: 4039857002

Collected: 11/17/10 08:45

Received: 11/19/10 10:40

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units LOC	LOD LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Me	thod: WI MOD GR	O Preparation	Method	I: TPH GRO/PVO	C WI ext.		
Benzene	<1250 ug/k	g 30	000 1250	50	11/22/10 09:24	11/22/10 17:26	71-43-2	W
Ethylbenzene	30800 ug/k	g 33	90 1410	50	11/22/10 09:24	11/22/10 17:26	100-41-4	
Methyl-tert-butyl ether	<1250 ug/k	g 30	000 1250	50	11/22/10 09:24	11/22/10 17:26	1634-04-4	W
Naphthalene	17300 ug/k	g 33	390 1410	50	11/22/10 09:24	11/22/10 17:26	91-20-3	
Toluene	5560 ug/k	g 33	90 1410	50	11/22/10 09:24	11/22/10 17:26	108-88-3	
1,2,4-Trimethylbenzene	211000 ug/k	g 33	90 1410	50	11/22/10 09:24	11/22/10 17:26	95-63-6	
1,3,5-Trimethylbenzene	85300 ug/k	g 33	390 1410	50	11/22/10 09:24	11/22/10 17:26	108-67-8	В
m&p-Xylene	147000 ug/k	g 67	780 2830	50	11/22/10 09:24	11/22/10 17:26	179601-23-1	
o-Xylene	53200 ug/k	g 33	90 1410	50	11/22/10 09:24	11/22/10 17:26	95-47-6	
a,a,a-Trifluorotoluene (S)	163 %	80-1	20	50	11/22/10 09:24	11/22/10 17:26	98-08-8	S7
Percent Moisture	Analytical Me	thod: ASTM D297	4-87					
Percent Moisture	11.5 %	0	.10 0.10	1		11/23/10 07:37		





Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Sample: B-3

Lab ID: 4039857003

Collected: 11/17/10 09:00

Received: 11/19/10 10:40

Matrix: Solid

Results reported on a "dry-weight" basis

Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
<25.0 ug	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 12:45	71-43-2	W
<25.0 ug	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 12:45	100-41-4	W
<25.0 ug	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 12:45	1634-04-4	W
<25.0 ug	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 12:45	91-20-3	W
<25.0 ug	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 12:45	108-88-3	W
<25.0 ug	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 12:45	95-63-6	W
<25.0 ug	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 12:45	108-67-8	W
<50.0 ug	g/kg	120	50.0	1	11/22/10 09:24	11/22/10 12:45	179601-23-1	W
<25.0 ug	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 12:45	95-47-6	W
149 %		80-120		1	11/22/10 09:24	11/22/10 12:45	98-08-8	S7
Analytical I	Method: AS	ΓM D2974-87						
17.4 %		0.10	0.10	1		11/23/10 07:37		
	Analytical <25.0 uç <25.0 uç <25.0 uç <25.0 uç <25.0 uç <25.0 uç <50.0 uç <149 % Analytical	Analytical Method: WI <25.0 ug/kg <25.0 ug/kg <25.0 ug/kg <25.0 ug/kg <25.0 ug/kg <25.0 ug/kg <25.0 ug/kg <25.0 ug/kg <25.0 ug/kg <25.0 ug/kg <10.0 ug/kg <10.0 ug/kg	Analytical Method: WI MOD GRO Pr <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <25.0 ug/kg 60.0 <35.0 ug/kg 60.0 <45.0 ug/kg 60.0 Analytical Method: ASTM D2974-87	Analytical Method: WI MOD GRO Preparation Method: WI MOD GRO Preparation Method: WI MOD GRO Preparation Method: Assertion of the preparation of th	Analytical Method: WI MOD GRO Preparation Method <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <25.0 ug/kg 60.0 25.0 1 <30.0 ug/kg 60.0 25.0 1 Analytical Method: ASTM D2974-87	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <50.0 ug/kg 60.0 25.0 1 11/22/10 09:24 <50.0 ug/kg 60.0 25.0 1 11/22/10 09:24 Analytical Method: ASTM D2974-87	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <50.0 ug/kg 120 50.0 1 11/22/10 09:24 11/22/10 12:45 <25.0 ug/kg 60.0 25.0 1 11/22/10 09:24 11/22/10 12:45 <45.0 ug/kg 120 50.0 1 11/22/10 09:24 11/22/10 12:45 Analytical Method: ASTM D2974-87	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. 425.0 ug/kg







Project:

EE10201 THOMAS SERVICE

4039857 Pace Project No.:

Sample: B-4

Lab ID: 4039857004

Collected: 11/17/10 09:15 Received: 11/19/10 10:40

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical M	fethod: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	CWI ext.		
Benzene	<25.3 ug/	/kg	60.6	25.3	1	11/22/10 09:24	11/22/10 13:10	71-43-2	W
Ethylbenzene	<25.3 ug/	/kg	60.6	25.3	1	11/22/10 09:24	11/22/10 13:10	100-41-4	W
Methyl-tert-butyl ether	<25.3 ug/	/kg	60.6	25.3	1	11/22/10 09:24	11/22/10 13:10	1634-04-4	W
Naphthalene	<25.3 ug/	/kg	60.6	25.3	1	11/22/10 09:24	11/22/10 13:10	91-20-3	W
Toluene	<25.3 ug/	/kg	60.6	25.3	1	11/22/10 09:24	11/22/10 13:10	108-88-3	W
1,2,4-Trimethylbenzene	<25.3 ug/	/kg	60.6	25.3	1	11/22/10 09:24	11/22/10 13:10	95-63-6	W
1,3,5-Trimethylbenzene	<25.3 ug/	/kg	60.6	25.3	1	11/22/10 09:24	11/22/10 13:10	108-67-8	W
m&p-Xylene	<50.5 ug/	/kg	121	50.5	1	11/22/10 09:24	11/22/10 13:10	179601-23-1	W
o-Xylene	<25.3 ug/	/kg	60.6	25.3	1	11/22/10 09:24	11/22/10 13:10	95-47-6	W
a,a,a-Trifluorotoluene (S)	142 %		80-120		1	11/22/10 09:24	11/22/10 13:10	98-08-8	S7
Percent Moisture	Analytical M	1ethod: AST	M D2974-87						
Percent Moisture	26.6 %		0.10	0.10	1		11/23/10 07:37		





Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Sample: B-5

Lab ID: 4039857005

Collected: 11/17/10 09:30 Received: 11/19/10 10:40

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical N	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0 ug	/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 13:36	71-43-2	W
Ethylbenzene	<25.0 ug	/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 13:36	100-41-4	W
Methyl-tert-butyl ether	<25.0 ug	/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 13:36	1634-04-4	W
Naphthalene	<25.0 ug	/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 13:36	91-20-3	W
Toluene	<25.0 ug	/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 13:36	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ug	/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 13:36	95-63-6	W
1,3,5-Trimethylbenzene	75.0 ug	/kg	68.7	28.6	1	11/22/10 09:24	11/22/10 13:36	108-67-8	В
m&p-Xylene	<50.0 ug	/kg	120	50.0	1	11/22/10 09:24	11/22/10 13:36	179601-23-1	W
o-Xylene	<25.0 ug	/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 13:36	95-47-6	W
a,a,a-Trifluorotoluene (S)	139 %		80-120		1	11/22/10 09:24	11/22/10 13:36	98-08-8	S7
Percent Moisture	Analytical N	Method: AS	TM D2974-87						
Percent Moisture	12.7 %		0.10	0.10	1		11/23/10 07:37		





Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Sample: B-6

Lab ID: 4039857006

Collected: 11/17/10 09:45 Received: 11/19/10 10:40 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Me	thod: WI MOD GRO	Preparation	Method	: TPH GRO/PVO	C WI ext.		
Benzene	<25.5 ug/k	g 61.	2 25.5	1	11/22/10 09:24	11/22/10 12:19	71-43-2	W
Ethylbenzene	<25.5 ug/k	g 61.	2 25.5	1	11/22/10 09:24	11/22/10 12:19	100-41-4	W
Methyl-tert-butyl ether	<25.5 ug/k	g 61.	2 25.5	1	11/22/10 09:24	11/22/10 12:19	1634-04-4	W
Naphthalene	<25.5 ug/k	g 61.	2 25.5	1	11/22/10 09:24	11/22/10 12:19	91-20-3	W
Toluene	<25.5 ug/k	g 61.	2 25.5	1	11/22/10 09:24	11/22/10 12:19	108-88-3	W
1,2,4-Trimethylbenzene	<25.5 ug/k	g 61.	2 25.5	1	11/22/10 09:24	11/22/10 12:19	95-63-6	W
1,3,5-Trimethylbenzene	<25.5 ug/k	g 61.	2 25.5	1	11/22/10 09:24	11/22/10 12:19	108-67-8	W
m&p-Xylene	<51.0 ug/k	g 12	2 51.0	1	11/22/10 09:24	11/22/10 12:19	179601-23-1	W
o-Xylene	<25.5 ug/k	g 61.	2 25.5	1	11/22/10 09:24	11/22/10 12:19	95-47-6	W
a,a,a-Trifluorotoluene (S)	107 %	80-12	0	1	11/22/10 09:24	11/22/10 12:19	98-08-8	
Percent Moisture	Analytical Me	thod: ASTM D2974-	87					
Percent Moisture	14.7 %	0.1	0.10	1		11/23/10 07:37		





Project:

EE10201 THOMAS SERVICE

Pace Project No.: 4039857

Sample: B-7

Lab ID: 4039857007

Collected: 11/17/10 10:00

Received: 11/19/10 10:40

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical I	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<26.3 ug	g/kg	63.2	26.3	1	11/22/10 09:24	11/22/10 11:54	71-43-2	W
Ethylbenzene	<26.3 ug	g/kg	63.2	26.3	1	11/22/10 09:24	11/22/10 11:54	100-41-4	W
Methyl-tert-butyl ether	<26.3 ug	g/kg	63.2	26.3	1	11/22/10 09:24	11/22/10 11:54	1634-04-4	W
Naphthalene	<26.3 ug	g/kg	63.2	26.3	1	11/22/10 09:24	11/22/10 11:54	91-20-3	W
Toluene	<26.3 ug	g/kg	63.2	26.3	1	11/22/10 09:24	11/22/10 11:54	108-88-3	W
1,2,4-Trimethylbenzene	<26.3 ug	g/kg	63.2	26.3	1	11/22/10 09:24	11/22/10 11:54	95-63-6	W
1,3,5-Trimethylbenzene	<26.3 ug	g/kg	63.2	26.3	1	11/22/10 09:24	11/22/10 11:54	108-67-8	W
m&p-Xylene	<52.6 ug	g/kg	126	52.6	1	11/22/10 09:24	11/22/10 11:54	179601-23-1	W
o-Xylene	29.9J ug	g/kg	69.0	28.7	1	11/22/10 09:24	11/22/10 11:54	95-47-6	
a,a,a-Trifluorotoluene (S)	105 %		80-120		1	11/22/10 09:24	11/22/10 11:54	98-08-8	
Percent Moisture	Analytical I	Method: AST	TM D2974-87						
Percent Moisture	8.4 %		0.10	, 0.10	1		11/23/10 07:37		





Project:

EE10201 THOMAS SERVICE

Pace Project No.: 4039857

Sample: B-8

Lab ID: 4039857008

Collected: 11/17/10 10:30 Received: 11/19/10 10:40

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical M	lethod: WI I	MOD GRO Pr	eparation N	∕lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<500 ug/	kg	1200	500	20	11/22/10 09:24	11/22/10 17:51	71-43-2	W
Ethylbenzene	8830 ug/	kg	1340	556	20	11/22/10 09:24	11/22/10 17:51	100-41-4	
Methyl-tert-butyl ether	<500 ug/	kg	1200	500	20	11/22/10 09:24	11/22/10 17:51	1634-04-4	W
Naphthalene	7450 ug/	kg	1340	556	20	11/22/10 09:24	11/22/10 17:51	91-20-3	
Toluene	721J ug/	kg	1340	556	20	11/22/10 09:24	11/22/10 17:51	108-88-3	
1,2,4-Trimethylbenzene	94800 ug/	kg	1340	556	20	11/22/10 09:24	11/22/10 17:51	95-63-6	
1,3,5-Trimethylbenzene	42200 ug/	kg	1340	556	20	11/22/10 09:24	11/22/10 17:51	108-67-8	В
m&p-Xylene	42100 ug/	kg	2670	1110	20	11/22/10 09:24	11/22/10 17:51	179601-23-1	
o-Xylene	15200 ug/	kg	1340	556	20	11/22/10 09:24	11/22/10 17:51	95-47-6	
a,a,a-Trifluorotoluene (S)	168 %		80-120		20	11/22/10 09:24	11/22/10 17:51	98-08-8	S7
Percent Moisture	Analytical M	lethod: AST	M D2974-87						
Percent Moisture	10.1 %		0.10	0.10	1		11/23/10 07:37		





Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Sample: B-9

Lab ID: 4039857009

Collected: 11/17/10 11:00

Received: 11/19/10 10:40

Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO PI	reparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0 u	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 14:02	71-43-2	W
Ethylbenzene	<25.0 u	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 14:02	100-41-4	W
Methyl-tert-butyl ether	<25.0 u	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 14:02	1634-04-4	W
Naphthalene	<25.0 u	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 14:02	91-20-3	W
Toluene	<25.0 u	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 14:02	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 u	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 14:02	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 u	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 14:02	108-67-8	W
m&p-Xylene	<50.0 u	g/kg	120	50.0	1	11/22/10 09:24	11/22/10 14:02	179601-23-1	W
o-Xylene	<25.0 u	g/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 14:02	95-47-6	W
a,a,a-Trifluorotoluene (S)	112 %	6	80-120		1	11/22/10 09:24	11/22/10 14:02	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	10.4 %	6	0.10	0.10	1		11/23/10 07:56		







Project:

EE10201 THOMAS SERVICE

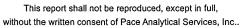
Pace Project No.: 4039857

Sample: B-1 WELL	Lab ID:	4039857010	Collecte	d: 11/17/10	12:45	Received: 11	/19/10 10:40 M	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	I Method: WI M	OD GRO						
Benzene	31.9	ıg/L	20.0	7.8	20		11/23/10 19:11	71-43-2	
Ethylbenzene	444 (ıg/L	20.0	8.3	20		11/23/10 19:11	100-41-4	
Methyl-tert-butyl ether	11.9J (ıg/L	20.0	7.6	20		11/23/10 19:11	1634-04-4	
Naphthalene	132 t	ıg/L	20.0	8.1	20		11/23/10 19:11	91-20-3	
Toluene	35.5	ıg/L	20.0	8.3	20		11/23/10 19:11	108-88-3	
1,2,4-Trimethylbenzene	1400 t	ıg/L	20.0	8.6	20		11/23/10 19:11	95-63-6	
1,3,5-Trimethylbenzene	400 t	ıg/L	20.0	7.9	20		11/23/10 19:11	108-67-8	
m&p-Xylene	1850 u	ıg/L	40.0	17.4	20		11/23/10 19:11	179601-23-1	
o-Xylene	671 (ıg/L	20.0	7.6	20		11/23/10 19:11	95-47-6	
a,a,a-Trifluorotoluene (S)	122 9	%	80-120		20		11/23/10 19:11	98-08-8	S7

Date: 11/24/2010 12:14 PM

REPORT OF LABORATORY ANALYSIS

Page 14 of 23







Project:

EE10201 THOMAS SERVICE

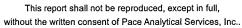
Pace Project No.: 4039857

Sample: B-6 WELL	Lab ID:	4039857011	Collecte	d: 11/17/10	12:30	Received: 11			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI Method: WI Method	OD GRO						
Benzene	<7.8 u	ıg/L	20.0	7.8	20		11/23/10 19:37	71-43-2	
Ethylbenzene	27.4 u	ıg/L	20.0	8.3	20		11/23/10 19:37	100-41-4	
Methyl-tert-butyl ether	55.1 u	ıg/L	20.0	7.6	20		11/23/10 19:37	1634-04-4	
Naphthalene	30.1 u	ig/L	20.0	8.1	20		11/23/10 19:37	91-20-3	
Toluene	17.6J u	ıg/L	20.0	8.3	20		11/23/10 19:37	108-88-3	
1,2,4-Trimethylbenzene	14.7J u	ıg/L	20.0	8.6	20		11/23/10 19:37	95-63-6	
1,3,5-Trimethylbenzene	56. 5 u	ıg/L	20.0	7.9	20		11/23/10 19:37	108-67-8	
m&p-Xylene	33.5J u	ıg/L	40.0	17.4	20		11/23/10 19:37	179601-23-1	
o-Xylene	10.5J ւ	ıg/L	20.0	7.6	20		11/23/10 19:37	95-47-6	
a,a,a-Trifluorotoluene (S)	154 9	6	80-120		20		11/23/10 19:37	98-08-8	D3,S7

Date: 11/24/2010 12:14 PM

REPORT OF LABORATORY ANALYSIS

Page 15 of 23







Project:

EE10201 THOMAS SERVICE

Pace Project No.:

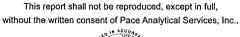
4039857

Sample: B-7 WELL	Lab ID:	4039857012	Collecte	d: 11/17/10	12:15	Received: 11	/19/10 10:40 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI M	OD GRO						
Benzene	. 4.6 u	ıg/L	1.0	0.39	1		11/23/10 17:04	71-43-2	
Ethylbenzene	<0.41 ∪	ıg/L	1.0	0.41	1		11/23/10 17:04	100-41-4	
Methyl-tert-butyl ether	<0.38 t	ıg/L	1.0	0.38	1		11/23/10 17:04	1634-04-4	
Naphthalene	⊸ <0.40 ເ	ıg/L	1.0	0.40	1		11/23/10 17:04	91-20-3	
Toluene	<0.42 t	ıg/L	1.0	0.42	1		11/23/10 17:04	108-88-3	
1,2,4-Trimethylbenzene	<0.43 t	ıg/L	1.0	0:43	1		11/23/10 17:04	95-63-6	
1,3,5-Trimethylbenzene	<0.40 u	ıg/L	1.0	0.40	1		11/23/10 17:04	108-67-8	
m&p-Xylene	<0.87 t	ıg/L	2.0	0.87	1		11/23/10 17:04	179601-23-1	
o-Xylene	1.0 u	ıg/L	1.0	0.38	1		11/23/10 17:04	95-47-6	
a.a.a-Trifluorotoluene (S)	104 9	%	80-120		1		11/23/10 17:04	98-08-8	

Date: 11/24/2010 12:14 PM

REPORT OF LABORATORY ANALYSIS

Page 16 of 23









Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

Sample: MEOH BLANK

Lab ID: 4039857013 Collected: 11/17/10 00:00 Received: 11/19/10 10:40 Matrix: Solid

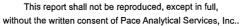
Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO P	reparation N	/lethod	I: TPH GRO/PVO	CWI ext.		
Benzene	<25.0 u	ıg/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 15:18	71-43-2	W
Ethylbenzene	<25.0 u	ıg/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 15:18	100-41-4	W
Methyl-tert-butyl ether	<25.0 u	ıg/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 15:18	1634-04-4	W
Naphthalene	<25.0 u	ıg/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 15:18	91-20-3	W
Toluene	<25.0 t	ıg/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 15:18	108-88-3	W
1,2,4-Trimethylbenzene	<25.0 ∪	ıg/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 15:18	95-63-6	W
1,3,5-Trimethylbenzene	<25.0 t	ıg/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 15:18	108-67-8	W
m&p-Xylene	<50.0 ເ	ıg/kg	120	50.0	1	11/22/10 09:24	11/22/10 15:18	179601-23-1	W
o-Xylene	<25.0 u	ıg/kg	60.0	25.0	1	11/22/10 09:24	11/22/10 15:18	95-47-6	W
a,a,a-Trifluorotoluene (S)	104 %	6	80-120		1	11/22/10 09:24	11/22/10 15:18	98-08-8	

Date: 11/24/2010 12:14 PM

REPORT OF LABORATORY ANALYSIS

Page 17 of 23









Project:

EE10201 THOMAS SERVICE

Pace Project No.: 4039857

Sample: TB	Lab ID:	Collecte	d: 11/17/10	00:00	Received: 11	/19/10 10:40 Ma	Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	I Method: WI Mo	OD GRO						
Benzene	<0.39 t	ıg/L	1.0	0.39	1		11/23/10 17:29	71-43-2	
Ethylbenzene	<0.41 t	ıg/L	1.0	0.41	1		11/23/10 17:29	100-41-4	
Methyl-tert-butyl ether	<0.38 ເ	ıg/L	1.0	0.38	1		11/23/10 17:29	1634-04-4	
Naphthalene	<0.40 t	ıg/L	1.0	0.40	1		11/23/10 17:29	91-20-3	
Toluene	< 0.42 ≀	ıg/L	1.0	0.42	1		11/23/10 17:29	108-88-3	
1,2,4-Trimethylbenzene	<0.43 ≀	ıg/L	1.0	0.43	1		11/23/10 17:29	95-63-6	
1,3,5-Trimethylbenzene	<0.40 t	ıg/L	1.0	0.40	1		11/23/10 17:29	108-67-8	
m&p-Xylene	<0.87 t	ıg/L	2.0	0.87	1		11/23/10 17:29	179601-23-1	
o-Xylene	<0.38 ≀	ıg/L	1.0	0.38	1		11/23/10 17:29	95-47-6	
a,a,a-Trifluorotoluene (S)	104 9	%	80-120		1		11/23/10 17:29	98-08-8	





Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

QC Batch:

GCV/5940

Analysis Method:

WI MOD GRO

QC Batch Method:

TPH GRO/PVOC WI ext.

Analysis Description:

11100000110

Associated Lab Samples:

4039857001, 4039857002, 4039857003, 4039857004, 4039857005, 4039857006, 4039857007, 4039857008,

WIGRO Solid GCV

4039857009, 4039857013

METHOD BLANK: 387715

Matrix: Solid

Associated Lab Samples:

4039857001, 4039857002, 4039857003, 4039857004, 4039857005, 4039857006, 4039857007, 4039857008,

4039857009, 4039857013

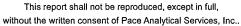
Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	11/22/10 10:12	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	11/22/10 10:12	
Benzene	ug/kg	<25.0	60.0	11/22/10 10:12	
Ethylbenzene	ug/kg	<25.0	60.0	11/22/10 10:12	
m&p-Xylene	ug/kg	<50.0	120	11/22/10 10:12	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	11/22/10 10:12	
Naphthalene	ug/kg	<25.0	60.0	11/22/10 10:12	
o-Xylene	ug/kg	<25.0	60.0	11/22/10 10:12	
Toluene	ug/kg	<25.0	60.0	11/22/10 10:12	
a,a,a-Trifluorotoluene (S)	%	105	80-120	11/22/10 10:12	

LABORATORY CONTROL SAM	PLE & LCSD: 387716		38	37717						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	945	935	94	94	80-120	1	20	
1,3,5-Trimethylbenzene	ug/kg	1000	936	927	94	93	80-120	1	20	
Benzene	ug/kg	1000	917	904	92	90	80-120	1	20	
Ethylbenzene	ug/kg	1000	936	924	94	92	80-120	1	20	
m&p-Xylene	ug/kg	2000	1880	1860	94	93	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	945	938	95	94	80-120	.8	20	
Naphthalene	ug/kg	1000	1000	1010	100	101	80-120	.2	20	
o-Xylene	ug/kg	1000	935	925	93	92	80-120	1	20	
Toluene	ug/kg	1000	929	917	93	92	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				104	106	80-120			

Date: 11/24/2010 12:14 PM

REPORT OF LABORATORY ANALYSIS

Page 19 of 23









Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

QC Batch:

GCV/5945

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

4039857010, 4039857011, 4039857012, 4039857014

METHOD BLANK: 387949

Matrix: Water

Associated Lab Samples:

4039857010, 4039857011, 4039857012, 4039857014

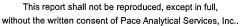
	11.9	Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	< 0.43	1.0	11/23/10 13:40	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	11/23/10 13:40	
Benzene	ug/L	< 0.39	1.0	11/23/10 13:40	
Ethylbenzene	ug/L	<0.41	1.0	11/23/10 13:40	
m&p-Xylene	ug/L	<0.87	2.0	11/23/10 13:40	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	11/23/10 13:40	
Naphthalene	ug/L	<0.40	1.0	11/23/10 13:40	
o-Xylene	ug/L	<0.38	1.0	11/23/10 13:40	
Toluene	ug/L	<0.42	1.0	11/23/10 13:40	
a,a,a-Trifluorotoluene (S)	%	103	80-120	11/23/10 13:40	

LABORATORY CONTROL SAM	PLE & LCSD: 387950		38	37951						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.5	21.3	103	106	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	20.8	21.5	104	107	80-120	3	20	
Benzene	ug/L	20	21.6	21.3	108	106	80-120	2	20	
Ethylbenzene	ug/L	20	21.4	21.6	107	108	80-120	.8	20	
m&p-Xylene	ug/L	40	42.4	43.0	106	108	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	21.1	21.0	106	105	80-120	.6	20	
Naphthalene	ug/L	20	18.8	19.5	94	97	80-120	4	20	
o-Xylene	ug/L	20	21.3	21.2	106	106	80-120	.3	20	
Toluene	ug/L	20	21.5	21.4	108	107	80-120	.8	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

Date: 11/24/2010 12:14 PM

REPORT OF LABORATORY ANALYSIS

Page 20 of 23









Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

QC Batch:

PMST/4920

Analysis Method:

ASTM D2974-87

RPD

QC Batch Method:

ASTM D2974-87

Analysis Description:

Dry Weight/Percent Moisture

Associated Lab Samples:

4039857001, 4039857002, 4039857003, 4039857004, 4039857005, 4039857006, 4039857007, 4039857008

SAMPLE DUPLICATE: 387762

Parameter

4039857001 Result

Dup Result Max

RPD

Qualifiers

Percent Moisture

%

Units

7.2

7.2

.08

10

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REPORT OF LABORATORY ANALYSIS

Page 21 of 23

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Project:

EE10201 THOMAS SERVICE

Pace Project No.:

QC Batch Method:

4039857

QC Batch:

PMST/4921

Analysis Method: Analysis Description: ASTM D2974-87

RPD

ASTM D2974-87 4039857009 Dry Weight/Percent Moisture

Associated Lab Samples: SAMPLE DUPLICATE: 387780

4039857009 Result

Dup Result

Max RPD

Qualifiers

Parameter Percent Moisture

%

Units

10.4

10.6

2

10

Date: 11/24/2010 12:14 PM

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project:

EE10201 THOMAS SERVICE

Pace Project No.:

4039857

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G

Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/5945

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

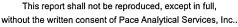
S7 Surrogate recovery outside control limits (not confirmed by re-analysis).

W Non-detect results are reported on a wet weight basis.

Date: 11/24/2010 12:14 PM

REPORT OF LABORATORY ANALYSIS

Page 23 of 23





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Branch/Location] /		Pace		llytica l						COC No.		
Project Contact:	: JOHN HUNT] /			•					_	Quote #:			
Phone:	906-774-3440]	(CHA	<u>IIN</u>	<u>OF</u>			<u>OD'</u>	<u>Y</u>	Mail To Contact:			
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APPENDIX F

LIMITATIONS FOR

PHASE I & II ENVIRONMENTAL SITE ASSESSMENT REPORTS

- 1. In preparation of this report, Coleman Engineering Company (CEC) has relied on certain information provided by the parties referenced herein. Although there may have been some degree of overlap in the information provided by these various sources, we did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this site review.
- 2. Our conclusions regarding the site are based on observations of existing site conditions, our interpretation of available site history and site usage information. The findings are relevant to the dates of our site visit and should not be relied upon to represent conditions or information available at other dates. The findings and conclusions must be considered probabilities based on professional judgment concerning the significance of the limited data gathered during the course of the site review. Conclusions regarding the condition of the site do not represent a warranty that all areas within the site are of the same quality as may be inferred from observable site conditions and readily available site history and limited exploration program carried out as part of this review. Should additional information on environmental conditions at the site which is not contained in this report be obtained, such information should be brought to CEC's attention. We will evaluate such information and, on the basis of our evaluation, may modify the conclusions stated in the report.
- 3. Observations were made of the site and of structures on the site as indicated within the report. Where access to portions of the site or to structures on the site was unavailable or limited, CEC renders no opinion as to the presence of hazardous material or to the presence of indirect evidence relating to hazardous material in that portion of the site or structure. In addition, CEC renders no opinion as to the presence of hazardous material or to the presence of indirect evidence relating to hazardous material where direct observation of interior walls, floor, or ceiling of a structure on the site was obstructed by objects or coverings on or over these surfaces.
- 4. CEC did not perform testing or analyses to determine the presence or concentration of asbestos, lead-based paints, or radon or other naturally occurring materials, nor did it include an evaluation of latent conditions at the site or in the environment at the site.
- 5. No specific attempt was made to check the compliance of present or past owners or operators of the site with federal, state, or local laws and regulations, environmental or otherwise.
- 6. The conclusions and recommendations contained in this report are based in part upon the data obtained from a limited number of soil and groundwater samples obtained from widely spaced subsurface explorations. The nature and extent of variations between these explorations may not become evident until further exploration. If various or other latent conditions then appear evident, it will be necessary to re-evaluate the conclusions and recommendations of this report.

- 7. Water level observations have been made in the borings and/or monitoring wells at the times and under the conditions stated on the boring logs. However, it must be noted that fluctuations in the level of groundwater may occur due to variations in rainfall and other factors different from those prevailing at the time measurements were made.
- 8. Where quantitative laboratory testing has been conducted by an outside laboratory, CEC has relied upon data provided, and has not conducted an independent evaluation of the reliability of these data.
- 9. The conclusions and recommendations contained in this report are based in part upon various types of chemical data and are continent upon their validity. These data have been reviewed and interpretations made in this report. It should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by CEC and the conclusions and recommendations presented herein modified accordingly.
- 10. Chemical analyses have been performed for specific parameters during the course of this site review, as described in the text. However, it should be noted that additional chemical constituents not searched for during the current study may be present in soil and/or groundwater at the site.
- 11. This report has been prepared for, and is intended for the exclusive use of Iron County, Wisconsin. The contents of this report should not be relied upon by any other party without the express written consent of CEC. However, CEC acknowledges that the report may be conveyed to the owner and lending institution associated with the prospective sale and/or lease of the site.