Exhibit S 2, Holly Ridge Northeast Site,
Phase 2 Environmental Site Assessment

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

DENMON ENGINEERING
HOLLY RIDGE NE
INTERSECTION OF US HIGHWAY 80 AND LA HIGHWAY 183
HOLLY RIDGE, LOUISIANA
RICHLAND PARISH

PPM PROJECT NO. 115408-ESAII

DECEMBER 29, 2014

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

AT

HOLLY RIDGE NE
INTERSECTION OF US HIGHWAY 80 AND LA HIGHWAY 183
HOLLY RIDGE, LOUISIANA
RICHLAND PARISH

PREPARED FOR:

DENMON ENGINEERING
ATTN: MR. RANDY DENMON
114 VENABLE LANE
MONROE, LOUISIANA 71203

PPM PROJECT NO. 115408-ESAII

DECEMBER 29, 2014

PREPARED BY:

CHASITY H. REED
TOXICOLOGIST

REVIEWED BY:

CHRIS SAMPOGNARO, P.G., M.S.
SENIOR GEOLOGIST

PPM CONSULTANTS, INC.
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EXECUTIVE SUMMARY

PPM Consultants, Inc. (PPM) was retained by Denmon Engineering to conduct a Phase II Environmental Site Assessment (ESA) of the Holly Ridge NE property located at the intersection of US Highway 80 and LA Highway 183 in Holly Ridge, Louisiana. The purpose of this assessment was to determine if site soil and groundwater have been adversely impacted by the historical uses of the subject property.

PPM conducted field activities at the site on December 4, 2014. Utilizing direct push technology (Geoprobe®), two probe borings (P-1 and P-2) were advanced to an approximate depth of 20 feet below ground surface (BGS).

During the Phase II ESA, soil samples collected from the probe borings were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) per Method 8021B and Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-G) and Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-D) per Method 8015B. Additionally, one-inch temporary wells were installed in the probe borings to aid in the collection of groundwater samples. However, probe well PW-1 did not produce water; therefore, a groundwater sample was not collected from PW-1. Groundwater samples collected the probe well PW-2 were analyzed for TPH-D per Method 8015.

Ranges of constituent concentrations in soil are summarized in the following table:

CONSTITUENT CONCENTRATIONS IN SOIL

Constituents	Minimum Concentrations (ppm)	Maximum Concentrations (ppm)	RECAP Screening Standards (ppm)	Maximum Concentration Boring Location	Sample Depth (ft BGS)
Benzene	<0.05	<0.051	0.051	P-1	13-15
Toluene	<0.05	<0.051	20	P-1	13-15
Ethylbenzene	<0.05	<0.051	19	P-1	13-15
Xylenes	<0.15	<0.15	18	P-1	13-15
TPH-G	<5	<5.1	65	P-1	13-15
TPH-D	<9.8	<9.9	65	P-1	13-15

Constituent concentrations in groundwater are summarized in the following table:

CONSTITUENT CONCENTRATIONS IN GROUNDWATER

Constituents	Constituent Concentration (ppm)	RECAP Screening Standards (ppm)	Maximum Concentration Boring Location
TPH-D	0.1	0.15	PW-2

Based on the findings from the Phase II ESA, PPM concludes the following:

- Laboratory analysis of soil samples revealed all concentrations below the Louisiana Department of Environmental Quality (LDEQ) RECAP Screening Standards.
- Laboratory analysis of groundwater samples revealed all concentrations below the LDEQ RECAP Screening Standards.

Based on the above conclusions, PPM recommends no further investigation at this site.

1.0 INTRODUCTION

PPM Consultants, Inc., (PPM) was retained by Denmon Engineering to conduct a Phase II Environmental Site Assessment (ESA) of the Holly Ridge NE property located at the intersection of US Highway 80 and LA Highway 183 in Holly Ridge, Louisiana. The purpose of this assessment was to determine if site soil and groundwater have been adversely impacted from past use of the property at levels which warrant environmental concern.

2.0 SCOPE OF WORK

Based upon information that has been provided by the Phase I ESA conducted at the site, PPM has developed a scope of work for conducting the Limited Phase II ESA, which consisted of the following:

- Contact "One Call" to locate and mark underground utility lines three days prior to start of fieldwork.
- Preparation of a Health and Safety Plan (HASP).
- Installation of two probe borings to a maximum of 20.0 feet below ground surface (BGS), utilizing a Geoprobe® truck-mounted rig.
- Collection of soil samples at continuous 2-foot intervals from each of the probe borings for field screening and possible laboratory analysis. Field screening will be conducted using headspace analysis techniques with Photo-Ionization Detector (PID) readings, soil/groundwater interface, and other conditions observed in the field. A sample from each interval will be retained at 4°C for possible laboratory analysis. Sample selection will be based on PID readings, soil/groundwater interface, and other conditions observed in the field.
- Laboratory analysis of soil samples for the following:
    - One soil sample from the boring located in the center of the property will be analyzed for Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-D) per Method 8015B.
    - One soil sample from the boring located near the northwest corner of the property will be selected for laboratory analysis of soil samples benzene, toluene, ethylbenzene, and xylenes (BTEX) per Method 8021B and Total

Petroleum Hydrocarbons – Gasoline Range Organics (TPH-G) and TPH-D, per Method 8015B.

- Installation of a temporary well in each probe boring to aid in the collection of one groundwater sample from the temporary wells for laboratory analysis of the following:
  - One groundwater sample from the boring located in the center of the property will be analyzed for TPH-D per Method 8015B.
  - One groundwater sample from the boring located near the northwest corner of the property will be analyzed for BTEX per Method 8021B, TPH-G and TPH-D per Method 8015B.
- Preparation of a Phase II ESA Report for the site presenting the scope of work, site background, investigative methodology, findings, and conclusions from the Phase II ESA field activities.

3.0 BACKGROUND

3.1 SITE DESCRIPTION

The site is approximately 260 acres in size and is located at the intersection of US Highway 80 and LA Highway 183 in Holly Ridge, Richland Parish, Louisiana. Geographically, the site is located in Section 14, Township 17 North, Range 8 East on the Dunn, Louisiana Quadrangle at approximately Latitude 32° 27' 41" and Longitude 91° 37' 15". The site location is shown in **Figure 1**, **Site Location Map**, in **Appendix A**, **Figures**. Site features are shown on **Figure 2, Site Map**, in **Appendix A**.

4.0 SAMPLING METHODOLOGY

4.1 METHODOLOGY

PPM conducted field activities at the site on December 4, 2014. Utilizing direct push technology (Geoprobe®), two probe borings, P-1 and P-2, were advanced to an approximate depth of 20 feet BGS. Temporary wells PW-1 and PW-2 were installed in each probe probing to aid in the collection of groundwater samples. The probe boring locations are shown in **Figure 2, Site Map**.

4.2 SOIL SAMPLING

Probe boring soil samples were collected at continuous 2-foot intervals from each boring for field screening purposes and possible laboratory analysis. Probe boring samples were collected at continuous intervals using a 1 ½-inch inside diameter (I.D.) Macro-Core Sampler. The Macro-Core Sampler sampling device consisted of a 51 ¼ -inch stainless-steel sample tube, cutting shoe, and drive head. Each sample tube was lined with 48-inch clear disposable plastic tubes.

Each sample tube, upon retrieval, was disassembled on a clean surface. Plastic sample tubes were opened with a clean cutting blade to remove soil from the tube. Samples were removed from the tube at discrete 2-foot intervals and containerized in clean prepared glass jars for laboratory analysis and mason jars for field screening purposes. New disposal sampling tubes were used at each sampling interval.

Field screening was conducted utilizing headspace analysis techniques with a Rae Systems MiniRae 2000 PGM 7600 Photo-ionization Detector calibrated with 100 parts per million (ppm) isobutylene span gas. Field screening results were used to determine the distribution of hydrocarbon concentrations, if present, in soil during field activities and to select soil samples for subsequent laboratory analysis.

Each sample containerized for laboratory analysis was firmly packed into the laboratory-prepared glass sample jar to the fullest extent possible to minimize headspace within the container. Each glass container was tightly sealed with a Teflon® lid. Clean disposable nitrile gloves were worn during sample collection and were changed between each sample acquisition.

All soil sampling equipment was thoroughly decontaminated between each sample acquisition. Decontamination consisted of washing the equipment in an Alconox® solution, followed by a rinsing with alcohol and distilled water. Each piece of equipment was allowed to air dry between sample acquisitions.

4.3 GROUNDWATER SAMPLING

Temporary wells were installed in each probe boring to aid in collection of groundwater. However, groundwater was not produced at probe well PW-1; therefore, a groundwater sample was not collected from PW-1. The temporary wells were developed using a peristaltic pump with a sufficient length of chemically inert disposable tubing to reach the middle of the screen of each well. The pump was run at a low rate so as to minimize drawdown in each well. The groundwater samples submitted for laboratory analysis were

collected using a disposable bailer. Disposable nitrile gloves were also worn during the sample collection. The samples were transferred into laboratory-prepared containers and immediately preserved on ice.

4.4 SAMPLE PRESERVATION AND DISPATCH

Soil and groundwater samples retained for laboratory analysis were immediately placed on ice and preserved at 4^{o}C. These samples were also labeled to document the appropriate project number, probe boring number, sample number, well number, project name, project location, date, time sampled, and analyses requested. The samples were subsequently sealed in insulated coolers and shipped via common courier to Accutest Laboratories in Scott, Louisiana, for laboratory analysis. The coolers were submitted with a chain-of-custody form. Chain-of-custody forms included the same information included on sample labels as well as container size, the collector's signature, and signatures of persons who maintained custody of the samples.

5.0 FINDINGS

5.1 SITE GEOLOGY

Subsurface geology at the site was determined by visual inspection of soil samples and observations made during installation of the probe borings. Site lithology included alluvial sediments ranging from sandy clay to sands. Groundwater was encountered at approximate depths ranging from 15 to 17 feet BGS in the probe borings. A detailed lithologic description of each boring is provided in **Appendix B, Geologic Boring Logs**.

5.2 LABORATORY RESULTS

5.2.1 Soil Analytical Results

Laboratory analytical results for soil are summarized in **Table C-1, Soil Analytical Summary**, in **Appendix C, Tables**. Complete soil analytical results are presented in **Appendix D, Laboratory Analytical Reports**. Soil concentrations are also presented in **Figure 3, Constituent Concentrations in Soil**, in **Appendix A, Figures**.

Ranges of constituent concentrations in soil are summarized in the following table:

TABLE 5-1
CONSTITUENT CONCENTRATIONS IN SOIL

Constituents	Minimum Concentrations (ppm)	Maximum Concentrations (ppm)	RECAP Screening Standards (ppm)	Maximum Concentration Boring Location	Sample Depth (ft BGS)
Benzene	<0.05	<0.051	0.051	P-1	13-15
Toluene	<0.05	<0.051	20	P-1	13-15
Ethylbenzene	<0.05	<0.051	19	P-1	13-15
Xylenes	<0.15	<0.15	18	P-1	13-15
TPH-G	<5	<5.1	65	P-1	13-15
TPH-D	<9.8	<9.9	65	P-1	13-15

5.2.2 Groundwater Analytical Results

Laboratory analytical results for groundwater are summarized in **Table C-2, Groundwater Analytical Summary**, in **Appendix C, Tables**. Complete groundwater analytical results are presented in **Appendix D, Laboratory Analytical Reports**. Dissolved hydrocarbon concentrations are presented in **Figure 4, Dissolved Constituent Concentrations in Groundwater**, in **Appendix A, Figures**.

Constituent concentrations in groundwater are summarized in the following table:

TABLE 5-2
CONSTITUENT CONCENTRATIONS IN GROUNDWATER

Constituents	Constituent Concentration (ppm)	RECAP Screening Standards (ppm)	Maximum Concentration Boring Location
TPH-D	0.1	0.15	PW-2

6.0 CONCLUSIONS AND RECOMMENDATIONS

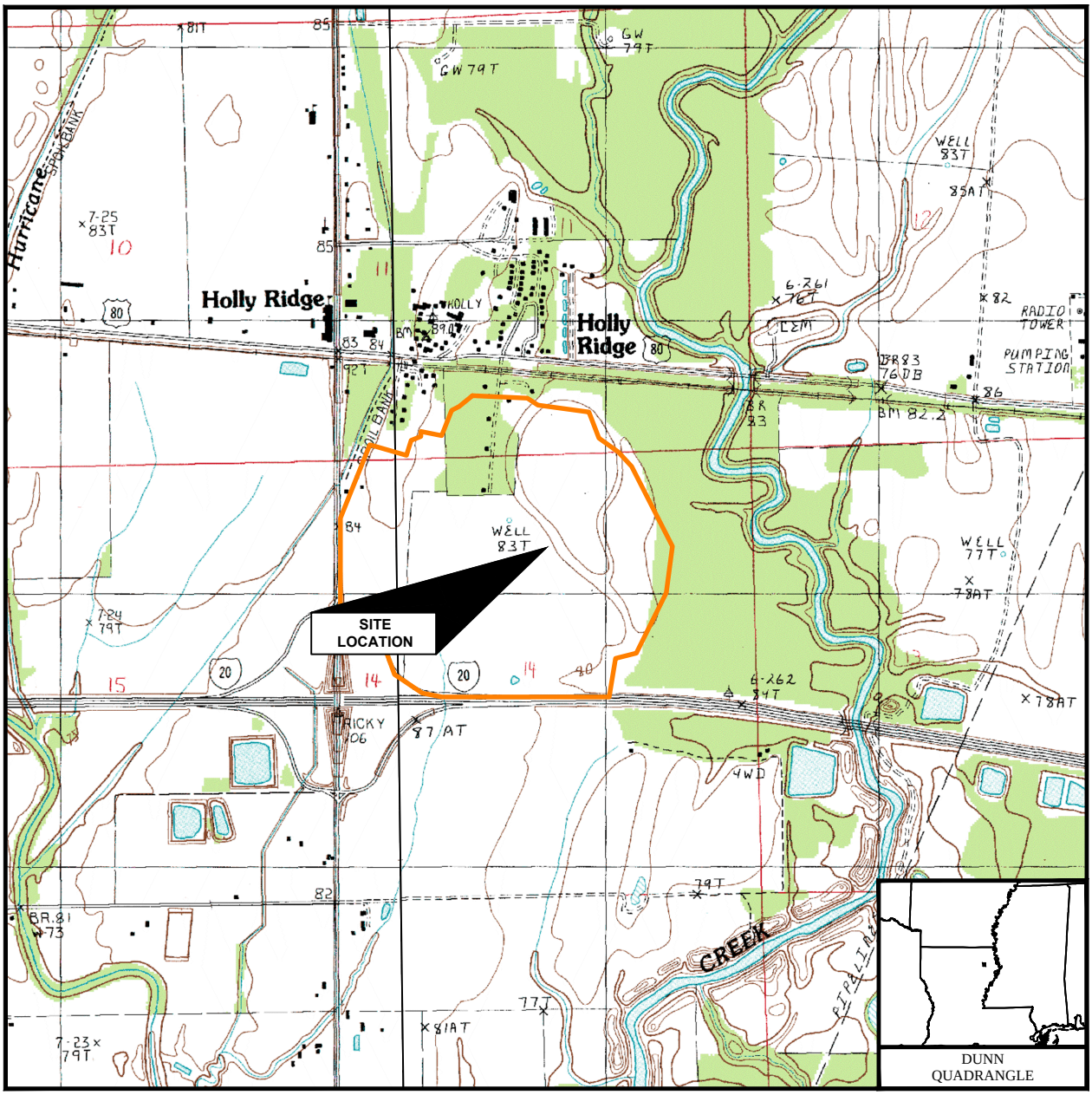
Based on the findings from the Phase II ESA, PPM concludes the following:

- Laboratory analysis of soil samples revealed all concentrations below the LDEQ RECAP Screening Standards.
- Laboratory analysis of groundwater samples revealed all concentrations below the LDEQ RECAP Screening Standards.

Based on the above conclusions, PPM recommends no further investigation at this site.

APPENDICES

APPENDIX A – FIGURES



SCALE: 1 : 24,000

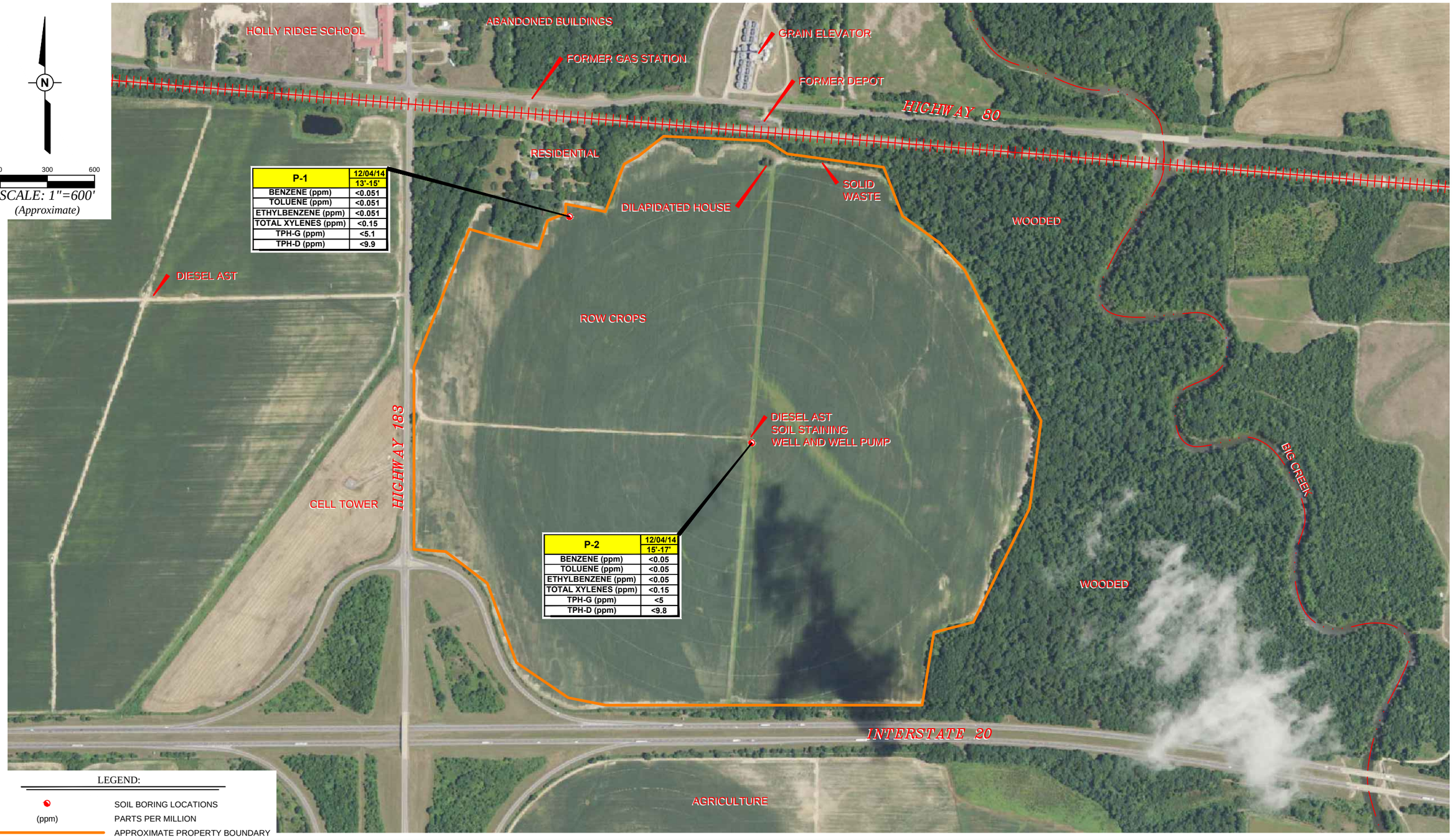
1 .5 0 1
MILES
1000 0 1000 5000 10,000
FEET
1 0 KILOMETER 1 2
1000 0 METER 1000 2000

PPM CONSULTANTS, INC.			
DRAWN BY: JCP	DRAWN DATE: 12/12/14	DENMON ENGINEERING **HOLLY RIDGE NE** INTERSECTION OF HIGHWAY 80 AND HIGHWAY 183 HOLLY RIDGE, LOUISIANA	SITE LOCATION MAP
PROJECT NUMBER: 115408	BILLING GROUP: ESAII		FIGURE NUMBER 1

Z:\Denmon Engineering Company, Inc\115408\Esa2\115408-ESA2 Holly Ridge NE.dwg, 1 Site Location Map, 12/29/2014 2:58:33 PM, jay prickett

Z:\Denmon Engineering Company, Inc\115408\Esa2\115408-ESA2 Holly Ridge NE.dwg, 2 Site Map, 12/29/2014 2:58:36 PM, jay prickett

PPM CONSULTANTS, INC.		DENMON ENGINEERING **HOLLY RIDGE NE** INTERSECTION OF HIGHWAY 80 AND HIGHWAY 183 HOLLY RIDGE, LOUISIANA	SITE MAP
DRAWN BY: JCP	DRAWN DATE: 12/12/14		FIGURE NUMBER 2
PROJECT NUMBER: 115408	BILLING GROUP: ESAII		



P-1	12/04/14
	13'-15'
BENZENE (ppm)	<0.051
TOLUENE (ppm)	<0.051
ETHYLBENZENE (ppm)	<0.051
TOTAL XYLENES (ppm)	<0.15
TPH-G (ppm)	<5.1
TPH-D (ppm)	<9.9

P-2	12/04/14
	15'-17'
BENZENE (ppm)	<0.05
TOLUENE (ppm)	<0.05
ETHYLBENZENE (ppm)	<0.05
TOTAL XYLENES (ppm)	<0.15
TPH-G (ppm)	<5
TPH-D (ppm)	<9.8

LEGEND:

- SOIL BORING LOCATIONS
- (ppm) PARTS PER MILLION
- APPROXIMATE PROPERTY BOUNDARY

Z:\Denmon Engineering Company, Inc\115408\Esa2\115408-ESA2 Holly Ridge NE.dwg, 3 Concs in Soil, 12/29/2014 2:58:37 PM, jay prickett

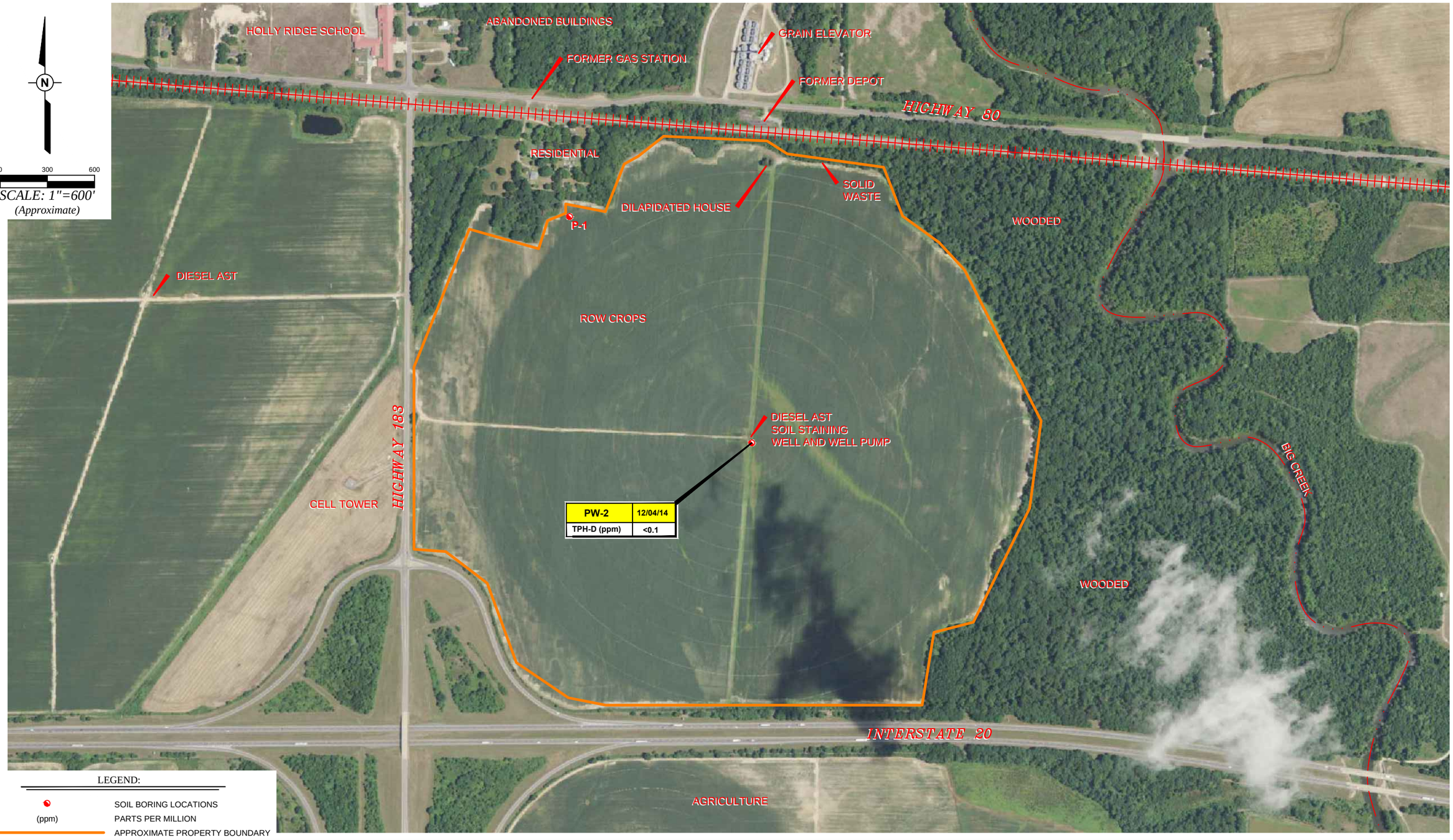
PPM CONSULTANTS, INC.

DRAWN BY:	DRAWN DATE:
JCP	12/12/14
PROJECT NUMBER:	BILLING GROUP:
115408	ESAII

DENMON ENGINEERING
HOLLY RIDGE NE
INTERSECTION OF HIGHWAY 80 AND HIGHWAY 183
HOLLY RIDGE, LOUISIANA

CONSTITUENT CONCENTRATIONS IN SOIL

FIGURE NUMBER
3



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PPM CONSULTANTS, INC.		DENMON ENGINEERING **HOLLY RIDGE NE** INTERSECTION OF HIGHWAY 80 AND HIGHWAY 183 HOLLY RIDGE, LOUISIANA	DISSOLVED CONSTITUENT CONCENTRATIONS IN GROUNDWATER
DRAWN BY: JCP	DRAWN DATE: 12/12/14		FIGURE NUMBER 4
PROJECT NUMBER: 115408	BILLING GROUP: ESAII		

APPENDIX B – GEOLOGIC BORING LOGS

LOG OF BORING P-1

Client: Denmon Engineering
Site: Holly Ridge NE
Location: Holly Ridge, Louisiana
Project: Phase 2 ESA

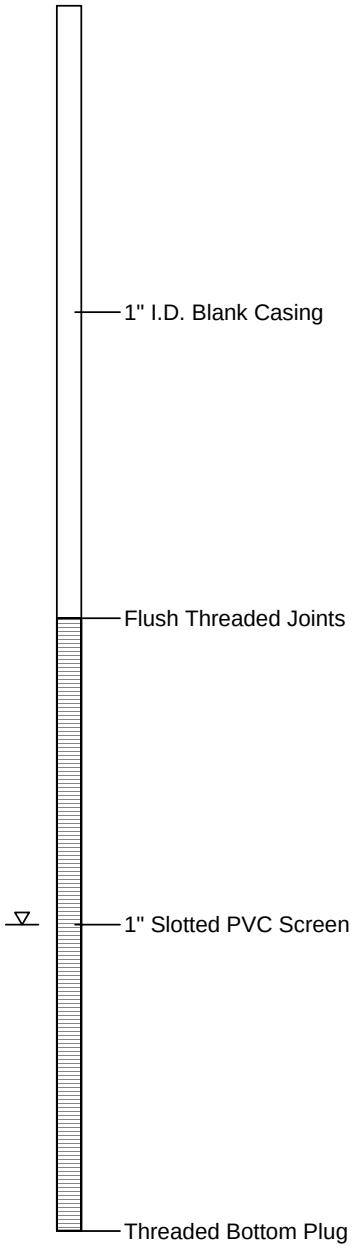
PPM Project No. 115408

Date Drilled	: December 4, 2014	Total Well Depth (ft.)	: 20.0
Drilled By	: Kerri Powell	Initial GW Level (ft.)	: 15.0
Drilling Company	: Walker Hill Environmental	Final GW Level (ft.)	: NA
Drilling Method	: Hydraulically-Driven Probe	Surface Elevation (ft.)	: NA
Total Boring Depth (ft.)	: 20.0	Logged By	: Garrett Hill

Water Levels
▼ Final groundwater level
▽ Initial groundwater level

Depth in Feet	Surf. Elev.	USCS	Water Level	GRAPHIC	DESCRIPTION	Sample	Headspace Concentration (ppm)
0–2		ML			CLAYEY SILT, soft, moist, homogeneous, low plasticity, brown	1	0
2–4		ML				2	0
4–6		CL			SANDY CLAY, fine, moist, homogeneous, low plasticity, brown	3	0
6–8		SP			SAND, fine, moist, homogeneous, brown	4	0
8–10		SP				5	0
10–12		SM			SANDY SILT, very fine, moist, homogeneous, low plasticity, brown/tan	6	0
12–14		SM				7	0
14–16		SP	▽		SAND, fine, moist, homogeneous, tan/brown	8	0
16–18		SP				9	0
18–20		SP				10	0
20					Boring terminated at 20.0 feet BGS. Sample S-7 submitted for laboratory analysis.		

Well ID: PW-1



12-08-2014 \\ppmmonroe\PPM_Projects_Overhead\Employees\Jon Roger\Boring Log Backup\115408\p-1.bor

LOG OF BORING P-2

Client: Denmon Engineering
Site: Holly Ridge NE
Location: Holly Ridge, Louisiana
Project: Phase 2 ESA

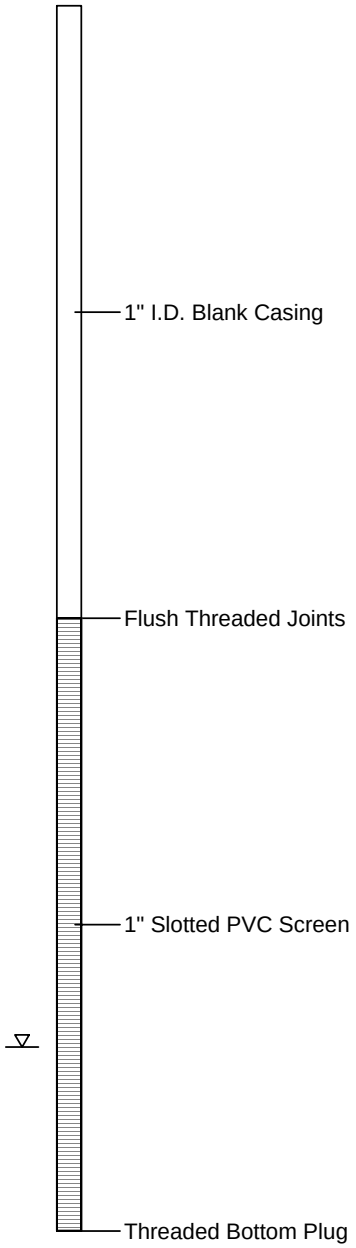
PPM Project No. 115408

Date Drilled	: December 4, 2014	Total Well Depth (ft.)	: 20.0
Drilled By	: Kerri Powell	Initial GW Level (ft.)	: 17.0
Drilling Company	: Walker Hill Environmental	Final GW Level (ft.)	: NA
Drilling Method	: Hydraulically-Driven Probe	Surface Elevation (ft.)	: NA
Total Boring Depth (ft.)	: 20.0	Logged By	: Garrett Hill

Water Levels
▼ Final groundwater level
▽ Initial groundwater level

Well ID: PW-2

Depth in Feet	Surf. Elev.	USCS	Water Level	GRAPHIC	DESCRIPTION	Sample	Headspace Concentration (ppm)
0–5		CL			SANDY CLAY, fine, moist, homogeneous, low plasticity, brown	1	0
						2	0
					Very moist	3	0
5–10		SM			SANDY SILT, soft, moist, homogeneous, low plasticity, brown/tan	4	0
						5	0
						6	0
						7	0
10–15							
15–20		SP	▽		SAND, fine, moist, homogeneous, tan	8	0
						9	0
						10	0
20					Boring terminated at 20.0 feet BGS. Sample S-8 submitted for laboratory analysis.		



APPENDIX C – TABLES

TABLE C-1
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Benzene	Code	Toluene	Code	Ethyl-Benzene	Code	Xylenes	Code	TPH-G	Code	TPH-D
P-1	P-1/S-7	13	15	12/04/14		0	<	**0.051**	<	**0.051**	<	**0.051**	<	**0.15**	<	**5.1**	<	**9.9**
P-2	P-1/S-8	15	17	12/04/14		0	<	0.05	<	0.05	<	0.05	<	**0.15**	<	5	<	9.8
Minimum Concentration							**<**	**0.05**	**<**	**0.05**	**<**	**0.05**	**<**	**0.15**	**<**	**5**	**<**	**9.8**
Maximum Concentration							**<**	**0.051**	**<**	**0.051**	**<**	**0.051**	**<**	**0.15**	**<**	**5.1**	**<**	**9.9**
Screening Standards								**0.051**		**20**		**19**		**18**		**65**		**65**

Notes:
Bold RED type indicate concentration exceeds the RECAP Screening Standard.
Bold BLUE type indicates highest concentration for each COC.
NA - Not Analyzed for Parameter
All concentrations are in parts per million (ppm)

TABLE C-2
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	TPH-D
PW-2	12/04/14	<	**0.1**
Minimum Concentrations		<	**0.1**
Maximum Concentrations		<	**0.1**
Screening Standards			**0.15**

Notes:
Bold RED type indicate concentration exceeds the RECA
Bold BLUE type indicates highest concentration for each
NA - Not Analyzed for Parameter
All concentrations are in parts per million (ppm)

APPENDIX D – LABORATORY ANALYTICAL REPORTS

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

PPM CONSULTANTS, INC.

Certificate of Analysis Number:

L0051455

Report To:		Project Name:	115408
PPM CONSULTANTS, INC.		Site:	115408 (HOLLY RIDGE NE)
Chris Sampognaro		Site Address:	
1600 LAMY LANE			
MONROE		PO Number:	
LA		State:	Louisiana
71201-		State Cert. No.:	02048
ph: (318) 323-7270	fax: (318) 323-6593	Date Reported:	12/18/2014

NOTE: THIS REPORT HAS BEEN AMENDED FROM THE ORIGINAL. THIS REPORT REPLACES IN ITS ENTIRETY ANY PREVIOUSLY SUBMITTED COPY

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.
.

12/18/2014

Rebecca Hebert
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

PPM CONSULTANTS, INC.

Certificate of Analysis Number:

L0051455

Report To:
PPM CONSULTANTS, INC.
Chris Sampognaro
1600 LAMY LANE

MONROE
LA
71201-
ph: (318) 323-7270 fax: (318) 323-6593

Fax To:

Project Name: 115408
Site: 115408 (HOLLY RIDGE NE)
Site Address:

PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 12/18/2014

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
P-1-7	L0051455-01	Soil	12/04/2014 7:53	12/5/2014 4:10:00 PM		☐
P-2-8	L0051455-03	Soil	12/04/2014 9:05	12/5/2014 4:10:00 PM		☐
PW-2	L0051455-05	Water	12/04/2014 13:10	12/5/2014 4:10:00 PM		☐

Rebecca Hebert
Project Manager

12/18/2014
Date

Ron Benjamin
Laboratory Director

Karen Rodrigue-Varnado
Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

12/18/2014 6:04:37 PM

Date: **Thursday, December 18, 2014**

*****CHRONOLOGY REPORT*****

Workorder	Sample_ID	Matrix	Collected	Received	Analyzed	Test Name	Method
L0051455	L0051455-01A	Soil	12/4/2014 7:53:00 A	12/5/2014 4:10:00 PM			
					12/9/2014 12:49:00 AM	RECAP Diesel Range Organics by Method 8015C	SW8015C
					12/9/2014 11:29:27 AM	BTEX by Method 8021B	SW8021B
					12/9/2014 11:58:12 AM	BTEX by Method 8021B	SW8021B
					12/10/2014 1:00:29 AM	RECAP Gasoline Range Organics	SW8015C
					12/10/2014 1:33:31 AM	RECAP Gasoline Range Organics	SW8015C
					12/10/2014 6:26:00 PM	RECAP Diesel Range Organics by Method 8015C	SW8015C
					12/10/2014 6:44:00 PM	RECAP Diesel Range Organics by Method 8015C	SW8015C

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Date: Thursday, December 18, 2014

*****SUMMARY REPORT*****

Company: PPM CONSULTANTS, INC. **Project:** 115408

Site: 115408 (HOLLY RIDGE NE)

Workorder	Matrix	Client ID	Collected	Compound	Result	Det Limit	Method
L0051455-01A	Soil	P-1-7	12/4/2014 7:53:00 AM	Benzene	ND	0.051 mg/kg	SW8021B
				Toluene	ND	0.051 mg/kg	SW8021B
				Ethylbenzene	ND	0.051 mg/kg	SW8021B
				Xylenes,Total	ND	0.15 mg/kg	SW8021B
				BTEX, Total	ND	0.051 mg/kg	SW8021B
				Gasoline Range Organics (C6-C10)	ND	5.1 mg/Kg	SW8015C
				m,p-Xylene	ND	0.1 mg/kg	SW8021B
				o-Xylene	ND	0.051 mg/kg	SW8021B
L0051455-01B	Soil	P-1-7	12/4/2014 7:53:00 AM	Diesel Range Organics (C10-C28)	ND	9.9 mg/Kg	SW8015C
L0051455-03A	Soil	P-2-8	12/4/2014 9:05:00 AM	Benzene	ND	0.05 mg/kg	SW8021B
				Toluene	ND	0.05 mg/kg	SW8021B
				Ethylbenzene	ND	0.05 mg/kg	SW8021B
				Xylenes,Total	ND	0.15 mg/kg	SW8021B
				BTEX, Total	ND	0.05 mg/kg	SW8021B
				Gasoline Range Organics (C6-C10)	ND	5 mg/Kg	SW8015C
				m,p-Xylene	ND	0.1 mg/kg	SW8021B
				o-Xylene	ND	0.05 mg/kg	SW8021B
L0051455-03B	Soil	P-2-8	12/4/2014 9:05:00 AM	Diesel Range Organics (C10-C28)	ND	9.8 mg/Kg	SW8015C
L0051455-05A	Water	PW-2	12/4/2014 1:10:00 PM	Diesel Range Organics (C10-C28)	ND	100 ug/L	SW8015C

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: P-1-7 **Collected:** 12/04/2014 7:53 **Lab Sample ID:** L0051455-01

Site: 115408 (HOLLY RIDGE NE)

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B					**MCL**	**SW8021B**	**Units: mg/kg**	
Benzene	ND			0.051	50	12/09/14 11:29	MRB	5800361
Ethylbenzene	ND			0.051	50	12/09/14 11:29	MRB	5800361
Toluene	ND			0.051	50	12/09/14 11:29	MRB	5800361
m,p-Xylene	ND			0.1	50	12/09/14 11:29	MRB	5800361
o-Xylene	ND			0.051	50	12/09/14 11:29	MRB	5800361
Xylenes,Total	ND			0.15	50	12/09/14 11:29	MRB	5800361
BTEX, Total	ND			0.051	50	12/09/14 11:29	MRB	5800361
Surr: 1,4-Difluorobenzene	94.8		%	54-130	50	12/09/14 11:29	MRB	5800361
Surr: 4-Bromofluorobenzene	99.5		%	46-172	50	12/09/14 11:29	MRB	5800361

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	12/04/2014 7:53		1.02

RECAP DIESEL RANGE ORGANICS BY METHOD 8015C					MCL	SW8015C	Units: mg/Kg	
Diesel Range Organics (C10-C28)	ND			9.9	1	12/10/14 18:26	JT1	5802439
Surr: o-Terphenyl	67.3		%	39-100	1	12/10/14 18:26	JT1	5802439

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3546	12/10/2014 8:30	JNY	0.99

RECAP GASOLINE RANGE ORGANICS					MCL	SW8015C	Units: mg/Kg	
Gasoline Range Organics (C6-C10)	ND			5.1	50	12/10/14 1:00	MRB	5801014
Surr: 1,4-Difluorobenzene	92.4		%	55-138	50	12/10/14 1:00	MRB	5801014
Surr: 4-Bromofluorobenzene	95.1		%	27-169	50	12/10/14 1:00	MRB	5801014

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	12/04/2014 7:53		1.02

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: P-2-8 **Collected:** 12/04/2014 9:05 **Lab Sample ID:** L0051455-03

Site: 115408 (HOLLY RIDGE NE)

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
BTEX BY METHOD 8021B					**MCL**	**SW8021B**	**Units: mg/kg**	
Benzene	ND			0.05	50	12/09/14 11:58	MRB	5800362
Ethylbenzene	ND			0.05	50	12/09/14 11:58	MRB	5800362
Toluene	ND			0.05	50	12/09/14 11:58	MRB	5800362
m,p-Xylene	ND			0.1	50	12/09/14 11:58	MRB	5800362
o-Xylene	ND			0.05	50	12/09/14 11:58	MRB	5800362
Xylenes,Total	ND			0.15	50	12/09/14 11:58	MRB	5800362
BTEX, Total	ND			0.05	50	12/09/14 11:58	MRB	5800362
Surr: 1,4-Difluorobenzene	95.7		%	54-130	50	12/09/14 11:58	MRB	5800362
Surr: 4-Bromofluorobenzene	100		%	46-172	50	12/09/14 11:58	MRB	5800362

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	12/04/2014 11:07	MAB	1.00

RECAP DIESEL RANGE ORGANICS BY METHOD 8015C					MCL	SW8015C	Units: mg/Kg	
Diesel Range Organics (C10-C28)	ND			9.8	1	12/10/14 18:44	JT1	5802440
Surr: o-Terphenyl	75.0		%	39-100	1	12/10/14 18:44	JT1	5802440

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3546	12/10/2014 8:30	JNY	0.98

RECAP GASOLINE RANGE ORGANICS					MCL	SW8015C	Units: mg/Kg	
Gasoline Range Organics (C6-C10)	ND			5	50	12/10/14 1:33	MRB	5801019
Surr: 1,4-Difluorobenzene	92.3		%	55-138	50	12/10/14 1:33	MRB	5801019
Surr: 4-Bromofluorobenzene	96.4		%	27-169	50	12/10/14 1:33	MRB	5801019

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	12/04/2014 11:07	MAB	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: PW-2 **Collected:** 12/04/2014 13:10 **Lab Sample ID:** L0051455-05

Site: 115408 (HOLLY RIDGE NE)

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
RECAP DIESEL RANGE ORGANICS BY METHOD 8015C			**MCL**	**SW8015C**	**Units: ug/L**		
Diesel Range Organics (C10-C28)	ND		100	1	12/09/14 0:49	E_G	5800955
Surr: o-Terphenyl	60.7	%	47-125	1	12/09/14 0:49	E_G	5800955

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	12/08/2014 14:52	MFF	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Quality Control Documentation

Version 2.1 - Modified February 11, 2011

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ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

PPM CONSULTANTS, INC.

115408

Analysis: RECAP Diesel Range Organics by Method 8015C
Method: SW8015C
WorkOrder: L0051455
Lab Batch ID: 137249

Method Blank

RunID: TPHC_141208E-5800951 Units: ug/L
Analysis Date: 12/09/2014 12:37 Analyst: E_G
Preparation Date: 12/08/2014 14:52 Prep By: MFF Method: SW3511

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0051455-05A	PW-2

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	100
Surr: o-Terphenyl	105.3	47-125

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHC_141208E-5800952 Units: ug/L
Analysis Date: 12/09/2014 13:01 Analyst: E_G
Preparation Date: 12/08/2014 14:52 Prep By: MFF Method: SW3511

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	6000	6550	109	6000	6290	105	4.1	26	21	140
Surr: o-Terphenyl	0.100	0.113	113	0.100	0.108	108	4.0	30	47	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

PPM CONSULTANTS, INC.

115408

Analysis: RECAP Diesel Range Organics by Method 8015C **WorkOrder:** L0051455
Method: SW8015C **Lab Batch ID:** 137274

Method Blank

RunID: TPHB_141211A-5802436 Units: mg/Kg
Analysis Date: 12/10/2014 16:57 Analyst: JT1
Preparation Date: 12/10/2014 8:30 Prep By: JNY Method: SW3546

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0051455-01B	P-1-7
L0051455-03B	P-2-8

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	10
Surr: o-Terphenyl	83.9	38-135

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHB_141211A-5802437 Units: mg/Kg
Analysis Date: 12/10/2014 17:14 Analyst: JT1
Preparation Date: 12/10/2014 8:30 Prep By: JNY Method: SW3546

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	150	135	89.8	150	132	88.1	1.9	20	45	102
Surr: o-Terphenyl	2.50	2.38	95.0	2.50	2.26	90.3	5.1	30	38	135

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0051469-01
RunID: TPHB_141211A-5802455 Units: mg/Kg
Analysis Date: 12/11/2014 2:18 Analyst: JT1
Preparation Date: 12/10/2014 8:30 Prep By: JNY Method: SW3546

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	6470	150	4020	N/C	147	4610	N/C	N/C	20	45	102
Surr: o-Terphenyl	ND	2.5	D	D	2.45	D	D	D	30	38	135

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

PPM CONSULTANTS, INC.

115408

Analysis: **BTEX by Method 8021B** **WorkOrder:** **L0051455**
Method: **SW8021B** **Lab Batch ID:** **R346598**

Method Blank

RunID: GCLC_141209A-5800355 Units: mg/kg
Analysis Date: 12/09/2014 11:00 Analyst: MRB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0051455-01A	P-1-7
L0051455-03A	P-2-8

Analyte	Result	Rep Limit
Benzene	ND	0.050
Ethylbenzene	ND	0.050
Toluene	ND	0.050
m,p-Xylene	ND	0.10
o-Xylene	ND	0.050
BTEX, Total	ND	0.050
Xylenes,Total	ND	0.15
Surr: 1,4-Difluorobenzene	95.7	80-115
Surr: 4-Bromofluorobenzene	101.4	79-135

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCLC_141209A-5800353 Units: mg/kg
Analysis Date: 12/09/2014 10:02 Analyst: MRB

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	2.50	2.32	92.9	2.50	2.29	91.8	1.2	9	79	121
Ethylbenzene	2.50	2.59	104	2.50	2.58	103	0.4	9	82	121
Toluene	2.50	2.42	96.8	2.50	2.40	96.0	0.9	9	83	119
m,p-Xylene	5.00	5.25	105	5.00	5.22	104	0.7	9	82	118
o-Xylene	2.50	2.44	97.8	2.50	2.43	97.1	0.7	9	78	127
Xylenes,Total	7.50	7.69	103	7.50	7.65	102	0.7	7	83	119
Surr: 1,4-Difluorobenzene	1500	1450	96.7	1500	1450	96.7	0.0	30	80	115
Surr: 4-Bromofluorobenzene	1500	1520	101	1500	1520	101	0.2	30	79	135

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

PPM CONSULTANTS, INC.

115408

Analysis: **BTEX by Method 8021B** **WorkOrder:** **L0051455**
Method: **SW8021B** **Lab Batch ID:** **R346598**

Sample Spiked: L0051455-03
RunID: GCLC_141209A-5800386 Units: mg/kg
Analysis Date: 12/09/2014 12:57 Analyst: MRB
Preparation Date: 12/04/2014 11:07 Prep By: MAB Method: SW5035

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	25	22.5	90.0	25	22.9	91.4	1.51	8	80	120
Ethylbenzene	ND	25	24.8	99.0	25	25.7	103	3.80	8	84	121
Toluene	ND	25	22.9	91.5	25	23.7	94.8	3.63	8	83	122
m,p-Xylene	ND	50	49.8	99.7	50	52.0	104	4.24	7	84	122
o-Xylene	ND	25	23.5	93.8	25	24.5	97.8	4.19	8	85	119
Xylenes,Total	ND	75	73.3	97.7	75	76.5	102	4.22	7	85	120
Surr: 1,4-Difluorobenzene	ND	15000	15000	100	15000	14500	96.6	3.56	30	80	115
Surr: 4-Bromofluorobenzene	ND	15000	15000	100	15000	15400	103	2.68	30	79	135

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

PPM CONSULTANTS, INC.

115408

Analysis: RECAP Gasoline Range Organics **WorkOrder:** L0051455
Method: SW8015C **Lab Batch ID:** R346630

Method Blank

RunID: GCLO_141209C-5801018 Units: mg/Kg
Analysis Date: 12/09/2014 23:54 Analyst: MRB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0051455-01A	P-1-7
L0051455-03A	P-2-8

Analyte	Result	Rep Limit
Gasoline Range Organics (C6-C10)	ND	5.0
Surr: 1,4-Difluorobenzene	96.0	52-140
Surr: 4-Bromofluorobenzene	99.6	63-139

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCLO_141209C-5801016 Units: mg/Kg
Analysis Date: 12/09/2014 22:48 Analyst: MRB

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Gasoline Range Organics (C6-C10)	250	242	97.0	250	250	99.9	3.0	6	79	121
Surr: 1,4-Difluorobenzene	1500	1350	90.2	1500	1350	90.3	0.1	30	52	140
Surr: 4-Bromofluorobenzene	1500	1560	104	1500	1640	110	5.1	30	63	139

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0051459-11
RunID: GCLO_141209C-5801063 Units: mg/Kg
Analysis Date: 12/10/2014 3:45 Analyst: MRB
Preparation Date: 12/04/2014 11:01 Prep By: MAB Method: SW5035

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics (C6-C10)	ND	2500	2560	102	2500	2530	101	1.03	10	74	121
Surr: 1,4-Difluorobenzene	ND	15000	13900	92.4	15000	13700	91.2	1.26	30	52	140
Surr: 4-Bromofluorobenzene	ND	15000	15900	106	15000	15800	105	0.333	30	63	139

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

PPM CONSULTANTS, INC.

115408

Analysis:	**RECAP Gasoline Range Organics**	**WorkOrder:**	**L0051455**
Method:	**SW8015C**	**Lab Batch ID:**	**R346630**

Qualifiers:

- ND/U - Not Detected at the Reporting Limit
- B - Analyte Detected In The Associated Method Blank
- J - Estimated Value Between MDL And PQL
- E - Estimated Value exceeds calibration curve
- MI - Matrix Interference
- D - Recovery Unreportable due to Dilution
- * - Recovery Outside Advisable QC Limits
- N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
- TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

Sample Receipt Checklist

And

Chain of Custody

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**L0051455**	Received By:	**MAR**
Date and Time Received:	**12/5/2014 4:10:00 PM**	Carrier name:	**Accutest-Delivery**
Temperature:	**4.9°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐		
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐		
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑		
4.	**Chain of custody present?**	Yes ☑	No ☐			
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐			
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐			
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐			
8.	**Sample containers intact?**	Yes ☑	No ☐			
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐			
10.	**All samples received within holding time?**	Yes ☑	No ☐			
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐			
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐		
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑		

***VOA Preservation Checked After Sample Analysis**

Accutest Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Gulf Coast
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL.337-237-4775 FAX: 337-237-7838
www.accutest.com

LSR-F005.00

PAGE 1 OF 1

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: L005 1455

Client / Reporting Information

Company Name: APM Consultants
Street Address: 600 Lamy Lane
City / State / Zip: Monroe, Louisiana
Project Contact: Chris Sampognaro | E-mail:
Phone #: 318) 323-7270 | Fax #:
Sampler(s) Name(s): Bobby G Hill | Phone #:

Project Information

Project Name: 115408 (Holly Ridge NE)
Street:
City: | State:
Project #: 115408
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City: | State: | Zip:
Attention:

Requested Analyses: TPH-D 8015B; BTEX 8021B; TPH-G 8015B

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	TPH-D 8015B	BTEX 8021B	TPH-G 8015B	LAB USE ONLY
	P-1-7	12/4	0753	BGH	SO	2						2							X	X	X	2
	~~P-1-10~~	~~12/4~~	~~0800~~	~~BGH~~	~~SO~~	~~2~~						~~2~~							X	X	X	2
	P-2-8	12/4	0905	BGH	SO	2						2							X	X	X	2
	~~P-2-10~~	~~12/4~~	~~0910~~	~~BGH~~	~~SO~~	~~2~~						~~2~~							X	X	X	2
	PW-2	12/4	1310	BGH	GW	3						X							X			3

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other ________

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions (VS)

W-1016 (12) RM-26
TIER (1F) RS-45
Hold boring termination samples (P- -10)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	12/5/14 1200	1 [signature]	2 [signature]	12/5/14 16:10	2 Mark Reed
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal: cs/oc	Intact [x] / Not intact [ ]	Preserved where applicable [ ] / On Ice [x] / Cooler Temp. 4.9 DV. 115