

Exhibit JJ. Calhoun Technology Park - South Site Phase II Environmental Site Assessment



August 25, 2017

Calhoun Technology Park - South Site Phase II Environmental Site Assessment

Mr. Paul Fryer
Lazenby and Associates
2000 North 7th Street
West Monroe, Louisiana 71291

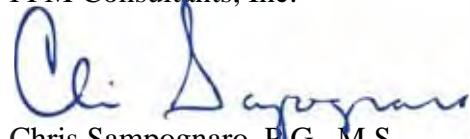
**Re: Phase II Environmental Site Assessment Report
Calhoun Technology Park – South Tract
321 US Highway 80 East
Calhoun, Louisiana
Ouachita Parish
PPM Project No. 11452006**

Dear Mr. Fryer:

Enclosed please find one bound copy and one CD of the Phase II Environmental Site Assessment (ESA) Report prepared by PPM Consultants, Inc. (PPM) for the above-referenced site.

Thank you for allowing PPM the opportunity to manage your environmental needs. If you have any questions or need additional information, please do not hesitate to contact me at (318) 323-7270.

Sincerely,
PPM Consultants, Inc.



Chris Sampognaro, P.G., M.S.
Senior Geologist

CHS/tw

Enclosures: Phase II Environmental Site Assessment Report

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

**LAZENBY AND ASSOCIATES
CALHOUN TECHNOLOGY PARK – SOUTH TRACT
321 US HIGHWAY 80 EAST
CALHOUN, LOUISIANA
OUACHITA PARISH**

PPM PROJECT NO. 11452006

AUGUST 2017

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

AT

**CALHOUN TECHNOLOGY PARK – SOUTH TRACT
321 US HIGHWAY 80 EAST
CALHOUN, LOUISIANA
OUACHITA PARISH**

PREPARED FOR:

**LAZENBY AND ASSOCIATES
ATTN: PAUL FRYER
2000 NORTH 7TH STREET
WEST MONROE, LOUISIANA 71291**

PPM PROJECT NO. 11452006

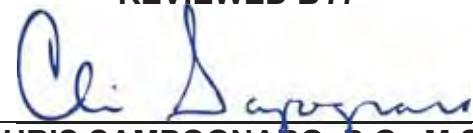
AUGUST 2017

PREPARED BY:



**CHASITY REED
SENIOR TOXICOLOGIST**

REVIEWED BY:



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

**PPM CONSULTANTS, INC.
1600 LAMY LANE
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EXECUTIVE SUMMARY

PPM Consultants, Inc. (PPM) was retained by Lazenby and Associates to conduct a Phase II Environmental Site Assessment (ESA) of the Calhoun Technology Park – South Tract property located at 321 US Highway 80 East in Calhoun, Louisiana. The purpose of this assessment was to determine if site soil and shallow groundwater have been adversely impacted by the historical use of the subject property or surrounding properties.

PPM conducted field activities at the site on July 26, 2017. Utilizing direct push technology (Geoprobe®), four probe borings, P-1 through P-4, were advanced to an approximate depth of 20 feet below ground surface (BGS). Temporary wells were installed in probe borings P-1 and P-2 to aid in the collection of groundwater samples. Groundwater levels in the temporary wells were approximately 13 feet BGS. Groundwater was not encountered in probe borings P-3 and P-4; therefore, temporary wells were not installed in these probe borings.

During the Phase II ESA, soil samples were analyzed for Resource Conservation and Recovery Act (RCRA) Metals per Method 6010B, Pesticides per Method 8081A, Herbicides per Method 8151A, Volatile Organic Compounds (VOCs) per Method 8260B, Semi-volatile Organic Compounds (SVOCs) per Method 8270C, and Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-G) and Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-D) per Method 8015B. Groundwater samples were collected from temporary wells PW-1 and PW-2 and analyzed for Pesticides per Method 8081A, Herbicides per Method 8151A, VOCs per Method 8260B, and SVOCs per Method 8270C, and TPH-G and TPH-D per Method 8015.

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

- Laboratory analysis of soil samples revealed all constituent concentrations below laboratory detection limits and/or Risk Evaluation/Corrective Action Program (RECAP) Screening Standards. RECAP Screening Standards have not been developed for select pesticides; however, the concentrations for these constituents are below laboratory detection limits. Therefore, PPM recommends eliminating these constituents from further evaluation in soil at the site.
- Laboratory analysis of groundwater samples revealed all constituent concentrations below laboratory detection limits. However, the laboratory detection limit for select constituents (pentachlorophenol, benzo(a)pyrene, hexachlorobenzene,

1,2,3,5-tetrachlorobenzene) exceeds the applicable RECAP Screening Standard. RECAP Screening Standards have not been developed for select pesticides; however, the concentrations for these constituents are below laboratory detection limits. Therefore, PPM recommends eliminating these constituents from further evaluation in groundwater at the site.

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

1.0 INTRODUCTION

PPM Consultants, Inc., (PPM) was retained by Lazenby and Associates to conduct a Phase II Environmental Site Assessment (ESA) of the Calhoun Technology Park – South Tract property located at 321 US Highway 80 East, Calhoun, Louisiana. The purpose of this assessment was to determine if site soil and shallow groundwater have been adversely impacted from historical use of the subject property or surrounding properties at levels which warrant environmental concern.

2.0 SCOPE OF WORK

Based upon information that has been provided by the client and findings from the Phase I ESA conducted by PPM, we have developed a scope of work for conducting the Phase II ESA, which consisted of the following:

- Call “One Call” to locate and mark underground utility lines three days prior to start of fieldwork.
- Preparation of a Health and Safety Plan (HASP).
- Advancement of four 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 a Photo-Ionization Detector (PID) and visual inspection of soil samples. 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.
- One soil sample from each of the probe borings will be selected for laboratory analysis of Resource Conservation and Recovery Act (RCRA) Metals per Method 6010B, Pesticides per Method 8081A, Herbicides per Method 8151A, Volatile Organic Compounds (VOCs) per Method 8260B, Semi-volatile Organic Compounds (SVOCs) per Method 8270C, and Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-G) and Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-D) per Method 8015.

- Installation of a temporary well in each probe boring to aid in the collection of one groundwater sample from the temporary wells.
- One groundwater sample from each of the probe borings will be selected for laboratory analysis of Pesticides per Method 8081A, Herbicides per Method 8151A, VOCs per Method 8260B, and SVOCs per Method 8270C, and TPH-G and TPH-D per Method 8015.
- PPM will use a laboratory that is accredited by the Louisiana Department of Environmental Quality's (LDEQ's) Environmental Laboratory Accreditation Program. The laboratory analytical report limits will meet the LDEQ Risk Evaluation/Corrective Action Program (RECAP) requirements. If the report limits are elevated, the data may be considered acceptable if the following conditions are met: (a) the analytical method used is capable of achieving a practical quantitation limit that is below the reference concentration(s); and/or (b) the analytical laboratory accredited by the State of Louisiana provides documentation that the practical quantitation limit was not achievable due to site- or sample-specific considerations such as matrix interferences.
- All soil borings and monitoring wells will be plugged and abandoned subsequent to completion of sampling activities the site. Well plugging and abandonment will be conducted in accordance with the *Construction of Geotechnical Boreholes and Groundwater Monitoring Systems Handbook* prepared by the LDEQ and the Louisiana Department of Transportation and Development (DOTD), in accordance with current Louisiana Department of Natural Resources (LDNR) regulations.
- 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.
- PPM will submit the Phase II ESA Report to the LDEQ requesting a letter of No Further Interest if appropriate.

3.0 BACKGROUND

3.1 SITE DESCRIPTION

The subject property is currently a portion of a larger vacant LSU Agricultural Research Facility. The property is irregular in shape and 87.5 acres in size, bordered to the north by Highway 80 East and to the south by Kansas City Southern railroad in a residential and

undeveloped area of Calhoun, Louisiana. Adjoining properties include the former LSU Agricultural Research Center to the north, undeveloped land to the east and southeast, residences to the southwest and west. The subject property includes a total of three structures, along with a former pump house, and metal water tank. Geographically, the site is located in Sections 26 and 27, Township 18 North, Range 1 East on the Calhoun, Louisiana Quadrangle at approximately Latitude 32° 30' 40" and Longitude 92° 20' 56". The site location is shown in **Figure 1, Site Location Map**, in **Appendix A, Figures**. Site features are shown in **Figure 2, Site Map**, in **Appendix A**.

4.0 SAMPLING METHODOLOGY

4.1 METHODOLOGY

PPM conducted field activities at the site on July 26, 2017. Utilizing direct push technology (Geoprobe®), four probe borings, P-1 through P-4, were advanced to an approximate depth of 20 feet BGS. Temporary wells were installed in probe borings P-1 and P-2 to aid in the collection of groundwater samples. Groundwater levels in the temporary wells were approximately 14 feet BGS. Groundwater was not encountered in probe borings P-3 and P-4; therefore, temporary wells were not installed in these probe borings. The probe boring locations are shown in **Figure 2, Appendix A**.

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 1.125-inch inside diameter (I.D.) Geoprobe® DT22 duel tube sample string. The DT22 duel tube sampling device consisted of a 51¼ - 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 PID 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.

In accordance with Environmental Protection Agency (EPA) Method 5035 for field preservation of soil samples, each sample containerized for laboratory analysis was placed into the 40 milliliter (mL) vial using a disposable plastic Terra-Core® sampling device. Each vial was tightly sealed with a Teflon lid. Additional soil was collected in 2-ounce and 4-ounce jars for laboratory analysis and laboratory Quality Assurance/Quality Control (QA/QC) purposes. Disposable nitrile gloves were worn during the collection of each soil sample and were changed between each sample acquisition. Sampling equipment was decontaminated between each use by thoroughly washing with a phosphate-free detergent (Alconox), followed by a rinse with isopropyl alcohol and then deionized water.

4.3 GROUNDWATER SAMPLING

Temporary wells were installed in probe borings P-1 and P-2 to aid in collection of groundwater. Groundwater levels in the temporary wells were approximately 13 feet BGS. Groundwater was not encountered in probe borings P-3 and P-4; therefore, temporary wells were not installed in these probe borings. 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°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 SGS Accutest Laboratories in Lafayette, 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 sand. Groundwater levels in the temporary wells were approximately 14 feet BGS. Temporary wells were installed in probe borings P-1 and P-2 to aid in collection of groundwater. Groundwater was not encountered in probe borings P-3 and P-4; therefore, temporary wells were not installed in these 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

Constituents detected in soil samples include arsenic, barium, chromium, and lead. These concentrations were below the LDEQ RECAP Screening Standards. All remaining constituent concentrations in soil were below laboratory detection limits and RECAP Screening Standards. RECAP Screening Standards have not been developed for select pesticides; however, the concentrations for these constituents are below laboratory detection limits. 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 Report**.

5.2.2 Groundwater Analytical Results

Laboratory analysis of groundwater samples revealed all constituent concentrations below laboratory detection limits. However, the laboratory detection limit for select constituents (pentachlorophenol, benzo(a)pyrene, hexachlorobenzene, 1,2,3,5-tetrachlorobenzene) exceeds the applicable RECAP Screening Standard. RECAP Screening Standards have not been developed for select pesticides; however, the concentrations for these constituents are

below laboratory detection limits. Laboratory analytical results for groundwater are summarized in **Table C-2, Groundwater Analytical Summary**, in **Appendix C**. Complete groundwater analytical results are presented in **Appendix D, Laboratory Analytical Report**.

6.0 CONCLUSIONS AND RECOMMENDATIONS

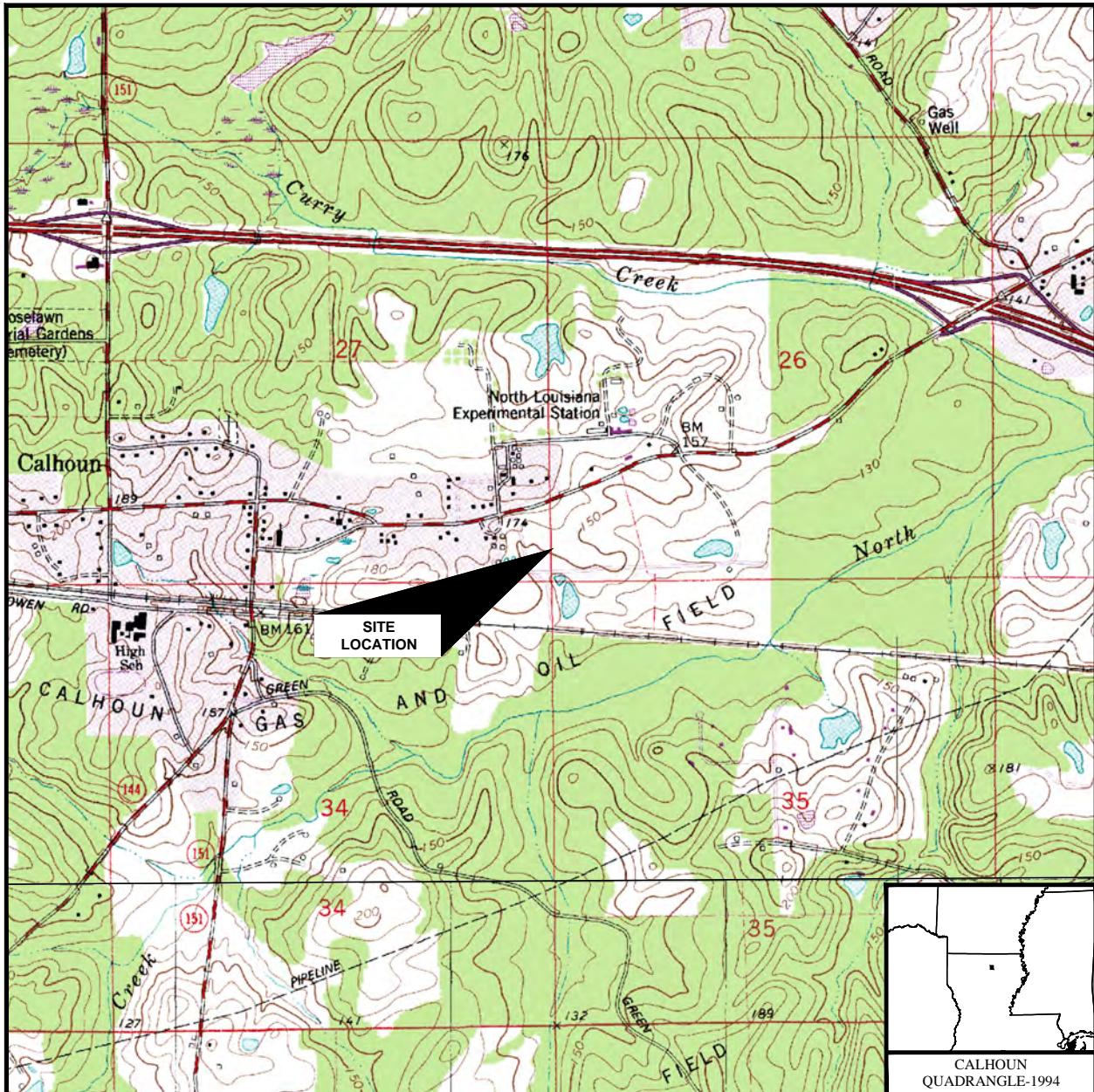
Based on the findings from the Phase II ESA, PPM concludes the following:

- Laboratory analysis of soil samples revealed all constituent concentrations below laboratory detection limits and/or RECAP Screening Standards. RECAP Screening Standards have not been developed for select pesticides; however, the concentrations for these constituents are below laboratory detection limits. Therefore, PPM recommends eliminating these constituents from further evaluation in soil at the site.
- Laboratory analysis of groundwater samples revealed all constituent concentrations below laboratory detection limits. However, the laboratory detection limit for select constituents (pentachlorophenol, benzo(a)pyrene, hexachlorobenzene, 1,2,3,5-tetrachlorobenzene) exceeds the applicable RECAP Screening Standard. RECAP Screening Standards have not been developed for select pesticides; however, the concentrations for these constituents are below laboratory detection limits. Therefore, PPM recommends eliminating these constituents from further evaluation in groundwater at the site.

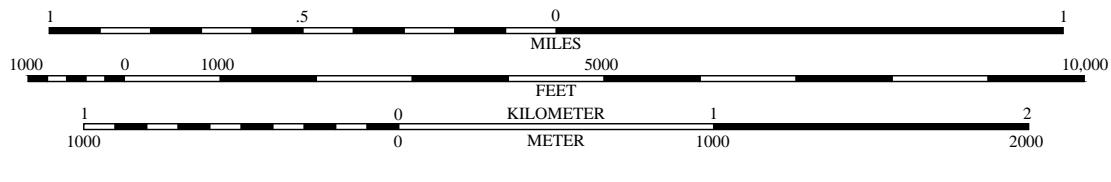
Based on the above conclusions, PPM recommends no further investigation at this site.

APPENDICES

APPENDIX A – FIGURES



SCALE: 1 : 24,000



PPM CONSULTANTS, INC.
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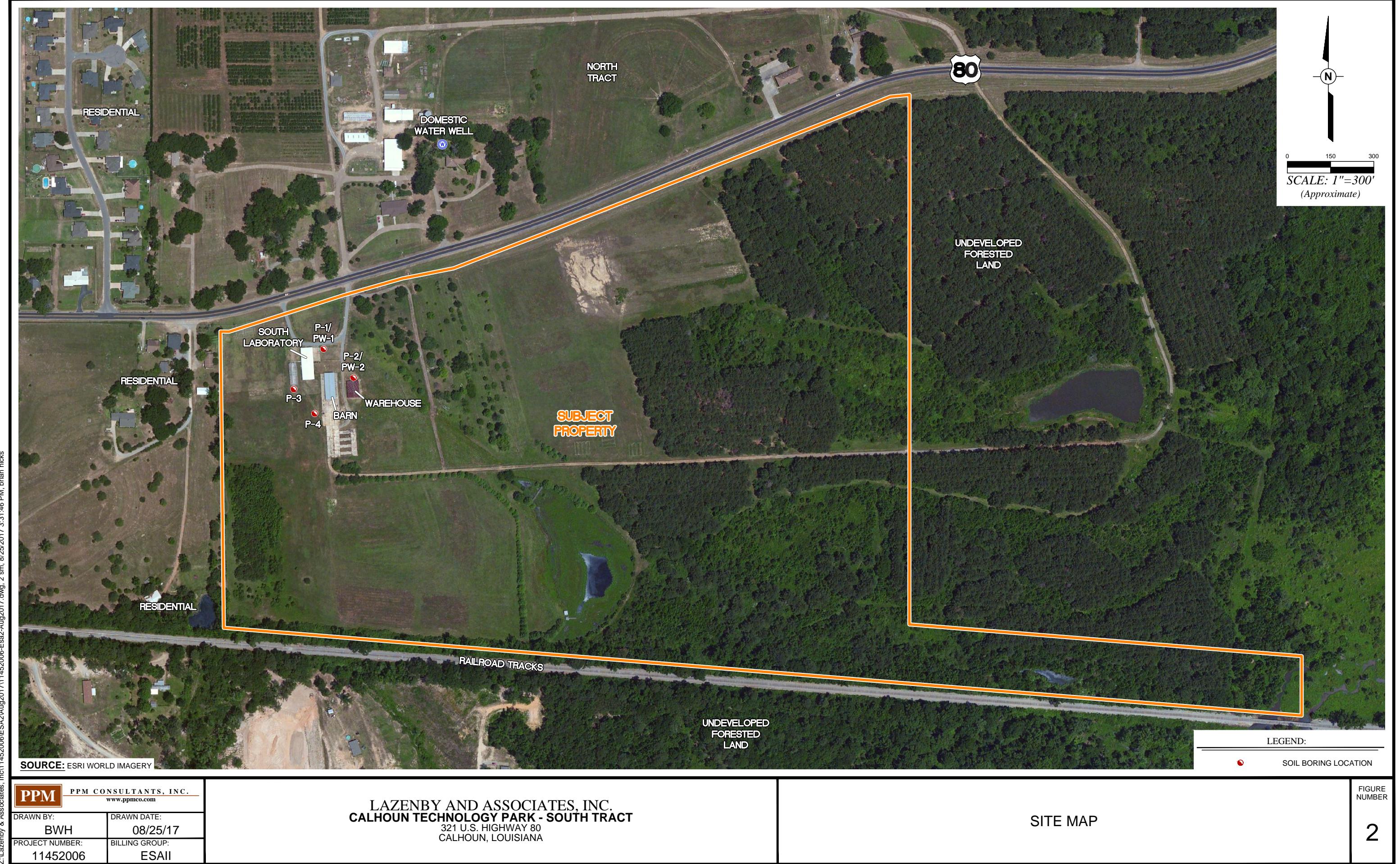
DRAWN BY: BWH	DRAWN DATE: 08/25/17
PROJECT NUMBER: 11452006	BILLING GROUP: ESAI

LAZENBY AND ASSOCIATES,
INC.
CALHOUN TECHNOLOGY PARK -
SOUTH TRACT
321 U.S. HIGHWAY 80
CALHOUN, LOUISIANA

SITE LOCATION MAP

FIGURE
NUMBER

1



APPENDIX B – GEOLOGIC BORING LOGS



LOG OF BORING:

CONSULTANTS

Client / Site Information:				Boring Information:				Well Information:					
Client:	Lazenby & Associates			Date / Time:	07-26-17/ 10:25			Well Type:	1" PVC Temporary				
Site:	Calhoun South Tract			Logged By:	Jon Roger			Well Purpose:	Monitoring				
Location:	Calhoun, Louisiana			Drilling Company / Driller:	WHE/ Devin Dunaway			Well Construction Date:	7-26-17				
Agency Interest No.:	NA			Drilling Method:	DPT			Total Well Depth:	20 ft BGS				
PPM Project No.:	11452006			Total Boring Depth:	20 ft BGS			Screened Interval:	9.5-19.5 ft BGS				
Project Type:	ESA2			Initial Saturation (ft)/Date:	14 ft BGS			Screen Slot Size:	0.010"				
				Static GW level (ft)/Date:	NA			Development Method:	Pump				
				Surface Elevation (ft):	NA			Gallons Purged:	<1				
				Sampling Interval:	2 ft Continuous								
Depth in Feet	Surf. Elev.	GRAPHIC		Water Levels				Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery	Depth in Feet	
				Water Level	USCS	▼ Static GW level	▽ Initial Saturation						
		DESCRIPTION											
0		ML	GRASS	SANDY SILT, low plasticity, soft, homogeneous, moist, light brown				1	NA	0	100	0	
5				SANDY SILT, low plasticity, soft, homogeneous, moist, reddish brown	2	NA	0	100	5	1" ID PVC Riser			
10		SM	SILTY SAND	fine, homogeneous, moist, reddish brown				3	NA	0	100	10	Flush Threaded Joint
15	▽			SILTY SAND, fine, homogeneous, wet, reddish brown	4	NA	0	100	15	1" ID Slotted PVC Screen			
20		MH	SILT	non-plastic, soft, homogeneous, wet, gray				5	NA	0*	100	20	Threaded Bottom Plug
				(Boring terminated @ 20.0 BGS)	6	NA	0	100					
				7	NA	0	100						
				8	NA	0	100						
				9	NA	0	100						
				10	NA	0*	100						

Well Schematic: PW-1

NOTES:

- Hand cleared to 4.0' BGS prior to drilling
 - * Sample submitted for laboratory analysis
 - Headspace conducted using Rae Systems Mini Rae 2000 calibrated with 100 ppm isobutylene span gas

- Soil descriptions generally based on visual inspection/professional judgment as described in ASTM D2488-09a: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). Laboratory testing not conducted, and the data should not be used for engineering purposes.

LOG OF BORING: P-2

Client / Site Information:				Boring Information:				Well Information:							
Client:	Lazenby & Associates			Date / Time:	07-26-17/ 12:00			Well Type:	1" PVC Temporary						
Site:	Calhoun South Tract			Logged By:	Jon Roger			Well Purpose:	Monitoring						
Location:	Calhoun, Louisiana			Drilling Company / Driller:	WHE/ Devin Dunaway			Well Construction Date:	07-26-17						
Agency Interest No.:	NA			Drilling Method:	DPT			Total Well Depth:	20 ft BGS						
PPM Project No.:	11452006			Total Boring Depth:	20 ft BGS			Screened Interval:	9.5-19.5 ft BGS						
Project Type:	ESA2			Initial Saturation (ft)/Date:	14 ft BGS			Screen Slot Size:	0.010"						
				Static GW level (ft)/Date:	NA			Development Method:	Pump						
				Surface Elevation (ft):	NA			Gallons Purged:	<1						
				Sampling Interval:	2 ft Continuous										
Depth in Feet	Surf. Elev.	Water Level	USCS	Water Levels ▼ Static GW level ▽ Initial Saturation				Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery				
			GRAPHIC	DESCRIPTION											
0				GRASS											
			SM	SILTY SAND, fine, homogeneous, moist, brown				1	NA	0	100				
			ML	SANDY SILT, low plasticity, soft, homogeneous, moist, brown				2	NA	0	100				
			SM	SILTY SAND, fine, homogeneous, moist, dark brown				3	NA	0	100				
			ML	SILTY SAND, fine, homogeneous, moist, light brown				4	NA	0	100				
			SM	SANDY SILT, low plasticity, soft, homogeneous, moist, light brown				5	NA	0*	100				
			ML	SILTY SAND, fine, homogeneous, wet, light brown				6	NA	0	100				
			SM	CLAYEY SILT, moderate plasticity, soft, moist, gray laminated with SAND, fine, wet, light brown				7	NA	0	100				
			ML					8	NA	0	100				
				(Boring terminated @ 20.0 BGS)				9	NA	0	100				
								10	NA	0*	100				
20															
<i>(Boring terminated @ 20.0 BGS)</i>															
Well Schematic: PW-2															

NOTES:

- Hand cleared to 4.0' BGS prior to drilling
- * Sample submitted for laboratory analysis
- Headspace conducted using Rae Systems Mini Rae 2000 calibrated with 100 ppm isobutylene span gas

- Soil descriptions generally based on visual inspection/professional judgment as described in ASTM D2488-09a: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). Laboratory testing not conducted, and the data should not be used for engineering purposes.

LOG OF BORING: P-3

Client / Site Information:				Boring Information:				Well Information:			
Client:	Lazenby & Associates			Date / Time:	07-26-17/ 12:55			Well Type:	NA		
Site:	Calhoun South Tract			Logged By:	Jon Roger			Well Purpose:	NA		
Location:	Calhoun, Louisiana			Drilling Company / Driller:	WHE/ Devin Dunaway			Well Construction Date:	NA		
Agency Interest No.:	NA			Drilling Method:	DPT			Total Well Depth:	NA		
PPM Project No.:	11452006			Total Boring Depth:	20 ft BGS			Screened Interval:	NA		
Project Type:	ESA2			Initial Saturation (ft)/Date:	NA			Screen Slot Size:	NA		
				Static GW level (ft)/Date:	NA			Development Method:	NA		
				Surface Elevation (ft):	NA			Gallons Purged:	NA		
				Sampling Interval:	2 ft Continuous						
Depth in Feet	Surf. Elev.	Water Level	USCS	Water Levels ▼ Static GW level ▽ Initial Saturation				Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery
			GRAPHIC	DESCRIPTION							Depth in Feet
0				GRASS				1	NA	0	100
			ML	SANDY SILT, non-plastic, soft, homogeneous, moist, brown				2	NA	0	100
			SM	SILTY SAND, fine, homogeneous, moist, brown				3	NA	0	100
			ML	SANDY SILT, low plasticity, soft, homogeneous, moist, brown				4	NA	0	100
			CL	SANDY CLAY, moderate plasticity, firm, homogeneous, moist, reddish brown				5	NA	0*	100
			CL	CLAYEY SILT, low plasticity, soft, homogeneous, moist, brown				6	NA	0	100
			ML					7	NA	0	100
			ML					8	NA	0	100
			ML					9	NA	0	100
			ML					10	NA	0*	100
20				(Boring terminated @ 20.0 BGS)							20

NOTES:

- Hand cleared to 4.0' BGS prior to drilling
- * Sample submitted for laboratory analysis
- Headspace conducted using Rae Systems Mini Rae 2000 calibrated with 100 ppm isobutylene span gas

- Soil descriptions generally based on visual inspection/professional judgment as described in ASTM D2488-09a: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). Laboratory testing not conducted, and the data should not be used for engineering purposes.

LOG OF BORING: P-4

Client / Site Information:				Boring Information:				Well Information:			
Client:	Lazenby & Associates	Date / Time:	07-26-17/ 14:15	Well Type:	NA						
Site:	Calhoun South Tract	Logged By:	Jon Roger	Well Purpose:	NA						
Location:	Calhoun, Louisiana	Drilling Company / Driller:	WHE/ Devin Dunaway	Well Construction Date:	NA						
Agency Interest No.:	NA	Drilling Method:	DPT	Total Well Depth:	NA						
PPM Project No.:	11452006	Total Boring Depth:	20 ft BGS	Screened Interval:	NA						
Project Type:	ESA2	Initial Saturation (ft)/Date:	NA	Screen Slot Size:	NA						
		Static GW level (ft)/Date:	NA	Development Method:	NA						
		Surface Elevation (ft):	NA	Gallons Purged:	NA						
		Sampling Interval:	2 ft Continuous								
Depth in Feet	Surf. Elev.	Water Level	USCS	GRAPHIC	Water Levels				Sample	Blow Count	Headspace Concentration (ppmv)
					▼ Static GW level						Percent Recovery
					▽ Initial Saturation						
					DESCRIPTION				Depth in Feet		
0					GRASS				0		
					SILTY SAND, fine, homogeneous, dry, light brown				1	NA	0 100
					SILTY SAND, fine, homogeneous, moist, brown				2	NA	0 100
					SM				3	NA	0 100
					SILTY SAND, fine, homogeneous, moist, brown				4	NA	0 100
					SILTY SAND, fine, homogeneous, moist, brown				5	NA	0* 100
					ML				6	NA	0 100
					SANDY SILT, low plasticity, firm, homogeneous, moist, light gray				7	NA	0 100
					CL				8	NA	0 100
					SANDY CLAY, moderate plasticity, firm, homogeneous, moist, light gray				9	NA	0 100
					ML				10	NA	0* 100
					SANDY SILT, non-plastic, soft, homogeneous, moist, brown						
10					(Boring terminated @ 20.0 BGS)						
15											
20											

NOTES:

- Hand cleared to 4.0' BGS prior to drilling
- * Sample submitted for laboratory analysis
- Headspace conducted using Rae Systems Mini Rae 2000 calibrated with 100 ppm isobutylene span gas

- Soil descriptions generally based on visual inspection/professional judgment as described in ASTM D2488-09a: Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). Laboratory testing not conducted, and the data should not be used for engineering purposes.

APPENDIX C – TABLES

TABLE C-1A
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 MTBE (methyl tert-butyl ether)	Code TPH-G	Code TPH-D	Code Acetone	Code Bromo di-chloro methane	Code Bromoform	Code Carbon Disulfide
P-1	P-1/S-8	13	15	07/26/2017	0	< 0.0005	< 0.005	< 0.001	< 0.002	< 0.001	< 4.8	< 5	< 0.05	< 0.001	< 0.001	< 0.001
P-2	P-2/S-8	13	15	07/26/2017	0	< 0.00051	< 0.0051	< 0.001	< 0.002	< 0.001	< 4.2	< 5	< 0.051	< 0.001	< 0.001	< 0.001
P-3	P-3/S-10	17	19	07/26/2017	0	< 0.00048	< 0.0048	< 0.00096	< 0.0019	< 0.00096	< 4.9	< 5	< 0.048	< 0.00096	< 0.00096	< 0.00096
P-4	P-4/S-10	17	19	07/26/2017	0	< 0.00049	< 0.0049	< 0.00098	< 0.002	< 0.00098	< 5	< 5	< 0.049	< 0.00098	< 0.00098	< 0.00098
Minimum Concentration				< 0.00048	< 0.0048	< 0.00096	< 0.0019	< 0.00096	< 0.00096	< 4.2	< 5	< 0.048	< 0.00096	< 0.00096	< 0.00096	
Maximum Concentration				< 0.00051	< 0.0051	< 0.001	< 0.002	< 0.001	< 0.001	< 5	< 5	< 0.051	< 0.001	< 0.001	< 0.001	
Screening Standards				0.051	20	19	121	0.077	65	65	1.5	0.92	1.8	11		

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Carbon Tetrachloride	Code	Chlorobenzene	Code	Chloroethane (Ethylchloride)	Code	Chloroform	Code	Chloro dibromo methane (Dibromo-chloromethane)	Code	Dibromo-3-chloropropane, 1,2-	Code	Dichloro-benzene,1,3- (m)	Code	Dichloro-benzene,1,2- (o)	Code	Dichloro-benzene,1,4- (p)				
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.005	<	0.001	<	0.001	<	0.001				
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.0051	<	0.001	<	0.001	<	0.001				
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.0048	<	0.00096	<	0.00096	<	0.00096				
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.0049	<	0.00098	<	0.00098	<	0.00098				
Minimum Concentration						<	0.00096		<	0.00096		<	0.00096		<	0.00096		<	0.0048		<	0.00096		<	0.00096			
Maximum Concentration						<	0.001		<	0.001		<	0.001		<	0.001		<	0.0051		<	0.001		<	0.001			
Screening Standards							0.11			3			0.035			0.3			1			0.01			2.1			5.7

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Dichloroethane,1,1-	Code	Dichloroethane,1,2-	Code	Dichloroethene,1,1-	Code	Dichloroethene,cis,1,2-	Code	Dichloroethene,trans,1,2-	Code	Dichloropropane,1,2-	Code	Dichloropropene,1,3-	Code	Hexachloroethane	Code	Isobutyl alcohol	Code	Bromo-methane (Methyl Bromide)
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.005	< 0.1	< 0.01		
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.0051	< 0.1	< 0.01		
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.00096		< 0.00096		< 0.00096		< 0.00096		< 0.00096		< 0.00096		< 0.00096		< 0.0048	< 0.096	< 0.0096		
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.00098		< 0.00098		< 0.00098		< 0.00098		< 0.00098		< 0.00098		< 0.00098		< 0.0049	< 0.098	< 0.0098		
					Minimum Concentration		<	0.00096		< 0.00096		< 0.00096		< 0.00096		< 0.00096		< 0.00096		< 0.00096		< 0.0048	< 0.096	< 0.0096		
					Maximum Concentration		<	0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.001		< 0.0051	< 0.1	< 0.01		
					Screening Standards			7.5		0.035		0.085		0.49		0.77		0.042		0.04		2.2		30		0.04

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Chloro-methane (Methyl Chloride)	Code	Methylene chloride	Code	Methyl ethyl ketone	Code	Methyl isobutyl ketone	Code	Styrene	Code	Tetrachloro-ethane,1,1,1,2-	Code	Tetrachloro-ethane,1,1,2,2-	Code	Tetrachloro-ethylene	Code	Trichloro-ethane,1,1,1-	Code	Trichloro-ethane,1,1,2-
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.005	<	0.005	<	0.013	<	0.013	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.0051	<	0.0051	<	0.013	<	0.013	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.0048	<	0.0048	<	0.012	<	0.012	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.0049	<	0.0049	<	0.012	<	0.012	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098
Minimum Concentration					<	0.0048	<	0.0048	<	0.012	<	0.012	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096
Maximum Concentration					<	0.0051	<	0.0051	<	0.013	<	0.013	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001
Screening Standards						0.1		0.017		5		6.4		11		0.046		0.006		0.18		4		0.058		

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Trichloroethene	Code	Trichlorofluoromethane	Code	Vinyl chloride	Code	Chloro phenol,2-	Code	Dichloro phenol,2,4-	Code	Dimethyl phenol,2,4-	Code	Dinitro phenol,2,4-	Code	Nitrophenol,4-	Code	Pentachloro phenol	Code	Phenol	Code	Tetrachlorophenol, 2,3,4,6-
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.001	<	0.001	<	0.001	<	0.17	<	0.17	<	0.17	<	0.66	<	0.66	<	0.17	<	0.17	<	0.17
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.001	<	0.001	<	0.001	<	0.17	<	0.17	<	0.17	<	0.66	<	0.66	<	0.17	<	0.17	<	0.17
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.00096	<	0.00096	<	0.00096	<	0.17	<	0.17	<	0.17	<	0.65	<	0.65	<	0.17	<	0.17	<	0.17
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.00098	<	0.00098	<	0.00098	<	0.17	<	0.17	<	0.17	<	0.64	<	0.64	<	0.17	<	0.17	<	0.17
					Minimum Concentration		<	0.00096	<	0.00096	<	0.00096	<	0.17	<	0.17	<	0.17	<	0.64	<	0.64	<	0.17	<	0.17	<	0.17
					Maximum Concentration		<	0.001	<	0.001	<	0.001	<	0.17	<	0.17	<	0.17	<	0.66	<	0.66	<	0.17	<	0.17	<	0.17
					Screening Standards			0.073		37		0.013		1.4		12		20		1.7		2.6		1.7		11		31

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Trichloro phenol, 2,4,5-	Code	Trichloro phenol, 2,4,6-	Code	Acenaphthene	Code	Acenaphthylene	Code	Aniline	Code	Anthracene	Code	Benz(a)-anthracene	Code	Benzo(a)-pyrene	Code	Benzo(b)-fluoranthene	Code	Biphenyl,1,1-	
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.17	<	0.17	<	0.01	<	0.01	<	0.05	<	0.01	<	0.01	<	0.01	<	0.01	<	0.17	
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.17	<	0.17	<	0.01	<	0.01	<	0.05	<	0.01	<	0.01	<	0.01	<	0.01	<	0.17	
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.17	<	0.17	<	0.0099	<	0.0099	<	0.05	<	0.0099	<	0.0099	<	0.0099	<	0.0099	<	0.17	
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.17	<	0.17	<	0.0098	<	0.0098	<	0.049	<	0.0098	<	0.0098	<	0.0098	<	0.0098	<	0.17	
				Minimum Concentration				<	0.17	<	0.17	<	0.0098	<	0.0098	<	0.049	<	0.0098	<	0.0098	<	0.0098	<	0.0098	<	0.17
				Maximum Concentration				<	0.17	<	0.17	<	0.01	<	0.01	<	0.05	<	0.01	<	0.01	<	0.01	<	0.01	<	0.17
				Screening Standards				320		1.3		215		88		0.065		121		2.9		0.33		2.9		190	

Notes

Bold RED type indicates concentration exceeds the RECAP SS.

Bold RED type indicates concentration exceeds the RECAL-CC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Benzo(k)-fluoranthene	Code	Butyl benzyl phthalate	Code	Chloro aniline,p-	Code	Bis(2-chloroethyl) ether	Code	Bis(2-chloroisopropyl)ether	Code	Chloro naphthalene,2-	Code	Chrysene	Code	Dibenz(a,h)-anthracene	Code	Dibenzo-furan	Code	Dichlorobenzidine, 3,3-	
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.01	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.01	<	0.01	<	0.17	<	0.17	
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.01	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.01	<	0.01	<	0.17	<	0.17	
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.0099	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.0099	<	0.0099	<	0.17	<	0.17	
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.0098	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.0098	<	0.0098	<	0.17	<	0.17	
				Minimum Concentration		<	0.0098	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.0098	<	0.0098	<	0.17	<	0.17
				Maximum Concentration		<	0.01	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.01	<	0.01	<	0.17	<	0.17
				Screening Standards			29		220		1.5		0.33		0.8		500		76		0.33		24		1.8		

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Diethyl phthalate	Code	Dimethyl phthalate	Code	Di-n-octyl phthalate	Code	Dinitro benzene,1,3-	Code	Dinitro toluene,2,4-	Code	Dinitro toluene,2,6-	Code	Bis(2-ethyl-hexyl) phthalate	Code	Fluoranthene	Code	Fluorene	Code	Hexachloro benzene	
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.01	<	0.01	<	0.17	
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.01	<	0.01	<	0.17	
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.0099	<	0.0099	<	0.17	
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.17	<	0.0098	<	0.0098	<	0.17	
							Minimum Concentration							< 0.17							< 0.17						
							Maximum Concentration							< 0.17							< 0.17						
							Screening Standards							360							1500						
														3500							0.25						
														1							0.39						
														79							1213						
														226							2						

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Hexachloro butadiene	Code	Hexachloro cyclo pentadiene	Code	Indeno(1,2,3-cd)- pyrene	Code	Isophorone	Code	Methyl naphthalene,2-	Code	Naphthalene	Code	Nitroaniline,2-	Code	Nitroaniline,3-	Code	Nitroaniline,4-	
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.17	<	0.66	<	0.01	<	0.17	<	0.01	<	0.01	<	0.66	<	0.66	<	0.66	
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.17	<	0.66	<	0.01	<	0.17	<	0.01	<	0.01	<	0.66	<	0.66	<	0.66	
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.17	<	0.65	<	0.0099	<	0.17	<	0.0099	<	0.0099	<	0.65	<	0.65	<	0.65	
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.17	<	0.64	<	0.0098	<	0.17	<	0.0098	<	0.0098	<	0.64	<	0.64	<	0.64	
				Minimum Concentration		<	0.17	<	0.64	<	0.0098	<	0.17	<	0.0098	<	0.0098	<	0.64	<	0.64	<	0.64	<	0.64
				Maximum Concentration		<	0.17	<	0.66	<	0.01	<	0.17	<	0.01	<	0.01	<	0.66	<	0.66	<	0.66	<	0.66
				Screening Standards			5.5		9.4		2.9		0.56		1.7		1.5		1.7		1.7		1.7		1.7

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1A
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Nitro benzene	Code	Nitrosodi-n-propylamine,N-	Code	N-nitrosodi phenylamine	Code	Phenanthrene	Code	Pyrene	Code	Tetrachloro benzene, 1,2,4,5-	Code	Trichloro benzene, 1,2,4-
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.17	<	0.17	<	0.17	<	0.01	<	0.01	<	0.17	<	0.17
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.17	<	0.17	<	0.17	<	0.01	<	0.01	<	0.17	<	0.17
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.17	<	0.17	<	0.17	<	0.0099	<	0.0099	<	0.17	<	0.17
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.17	<	0.17	<	0.17	<	0.0098	<	0.0098	<	0.17	<	0.17

TABLE C-1B
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Dinoseb	Code	Aldrin	Code	Hexa-chlorocyclohexane,alpha	Code	Hexa-chlorocyclohexane,beta	Code	Hexa-chlorocyclohexane,gamma	Code	Chlordane	Code	Dieldrin	Code	DDD	Code	DDE	Code	DDT
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.016	<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.033	<	0.00067	<	0.00067	<	0.00067	<	0.00067
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.016	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.033	<	0.00066	<	0.00066	<	0.00066	<	0.00066
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.016	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.033	<	0.00066	<	0.00066	<	0.00066	<	0.00066
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.016	<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.029	<	0.00059	<	0.00059	<	0.00059	<	0.00059
				Minimum Concentration		< 0.016	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.029	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	< 0.00059	
				Maximum Concentration		< 0.016	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.033	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	< 0.00067	
				Screening Standards		0.14	0.13	0.006	0.016	0.033	10	0.15	1.5	2	12											

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1B
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Endrin	Code	Endosulfan sulfate	Code	Endrin aldehyde	Code	Endosulfan-I	Code	Endosulfan-II	Code	Heptachlor	Code	Heptachlor epoxide	Code	Methoxychlor	Code	Toxaphene	Code	Arsenic	
P-1	P-1/S-8	13	15	07/26/2017		0	<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.0013	<	0.017	<	5	
P-2	P-2/S-8	13	15	07/26/2017		0	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.0013	<	0.016	<	5	
P-3	P-3/S-10	17	19	07/26/2017		0	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.00066	<	0.0013	<	0.016	<	6.4	
P-4	P-4/S-10	17	19	07/26/2017		0	<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.0012	<	0.015	<	4.6	
				Minimum Concentration				<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.00059	<	0.0012	<	0.015	<	4.6
				Maximum Concentration				<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.00067	<	0.0013	<	0.017	<	6.4
				Screening Standards				2.6	-	-	-	-	-	-	-	0.035	-	0.26	-	380	-	2.2	-	12			

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-1B
SOIL ANALYTICAL SUMMARY

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Barium	Code	Cadmium	Code	Chromium(VI)	Code	Lead	Code	Mercury (inorganic)	Code	Selenium	Code	Silver	
P-1	P-1/S-8	13	15	07/26/2017		0		13.1	<	2.5		6.7	<	5	<	0.069	<	5	<	5	
P-2	P-2/S-8	13	15	07/26/2017		0		11.5	<	2.5		9.3		7.1	<	0.08	<	5	<	5	
P-3	P-3/S-10	17	19	07/26/2017		0		25.7	<	2.5	<	5		9.2	<	0.08	<	5	<	5	
P-4	P-4/S-10	17	19	07/26/2017		0		12.1	<	2.3	<	4.6	<	4.6	<	0.077	<	4.6	<	4.6	
						Minimum Concentration		11.5		<	2.3	<	4.6	<	4.6	<	0.069	<	4.6	<	4.6
						Maximum Concentration		25.7		<	2.5		9.3		9.2	<	0.08	<	5	<	5
						Screening Standards		2000			20		100		100		4		20		100

Notes:

Bold RED type indicates concentration exceeds the RECAP SS.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Benzene	Code	Toluene	Code	Ethyl-Benzene	Code	Xylenes	Code	MTBE	Code	TPH-G	Code	TPH-D	Code	Acetone	Code	Bromodichloro methane	Code	Bromoform	Code	Carbon Disulfide	Code	Carbon Tetrachloride
PW-1	07/26/2017	<	0.001	<	0.001	<	0.001	<	0.002	<	0.001	<	0.1	<	0.14	<	0.05	<	0.001	<	0.001	<	0.001	<	0.001
PW-2	07/26/2017	<	0.001	<	0.001	<	0.001	<	0.002	<	0.001	<	0.1	<	0.14	<	0.05	<	0.001	<	0.001	<	0.001	<	0.001
Minimum Concentrations		<	0.001	<	0.001	<	0.001	<	0.002	<	0.001	<	0.1	<	0.14	<	0.05	<	0.001	<	0.001	<	0.001	<	0.001
Maximum Concentrations		<	0.001	<	0.001	<	0.001	<	0.002	<	0.001	<	0.1	<	0.14	<	0.05	<	0.001	<	0.001	<	0.001	<	0.001
Screening Standards		0.005	1	0.7	10	0.02	0.15	0.15	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.005	

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Chlorobenzene	Code	Chloroethane (Ethylchloride)	Code	Chloroform	Code	Chlorodibromo methane (Dibromo-chloromethane)	Code	Dichloro-benzene,1,3- (m)	Code	Dichloro-benzene,1,2- (o)	Code	Dichloro-benzene,1,4- (p)	Code	Dichloro-ethane,1,1-	Code	Dichloro-ethane,1,2-	Code	Dichloroethene, 1,1-
PW-1	07/26/2017	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001
PW-2	07/26/2017	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001
Minimum Concentrations		<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001
Maximum Concentrations		<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001
Screening Standards			0.1		0.01		0.1		0.1		0.01		0.6		0.075		0.081		0.005		0.007

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Dichloro-ethene,cis,1,2-	Dichloroethene, trans,1,2-	Dichloropropane,1,2-	Dichloropropene,1,3-	Hexachloro-ethane	Isobutyl alcohol	Bromomethane (Methyl Bromide)	Chloromethane (Methyl Chloride)	Methylene chloride	Methyl ethyl ketone	Methyl isobutyl ketone
PW-1	07/26/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.1	< 0.001	< 0.001	< 0.001	< 0.013	< 0.013
PW-2	07/26/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.1	< 0.001	< 0.001	< 0.001	< 0.013	< 0.013
Minimum Concentrations		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.1	< 0.001	< 0.001	< 0.001	< 0.013	< 0.013
Maximum Concentrations		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.1	< 0.001	< 0.001	< 0.001	< 0.013	< 0.013
Screening Standards		0.07	0.1	0.005	0.005	0.01	1.1	0.01	0.01	0.005	0.19	0.2

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Styrene	Code	Tetrachloroethane,1,1,1,2-	Code	Tetrachloroethane,1,1,2,2-	Code	Tetrachloroethylene	Code	Trichloroethane,1,1,1-	Code	Trichloroethane,1,1,2-	Code	Trichloroethene	Code	Trichlorofluoromethane	Code	Vinyl chloride	Code	Chlorophenol,2-	Code	Dichlorophenol, 2,4-
PW-1	07/26/2017	<	0.001	<	0.001	<	0.0005	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.0054	<	0.0054
PW-2	07/26/2017	<	0.001	<	0.001	<	0.0005	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.0053	<	0.0053
Minimum Concentrations		<	0.001	<	0.001	<	0.0005	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.0053	<	0.0053
Maximum Concentrations		<	0.001	<	0.001	<	0.0005	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.001	<	0.0054	<	0.0054
Screening Standards			0.1		0.005		0.001		0.005		0.2		0.005		0.005		0.13		0.002		0.01		0.011

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Dimethylphenol, 2,4-	Code	Dinitrophenol, 2,4-	Code	Nitrophenol, 4-	Code	Pentachloro phenol	Code	Phenol	Code	Tetrachlorophenol, 2,3,4,6-	Code	Trichlorophenol, 2,4,5-	Code	Trichlorophenol, 2,4,6-	Code	Acenaphthene	Code	Acenaphthylene	Code	Aniline
PW-1	07/26/2017	<	0.0054	<	0.022	<	0.027	<	0.0011	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0022	<	0.0022	<	0.0054
PW-2	07/26/2017	<	0.0053	<	0.021	<	0.026	<	0.0011	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.00021	<	0.00021	<	0.0053
Minimum Concentrations		<	0.0053	<	0.021	<	0.026	<	0.0011	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.00021	<	0.00021	<	0.0053
Maximum Concentrations		<	0.0054	<	0.022	<	0.027	<	0.0011	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.00022	<	0.00022	<	0.0054
Screening Standards			0.073		0.05		0.05		0.001		0.18		0.11		0.37		0.01		0.037		0.1		0.012

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Anthracene	Code	Benz(a)-anthracene	Code	Benzo(a)-pyrene	Code	Benzo(b)-fluoranthene	Code	Benzo(k)-fluoranthene	Code	Biphenyl,1,1-	Code	Butyl benzyl phthalate	Code	Chloroaniline,p-	Code	Bis(2-chloroethyl)ether	Code	Bis(2-chloroisopropyl)ether	Code	Chloronaphthalene,2-
PW-1	07/26/2017	<	0.00022	<	0.00022	<	0.00022	<	0.00022	<	0.00022	<	0.011	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0054
PW-2	07/26/2017	<	0.00021	<	0.00021	<	0.00021	<	0.00021	<	0.00021	<	0.011	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.0053
Minimum Concentrations		<	0.00021	<	0.00021	<	0.00021	<	0.00021	<	0.00021	<	0.011	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.0053
Maximum Concentrations		<	0.00022	<	0.00022	<	0.00022	<	0.00022	<	0.00022	<	0.011	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0054
Screening Standards			0.043		0.0078		0.0002		0.0048		0.0025		0.03		0.73		0.02		0.006		0.006		0.049

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Chrysene	Code	Dibenz(a,h)-anthracene	Code	Dibenzofuran	Code	Dichloro benzidine, 3,3-	Code	Diethylphthalate	Code	Dimethyl phthalate	Code	Di-n-octyl phthalate	Code	Dinitrobenzene, 1,3-	Code	Dinitrotoluene, 2,4-	Code	Dinitrotoluene, 2,6-	Code	Bis(2-ethyl-hexyl) phthalate
PW-1	07/26/2017	<	0.00022	<	0.00022	<	0.0054	<	0.011	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0054
PW-2	07/26/2017	<	0.00021	<	0.00021	<	0.0053	<	0.011	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.0053
Minimum Concentrations		<	0.00021	<	0.00021	<	0.0053	<	0.011	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.0053	<	0.0053
Maximum Concentrations		<	0.00022	<	0.00022	<	0.0054	<	0.011	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0054	<	0.0054
Screening Standards			0.0016		0.0025		0.01		0.02		2.9		37		0.02		0.01		0.01		0.01		0.006

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Fluoranthene	Code	Fluorene	Code	Hexachloro benzene	Code	Hexachloro butadiene	Code	Hexachloro cyclopentadiene	Code	Indeno(1,2,3-cd)- pyrene	Code	Isophorone	Code	Methyl-naphthalene,2-	Code	Naphthalene	Code	Nitroaniline,2-
PW-1	07/26/2017	<	0.00022	<	0.00022	<	0.0011	<	0.00054	<	0.011	<	0.00022	<	0.0054	<	0.00022	<	0.00022	<	0.0054
PW-2	07/26/2017	<	0.00021	<	0.00021	<	0.0011	<	0.00053	<	0.011	<	0.00021	<	0.0053	<	0.00021	<	0.00021	<	0.0053
Minimum Concentrations		<	0.00021	<	0.00021	<	0.0011	<	0.00053	<	0.011	<	0.00021	<	0.0053	<	0.00021	<	0.00021	<	0.0053
Maximum Concentrations		<	0.00022	<	0.00022	<	0.0011	<	0.00054	<	0.011	<	0.00022	<	0.0054	<	0.00022	<	0.00022	<	0.0054
Screening Standards			0.15		0.024		0.001		0.001		0.05		0.0037		0.07		0.00062		0.01		0.05

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2A
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Nitroaniline,3-	Code	Nitroaniline,4-	Code	Nitrobenzene	Code	Nitrosodi-n-propylamine,n-	Code	N-nitrosodi phenylamine	Code	Phenanthrene	Code	Pyrene	Code	Tetrachloro benzene,1,2,4,5-	Code	Trichloro benzene,1,2,4-	Code	Dibromo-3-chloropropane, 1,2-
PW-1	07/26/2017	<	0.0054	<	0.0054	<	0.0011	<	0.0054	<	0.0054	<	0.00022	<	0.00022	<	0.0011	<	0.0054	<	0.00002
PW-2	07/26/2017	<	0.0053	<	0.0053	<	0.0011	<	0.0053	<	0.0053	<	0.00021	<	0.00021	<	0.0011	<	0.0053	<	0.00002
Minimum Concentrations		<	0.0053	<	0.0053	<	0.0011	<	0.0053	<	0.0053	<	0.00021	<	0.00021	<	0.0011	<	0.0053	<	0.00002
Maximum Concentrations		<	0.0054	<	0.0054	<	0.0011	<	0.0054	<	0.0054	<	0.00022	<	0.00022	<	0.0011	<	0.0054	<	0.00002
Screening Standards			0.05		0.05		0.002		0.01		0.014		0.18		0.018		0.001		0.07		0.0002

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2B
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Dinoseb	Code	Aldrin	Code	Hexachloro-cyclohexane, alpha	Code	Hexachloro-cyclohexane, beta	Code	Hexachloro-cyclohexane, gamma	Code	Chlordane	Code	Dieldrin	Code	DDD	Code	DDE	Code	DDT	Code	Endrin
PW-1	07/26/2017	<	0.00054	<	0.000011	<	0.000011	<	0.000011	<	0.000011	<	0.00055	<	0.000011								
PW-2	07/26/2017	<	0.00054	<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.00052	<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.00001
Minimum Concentrations		<	0.00054	<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.00052	<	0.00001								
Maximum Concentrations		<	0.00054	<	0.000011	<	0.000011	<	0.000011	<	0.000011	<	0.00055	<	0.000011								
Screening Standards			0.007		0.0019		0.00003		0.00006		0.0002		0.002		0.0025		0.00028		0.0002		0.0003		0.002

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

TABLE C-2B
GROUNDWATER ANALYTICAL SUMMARY

Monitoring Well ID	Sample Date	Code	Endosulfan sulfate	Code	Endrin aldehyde	Code	Endosulfan I	Code	Endosulfan II	Code	Heptachlor	Code	Heptachlor epoxide	Code	Methoxychlor	Code	Toxaphene
PW-1	07/26/2017	<	0.000011	<	0.000011	<	0.000011	<	0.000011	<	0.000011	<	0.000011	<	0.000022	<	0.00027
PW-2	07/26/2017	<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.000021	<	0.00026
Minimum Concentrations		<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.00001	<	0.000021	<	0.00026
Maximum Concentrations		<	0.000011	<	0.000011	<	0.000011	<	0.000011	<	0.000011	<	0.000011	<	0.000022	<	0.00027
Screening Standards		-	-	-	-	-	-	-	-	0.0004	0.0002	-	0.04	-	0.003	-	-

Notes:

Bold RED type indicates concentration exceeds the RECAP Screening Standards.

Bold BLUE type indicates highest concentration for each COC.

NA - Not Analyzed for Parameter

All concentrations are in parts per million (ppm)

APPENDIX D – LABORATORY ANALYTICAL REPORT



ACCUTEST

Lafayette

08/07/17

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Automated Report

Technical Report for

PPM Consultants

Lazenby & Associates/South Tract-Calhoun, LA

11452006

SGS Accutest Job Number: LA35798

Sampling Date: 07/26/17



Report to:

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Total number of pages in report: 127



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Program
and/or state specific certification programs as applicable.

Ron Benjamin
Lab Director

Client Service contact: Amy Jackson 337-237-4775

Certifications: LDEQ(2048), LDHH(LA150012), AR(14-045-04), AZ(AZ0805), FL(E87657), IL(200082), KY(#31),
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Sample Summary

PPM Consultants

Job No: LA35798

Lazenby & Associates/South Tract-Calhoun, LA
Project No: 11452006

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
LA35798-1	07/26/17	10:50 JR	07/28/17	SO	Soil	P-1/S-8
LA35798-2	07/26/17	12:25 JR	07/28/17	SO	Soil	P-2/S-8
LA35798-3	07/26/17	13:20 JR	07/28/17	SO	Soil	P-3/S-10
LA35798-4	07/26/17	14:45 JR	07/28/17	SO	Soil	P-4/S-10
LA35798-5	07/26/17	15:20 JR	07/28/17	AQ	Ground Water	PW-1
LA35798-6	07/26/17	15:45 JR	07/28/17	AQ	Ground Water	PW-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: LA35798
Account: PPM Consultants
Project: Lazenby & Associates/South Tract-Calhoun, LA
Collected: 07/26/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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LA35798-1 P-1/S-8

Barium	13.1	5.0	mg/kg	SW846 6010C
Chromium	6.7	5.0	mg/kg	SW846 6010C

LA35798-2 P-2/S-8

Barium	11.5	5.0	mg/kg	SW846 6010C
Chromium	9.3	5.0	mg/kg	SW846 6010C
Lead	7.1	5.0	mg/kg	SW846 6010C

LA35798-3 P-3/S-10

Arsenic	6.4	5.0	mg/kg	SW846 6010C
Barium	25.7	5.0	mg/kg	SW846 6010C
Lead	9.2	5.0	mg/kg	SW846 6010C

LA35798-4 P-4/S-10

Barium	12.1	4.6	mg/kg	SW846 6010C
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LA35798-5 PW-1

No hits reported in this sample.

LA35798-6 PW-2

No hits reported in this sample.

Sample Results

Report of Analysis

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038140.D	1	08/02/17 17:57	PJ	07/29/17 12:40	n/a	V1H1321
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.050	mg/kg	
71-43-2	Benzene	ND	0.00050	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0010	mg/kg	
75-25-2	Bromoform	ND	0.0010	mg/kg	
75-15-0	Carbon Disulfide	ND	0.0010	mg/kg	
56-23-5	Carbon Tetrachloride	ND	0.0010	mg/kg	
108-90-7	Chlorobenzene	ND	0.0010	mg/kg	
75-00-3	Chloroethane	ND	0.0010	mg/kg	
67-66-3	Chloroform	ND	0.0010	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0010	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0050	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.0010	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0010	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0010	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0010	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0010	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0010	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	mg/kg	
540-59-0	1,2-Dichloroethene (total)	ND	0.0010	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0010	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	mg/kg	
542-75-6	1,3-Dichloropropene (total)	ND	0.0010	mg/kg	
100-41-4	Ethylbenzene	ND	0.0010	mg/kg	
67-72-1	Hexachloroethane	ND	0.0050	mg/kg	
78-83-1	Isobutyl alcohol	ND	0.10	mg/kg	
74-83-9	Methyl Bromide	ND	0.010	mg/kg	
74-87-3	Methyl Chloride	ND	0.0050	mg/kg	
75-09-2	Methylene Chloride	ND	0.0050	mg/kg	
78-93-3	Methyl Ethyl Ketone	ND	0.013	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.013	mg/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	mg/kg	
100-42-5	Styrene	ND	0.0010	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.0010	mg/kg	
108-88-3	Toluene	ND	0.0050	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	mg/kg	
79-01-6	Trichloroethylene	ND	0.0010	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0010	mg/kg	
75-01-4	Vinyl Chloride	ND	0.0010	mg/kg	
	m,p-Xylene	ND	0.0020	mg/kg	
95-47-6	o-Xylene	ND	0.0010	mg/kg	
1330-20-7	Xylene (total)	ND	0.0020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		59-143%
2037-26-5	Toluene-D8	102%		52-159%
460-00-4	4-Bromofluorobenzene	102%		38-183%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028296.D	1	08/03/17 12:25	IK	08/02/17 11:38	OP9038	EC1176
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	0.17	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.66	mg/kg	
100-02-7	4-Nitrophenol	ND	0.66	mg/kg	
87-86-5	Pentachlorophenol	ND	0.17	mg/kg	
108-95-2	Phenol	ND	0.17	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	mg/kg	
83-32-9	Acenaphthene	ND	0.010	mg/kg	
208-96-8	Acenaphthylene	ND	0.010	mg/kg	
62-53-3	Aniline	ND	0.050	mg/kg	
120-12-7	Anthracene	ND	0.010	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.010	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.010	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.17	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.010	mg/kg	
85-68-7	Butyl Benzyl Phthalate	ND	0.17	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.17	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.17	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.17	mg/kg	
218-01-9	Chrysene	ND	0.010	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.010	mg/kg	
132-64-9	Dibenzofuran	ND	0.17	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.17	mg/kg	
84-66-2	Diethyl Phthalate	ND	0.17	mg/kg	
131-11-3	Dimethyl Phthalate	ND	0.17	mg/kg	
117-84-0	Di-n-octyl Phthalate	ND	0.17	mg/kg	
99-65-0	1,3-Dinitrobenzene	ND	0.17	mg/kg	

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	0.17	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.17	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.17	mg/kg	
206-44-0	Fluoranthene	ND	0.010	mg/kg	
86-73-7	Fluorene	ND	0.010	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.17	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.17	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.66	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.010	mg/kg	
78-59-1	Isophorone	ND	0.17	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.010	mg/kg	
91-20-3	Naphthalene	ND	0.010	mg/kg	
88-74-4	2-Nitroaniline	ND	0.66	mg/kg	
99-09-2	3-Nitroaniline	ND	0.66	mg/kg	
100-01-6	4-Nitroaniline	ND	0.66	mg/kg	
98-95-3	Nitrobenzene	ND	0.17	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.17	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	mg/kg	
85-01-8	Phenanthrene	ND	0.010	mg/kg	
129-00-0	Pyrene	ND	0.010	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		15-133%
4165-62-2	Phenol-d5	71%		21-127%
118-79-6	2,4,6-Tribromophenol	70%		7-142%
4165-60-0	Nitrobenzene-d5	66%		43-128%
321-60-8	2-Fluorobiphenyl	64%		47-126%
1718-51-0	Terphenyl-d14	87%		56-124%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

ND = Not detected

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015C SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LA274843.D	1	08/04/17 17:16	SV	07/29/17 12:40	n/a	GLA1418
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
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TPH-GRO (C6-C10)	ND	4.8	mg/kg
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	92%		63-139%
540-36-3	1,4-Difluorobenzene	93%		52-140%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8151 SW846 8151/3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	OA127670.D	1	08/01/17 22:05	ANJ	07/31/17 03:30	N:OP4878	N:GOA4362
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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88-85-7	Dinoseb	ND	0.016	mg/kg	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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19719-28-9	2,4-DCAA	36%		10-159%
19719-28-9	2,4-DCAA	34%		10-159%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

(b) Analysis performed at SGS Accutest, Dayton, NJ.

ND = Not detected

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8081B SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	8G7932.D	1	08/01/17 15:00	ANJ	07/31/17 06:45	N:OP4872	N:G8G235
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00067	mg/kg	
319-84-6	alpha-BHC	ND	0.00067	mg/kg	
319-85-7	beta-BHC	ND	0.00067	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00067	mg/kg	
12789-03-6	Chlordane	ND	0.033	mg/kg	
60-57-1	Dieldrin	ND	0.00067	mg/kg	
72-54-8	4,4'-DDD	ND	0.00067	mg/kg	
72-55-9	4,4'-DDE	ND	0.00067	mg/kg	
50-29-3	4,4'-DDT	ND	0.00067	mg/kg	
72-20-8	Endrin	ND	0.00067	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00067	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00067	mg/kg	
959-98-8	Endosulfan-I	ND	0.00067	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00067	mg/kg	
76-44-8	Heptachlor	ND	0.00067	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00067	mg/kg	
72-43-5	Methoxychlor	ND	0.0013	mg/kg	
8001-35-2	Toxaphene	ND	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		25-135%
877-09-8	Tetrachloro-m-xylene	93%		25-135%
2051-24-3	Decachlorobiphenyl	94%		10-156%
2051-24-3	Decachlorobiphenyl	60%		10-156%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

(b) Analysis performed at SGS Accutest, Dayton, NJ.

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015C SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S0029674.D	1	07/31/17 20:01	JT	07/31/17 08:00	OP9018	GLG533
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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TPH-DRO (C10-C28)	ND	5.0	mg/kg
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	90%		31-130%
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(a) All results with the exception of 29B parameters are reported on a wet weight basis.

ND = Not detected

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RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P-1/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-1	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Barium	13.1	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Cadmium	< 2.5	2.5	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Chromium	6.7	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Lead	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Mercury	< 0.069	0.069	mg/kg	1	08/01/17	08/02/17 RT	SW846 7471B ²	SW846 7471A ³
Selenium	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Silver	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴

(1) Instrument QC Batch: MA8604

(2) Instrument QC Batch: MA8608

(3) Prep QC Batch: MP8724

(4) Prep QC Batch: MP8727

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038141.D	1	08/02/17 18:21	PJ	07/29/17 12:40	n/a	V1H1321
Run #2							

	Initial Weight
Run #1	4.9 g
Run #2	

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.051	mg/kg	
71-43-2	Benzene	ND	0.00051	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0010	mg/kg	
75-25-2	Bromoform	ND	0.0010	mg/kg	
75-15-0	Carbon Disulfide	ND	0.0010	mg/kg	
56-23-5	Carbon Tetrachloride	ND	0.0010	mg/kg	
108-90-7	Chlorobenzene	ND	0.0010	mg/kg	
75-00-3	Chloroethane	ND	0.0010	mg/kg	
67-66-3	Chloroform	ND	0.0010	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0010	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0051	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.0010	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.0010	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.0010	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0010	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0010	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.0010	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	mg/kg	
540-59-0	1,2-Dichloroethene (total)	ND	0.0010	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0010	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	mg/kg	
542-75-6	1,3-Dichloropropene (total)	ND	0.0010	mg/kg	
100-41-4	Ethylbenzene	ND	0.0010	mg/kg	
67-72-1	Hexachloroethane	ND	0.0051	mg/kg	
78-83-1	Isobutyl alcohol	ND	0.10	mg/kg	
74-83-9	Methyl Bromide	ND	0.010	mg/kg	
74-87-3	Methyl Chloride	ND	0.0051	mg/kg	
75-09-2	Methylene Chloride	ND	0.0051	mg/kg	
78-93-3	Methyl Ethyl Ketone	ND	0.013	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.013	mg/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	mg/kg	
100-42-5	Styrene	ND	0.0010	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.0010	mg/kg	
108-88-3	Toluene	ND	0.0051	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	mg/kg	
79-01-6	Trichloroethylene	ND	0.0010	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0010	mg/kg	
75-01-4	Vinyl Chloride	ND	0.0010	mg/kg	
	m,p-Xylene	ND	0.0020	mg/kg	
95-47-6	o-Xylene	ND	0.0010	mg/kg	
1330-20-7	Xylene (total)	ND	0.0020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	115%		59-143%
2037-26-5	Toluene-D8	102%		52-159%
460-00-4	4-Bromofluorobenzene	103%		38-183%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

ND = Not detected

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028297.D	1	08/03/17 12:46	IK	08/02/17 11:38	OP9038	EC1176
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	0.17	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.66	mg/kg	
100-02-7	4-Nitrophenol	ND	0.66	mg/kg	
87-86-5	Pentachlorophenol	ND	0.17	mg/kg	
108-95-2	Phenol	ND	0.17	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	mg/kg	
83-32-9	Acenaphthene	ND	0.010	mg/kg	
208-96-8	Acenaphthylene	ND	0.010	mg/kg	
62-53-3	Aniline	ND	0.050	mg/kg	
120-12-7	Anthracene	ND	0.010	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.010	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.010	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.010	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.17	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.010	mg/kg	
85-68-7	Butyl Benzyl Phthalate	ND	0.17	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.17	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.17	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.17	mg/kg	
218-01-9	Chrysene	ND	0.010	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.010	mg/kg	
132-64-9	Dibenzofuran	ND	0.17	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.17	mg/kg	
84-66-2	Diethyl Phthalate	ND	0.17	mg/kg	
131-11-3	Dimethyl Phthalate	ND	0.17	mg/kg	
117-84-0	Di-n-octyl Phthalate	ND	0.17	mg/kg	
99-65-0	1,3-Dinitrobenzene	ND	0.17	mg/kg	

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	0.17	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.17	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.17	mg/kg	
206-44-0	Fluoranthene	ND	0.010	mg/kg	
86-73-7	Fluorene	ND	0.010	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.17	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.17	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.66	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.010	mg/kg	
78-59-1	Isophorone	ND	0.17	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.010	mg/kg	
91-20-3	Naphthalene	ND	0.010	mg/kg	
88-74-4	2-Nitroaniline	ND	0.66	mg/kg	
99-09-2	3-Nitroaniline	ND	0.66	mg/kg	
100-01-6	4-Nitroaniline	ND	0.66	mg/kg	
98-95-3	Nitrobenzene	ND	0.17	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.17	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	mg/kg	
85-01-8	Phenanthrene	ND	0.010	mg/kg	
129-00-0	Pyrene	ND	0.010	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		15-133%
4165-62-2	Phenol-d5	63%		21-127%
118-79-6	2,4,6-Tribromophenol	69%		7-142%
4165-60-0	Nitrobenzene-d5	58%		43-128%
321-60-8	2-Fluorobiphenyl	62%		47-126%
1718-51-0	Terphenyl-d14	81%		56-124%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015C SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LA274845.D	1	08/04/17 17:38	SV	07/29/17 12:40	n/a	GLA1418
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.90 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
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TPH-GRO (C6-C10)	ND	4.2	mg/kg
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	91%		63-139%
540-36-3	1,4-Difluorobenzene	92%		52-140%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8151 SW846 8151/3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	OA127671.D	1	08/01/17 22:34	ANJ	07/31/17 03:30	N:OP4878	N:GOA4362
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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88-85-7	Dinoseb	ND	0.016	mg/kg	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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19719-28-9	2,4-DCAA	34%		10-159%
19719-28-9	2,4-DCAA	42%		10-159%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

(b) Analysis performed at SGS Accutest, Dayton, NJ.

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8081B SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		
Run #1 ^b	File ID	DF	Analyzed By
Run #1	8G7933.D	1	08/01/17 15:15 ANJ
Run #2			07/31/17 06:45 N:OP4872 N:G8G235
	Initial Weight	Final Volume	
Run #1	15.2 g	10.0 ml	
Run #2			

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00066	mg/kg	
319-84-6	alpha-BHC	ND	0.00066	mg/kg	
319-85-7	beta-BHC	ND	0.00066	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00066	mg/kg	
12789-03-6	Chlordane	ND	0.033	mg/kg	
60-57-1	Dieldrin	ND	0.00066	mg/kg	
72-54-8	4,4'-DDD	ND	0.00066	mg/kg	
72-55-9	4,4'-DDE	ND	0.00066	mg/kg	
50-29-3	4,4'-DDT	ND	0.00066	mg/kg	
72-20-8	Endrin	ND	0.00066	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00066	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00066	mg/kg	
959-98-8	Endosulfan-I	ND	0.00066	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00066	mg/kg	
76-44-8	Heptachlor	ND	0.00066	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00066	mg/kg	
72-43-5	Methoxychlor	ND	0.0013	mg/kg	
8001-35-2	Toxaphene	ND	0.016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		25-135%
877-09-8	Tetrachloro-m-xylene	85%		25-135%
2051-24-3	Decachlorobiphenyl	85%		10-156%
2051-24-3	Decachlorobiphenyl	59%		10-156%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

(b) Analysis performed at SGS Accutest, Dayton, NJ.

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Report of Analysis

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015C SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S0029675.D	1	07/31/17 20:23	JT	07/31/17 08:00	OP9018	GLG533
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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TPH-DRO (C10-C28)	ND	5.0	mg/kg
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	112%	31-130%
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(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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Client Sample ID:	P-2/S-8	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-2	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Barium	11.5	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Cadmium	< 2.5	2.5	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Chromium	9.3	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Lead	7.1	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Mercury	< 0.080	0.080	mg/kg	1	08/01/17	08/02/17 RT	SW846 7471B ²	SW846 7471A ³
Selenium	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Silver	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴

(1) Instrument QC Batch: MA8604

(2) Instrument QC Batch: MA8608

(3) Prep QC Batch: MP8724

(4) Prep QC Batch: MP8727

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

RL = Reporting Limit

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038142.D	1	08/02/17 18:44	PJ	07/29/17 12:40	n/a	V1H1321
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.048	mg/kg	
71-43-2	Benzene	ND	0.00048	mg/kg	
75-27-4	Bromodichloromethane	ND	0.00096	mg/kg	
75-25-2	Bromoform	ND	0.00096	mg/kg	
75-15-0	Carbon Disulfide	ND	0.00096	mg/kg	
56-23-5	Carbon Tetrachloride	ND	0.00096	mg/kg	
108-90-7	Chlorobenzene	ND	0.00096	mg/kg	
75-00-3	Chloroethane	ND	0.00096	mg/kg	
67-66-3	Chloroform	ND	0.00096	mg/kg	
124-48-1	Dibromochloromethane	ND	0.00096	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0048	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.00096	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.00096	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.00096	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00096	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00096	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.00096	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.00096	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.00096	mg/kg	
540-59-0	1,2-Dichloroethene (total)	ND	0.00096	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.00096	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.00096	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.00096	mg/kg	
542-75-6	1,3-Dichloropropene (total)	ND	0.00096	mg/kg	
100-41-4	Ethylbenzene	ND	0.00096	mg/kg	
67-72-1	Hexachloroethane	ND	0.0048	mg/kg	
78-83-1	Isobutyl alcohol	ND	0.096	mg/kg	
74-83-9	Methyl Bromide	ND	0.0096	mg/kg	
74-87-3	Methyl Chloride	ND	0.0048	mg/kg	
75-09-2	Methylene Chloride	ND	0.0048	mg/kg	
78-93-3	Methyl Ethyl Ketone	ND	0.012	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.012	mg/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	0.00096	mg/kg	
100-42-5	Styrene	ND	0.00096	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.00096	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.00096	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.00096	mg/kg	
108-88-3	Toluene	ND	0.0048	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.00096	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.00096	mg/kg	
79-01-6	Trichloroethylene	ND	0.00096	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.00096	mg/kg	
75-01-4	Vinyl Chloride	ND	0.00096	mg/kg	
	m,p-Xylene	ND	0.0019	mg/kg	
95-47-6	o-Xylene	ND	0.00096	mg/kg	
1330-20-7	Xylene (total)	ND	0.0019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	119%		59-143%
2037-26-5	Toluene-D8	101%		52-159%
460-00-4	4-Bromofluorobenzene	101%		38-183%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

ND = Not detected

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028298.D	1	08/03/17 13:07	IK	08/02/17 11:38	OP9038	EC1176
Run #2							

	Initial Weight	Final Volume
Run #1	20.2 g	1.0 ml
Run #2		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	0.17	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.65	mg/kg	
100-02-7	4-Nitrophenol	ND	0.65	mg/kg	
87-86-5	Pentachlorophenol	ND	0.17	mg/kg	
108-95-2	Phenol	ND	0.17	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	mg/kg	
83-32-9	Acenaphthene	ND	0.0099	mg/kg	
208-96-8	Acenaphthylene	ND	0.0099	mg/kg	
62-53-3	Aniline	ND	0.050	mg/kg	
120-12-7	Anthracene	ND	0.0099	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0099	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0099	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0099	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.17	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0099	mg/kg	
85-68-7	Butyl Benzyl Phthalate	ND	0.17	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.17	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.17	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.17	mg/kg	
218-01-9	Chrysene	ND	0.0099	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0099	mg/kg	
132-64-9	Dibenzofuran	ND	0.17	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.17	mg/kg	
84-66-2	Diethyl Phthalate	ND	0.17	mg/kg	
131-11-3	Dimethyl Phthalate	ND	0.17	mg/kg	
117-84-0	Di-n-octyl Phthalate	ND	0.17	mg/kg	
99-65-0	1,3-Dinitrobenzene	ND	0.17	mg/kg	

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	0.17	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.17	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.17	mg/kg	
206-44-0	Fluoranthene	ND	0.0099	mg/kg	
86-73-7	Fluorene	ND	0.0099	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.17	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.17	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.65	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0099	mg/kg	
78-59-1	Isophorone	ND	0.17	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.0099	mg/kg	
91-20-3	Naphthalene	ND	0.0099	mg/kg	
88-74-4	2-Nitroaniline	ND	0.65	mg/kg	
99-09-2	3-Nitroaniline	ND	0.65	mg/kg	
100-01-6	4-Nitroaniline	ND	0.65	mg/kg	
98-95-3	Nitrobenzene	ND	0.17	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.17	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	mg/kg	
85-01-8	Phenanthrene	ND	0.0099	mg/kg	
129-00-0	Pyrene	ND	0.0099	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		15-133%
4165-62-2	Phenol-d5	65%		21-127%
118-79-6	2,4,6-Tribromophenol	70%		7-142%
4165-60-0	Nitrobenzene-d5	63%		43-128%
321-60-8	2-Fluorobiphenyl	68%		47-126%
1718-51-0	Terphenyl-d14	81%		56-124%

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015C SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LA274847.D	1	08/04/17 18:01	SV	07/29/17 12:40	n/a	GLA1418
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.10 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
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TPH-GRO (C6-C10)	ND	4.9	mg/kg
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	90%		63-139%
540-36-3	1,4-Difluorobenzene	92%		52-140%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8151 SW846 8151/3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	OA127675.D	1	08/02/17 00:30	ANJ	07/31/17 03:30	N:OP4878	N:GOA4362
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
88-85-7	Dinoseb	ND	0.016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	22%		10-159%
19719-28-9	2,4-DCAA	18%		10-159%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

(b) Analysis performed at SGS Accutest, Dayton, NJ.

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8081B SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	8G7934.D	1	08/01/17 15:30	ANJ	07/31/17 06:45	N:OP4872	N:G8G235
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00066	mg/kg	
319-84-6	alpha-BHC	ND	0.00066	mg/kg	
319-85-7	beta-BHC	ND	0.00066	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00066	mg/kg	
12789-03-6	Chlordane	ND	0.033	mg/kg	
60-57-1	Dieldrin	ND	0.00066	mg/kg	
72-54-8	4,4'-DDD	ND	0.00066	mg/kg	
72-55-9	4,4'-DDE	ND	0.00066	mg/kg	
50-29-3	4,4'-DDT	ND	0.00066	mg/kg	
72-20-8	Endrin	ND	0.00066	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00066	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00066	mg/kg	
959-98-8	Endosulfan-I	ND	0.00066	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00066	mg/kg	
76-44-8	Heptachlor	ND	0.00066	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00066	mg/kg	
72-43-5	Methoxychlor	ND	0.0013	mg/kg	
8001-35-2	Toxaphene	ND	0.016	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		25-135%
877-09-8	Tetrachloro-m-xylene	98%		25-135%
2051-24-3	Decachlorobiphenyl	97%		10-156%
2051-24-3	Decachlorobiphenyl	69%		10-156%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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Report of Analysis

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015C SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S0029676.D	1	07/31/17 20:44	JT	07/31/17 08:00	OP9018	GLG533
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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TPH-DRO (C10-C28)	ND	5.0	mg/kg
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	91%		31-130%
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Report of Analysis

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Client Sample ID:	P-3/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-3	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.4	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Barium	25.7	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Cadmium	< 2.5	2.5	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Chromium	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Lead	9.2	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Mercury	< 0.080	0.080	mg/kg	1	08/01/17	08/02/17 RT	SW846 7471B ²	SW846 7471A ³
Selenium	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Silver	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴

(1) Instrument QC Batch: MA8604

(2) Instrument QC Batch: MA8608

(3) Prep QC Batch: MP8724

(4) Prep QC Batch: MP8727

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

RL = Reporting Limit

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038143.D	1	08/02/17 19:08	PJ	07/29/17 12:40	n/a	V1H1321
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.049	mg/kg	
71-43-2	Benzene	ND	0.00049	mg/kg	
75-27-4	Bromodichloromethane	ND	0.00098	mg/kg	
75-25-2	Bromoform	ND	0.00098	mg/kg	
75-15-0	Carbon Disulfide	ND	0.00098	mg/kg	
56-23-5	Carbon Tetrachloride	ND	0.00098	mg/kg	
108-90-7	Chlorobenzene	ND	0.00098	mg/kg	
75-00-3	Chloroethane	ND	0.00098	mg/kg	
67-66-3	Chloroform	ND	0.00098	mg/kg	
124-48-1	Dibromochloromethane	ND	0.00098	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0049	mg/kg	
541-73-1	m-Dichlorobenzene	ND	0.00098	mg/kg	
95-50-1	o-Dichlorobenzene	ND	0.00098	mg/kg	
106-46-7	p-Dichlorobenzene	ND	0.00098	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00098	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00098	mg/kg	
75-35-4	1,1-Dichloroethylene	ND	0.00098	mg/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	0.00098	mg/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	0.00098	mg/kg	
540-59-0	1,2-Dichloroethene (total)	ND	0.00098	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.00098	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.00098	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.00098	mg/kg	
542-75-6	1,3-Dichloropropene (total)	ND	0.00098	mg/kg	
100-41-4	Ethylbenzene	ND	0.00098	mg/kg	
67-72-1	Hexachloroethane	ND	0.0049	mg/kg	
78-83-1	Isobutyl alcohol	ND	0.098	mg/kg	
74-83-9	Methyl Bromide	ND	0.0098	mg/kg	
74-87-3	Methyl Chloride	ND	0.0049	mg/kg	
75-09-2	Methylene Chloride	ND	0.0049	mg/kg	
78-93-3	Methyl Ethyl Ketone	ND	0.012	mg/kg	
108-10-1	4-Methyl-2-pentanone	ND	0.012	mg/kg	

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Report of Analysis

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8260B SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
1634-04-4	Methyl Tert Butyl Ether	ND	0.00098	mg/kg	
100-42-5	Styrene	ND	0.00098	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.00098	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.00098	mg/kg	
127-18-4	Tetrachloroethylene	ND	0.00098	mg/kg	
108-88-3	Toluene	ND	0.0049	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.00098	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.00098	mg/kg	
79-01-6	Trichloroethylene	ND	0.00098	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.00098	mg/kg	
75-01-4	Vinyl Chloride	ND	0.00098	mg/kg	
	m,p-Xylene	ND	0.0020	mg/kg	
95-47-6	o-Xylene	ND	0.00098	mg/kg	
1330-20-7	Xylene (total)	ND	0.0020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		59-143%
2037-26-5	Toluene-D8	101%		52-159%
460-00-4	4-Bromofluorobenzene	100%		38-183%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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Report of Analysis

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028299.D	1	08/03/17 13:29	IK	08/02/17 11:38	OP9038	EC1176
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	0.17	mg/kg	
120-83-2	2,4-Dichlorophenol	ND	0.17	mg/kg	
105-67-9	2,4-Dimethylphenol	ND	0.17	mg/kg	
51-28-5	2,4-Dinitrophenol	ND	0.64	mg/kg	
100-02-7	4-Nitrophenol	ND	0.64	mg/kg	
87-86-5	Pentachlorophenol	ND	0.17	mg/kg	
108-95-2	Phenol	ND	0.17	mg/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.17	mg/kg	
95-95-4	2,4,5-Trichlorophenol	ND	0.17	mg/kg	
88-06-2	2,4,6-Trichlorophenol	ND	0.17	mg/kg	
83-32-9	Acenaphthene	ND	0.0098	mg/kg	
208-96-8	Acenaphthylene	ND	0.0098	mg/kg	
62-53-3	Aniline	ND	0.049	mg/kg	
120-12-7	Anthracene	ND	0.0098	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0098	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0098	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0098	mg/kg	
92-52-4	1,1'-Biphenyl	ND	0.17	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0098	mg/kg	
85-68-7	Butyl Benzyl Phthalate	ND	0.17	mg/kg	
106-47-8	4-Chloroaniline	ND	0.17	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.17	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.17	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.17	mg/kg	
218-01-9	Chrysene	ND	0.0098	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0098	mg/kg	
132-64-9	Dibenzofuran	ND	0.17	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.17	mg/kg	
84-66-2	Diethyl Phthalate	ND	0.17	mg/kg	
131-11-3	Dimethyl Phthalate	ND	0.17	mg/kg	
117-84-0	Di-n-octyl Phthalate	ND	0.17	mg/kg	
99-65-0	1,3-Dinitrobenzene	ND	0.17	mg/kg	

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Report of Analysis

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8270D SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	0.17	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.17	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.17	mg/kg	
206-44-0	Fluoranthene	ND	0.0098	mg/kg	
86-73-7	Fluorene	ND	0.0098	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.17	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.17	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.64	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0098	mg/kg	
78-59-1	Isophorone	ND	0.17	mg/kg	
91-57-6	2-Methylnaphthalene	ND	0.0098	mg/kg	
91-20-3	Naphthalene	ND	0.0098	mg/kg	
88-74-4	2-Nitroaniline	ND	0.64	mg/kg	
99-09-2	3-Nitroaniline	ND	0.64	mg/kg	
100-01-6	4-Nitroaniline	ND	0.64	mg/kg	
98-95-3	Nitrobenzene	ND	0.17	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.17	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.17	mg/kg	
85-01-8	Phenanthrene	ND	0.0098	mg/kg	
129-00-0	Pyrene	ND	0.0098	mg/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.17	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	60%		15-133%
4165-62-2	Phenol-d5	64%		21-127%
118-79-6	2,4,6-Tribromophenol	68%		7-142%
4165-60-0	Nitrobenzene-d5	63%		43-128%
321-60-8	2-Fluorobiphenyl	63%		47-126%
1718-51-0	Terphenyl-d14	83%		56-124%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015C SW846 5035		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LA274841.D	1	08/04/17 16:53	SV	07/29/17 12:40	n/a	GLA1418
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
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TPH-GRO (C6-C10)	ND	5.0	mg/kg
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	93%		52-140%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8151 SW846 8151/3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	OA127676.D	1	08/02/17 00:59	ANJ	07/31/17 03:30	N:OP4878	N:GOA4362
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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88-85-7	Dinoseb	ND	0.016	mg/kg	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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19719-28-9	2,4-DCAA	48%		10-159%
19719-28-9	2,4-DCAA	42%		10-159%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

(b) Analysis performed at SGS Accutest, Dayton, NJ.

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8081B SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^b	8G7947.D	1	08/01/17 19:49	ANJ	07/31/17 06:45	N:OP4872	N:G8G235
Run #2							

	Initial Weight	Final Volume
Run #1	17.0 g	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00059	mg/kg	
319-84-6	alpha-BHC	ND	0.00059	mg/kg	
319-85-7	beta-BHC	ND	0.00059	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00059	mg/kg	
12789-03-6	Chlordane	ND	0.029	mg/kg	
60-57-1	Dieldrin	ND	0.00059	mg/kg	
72-54-8	4,4'-DDD	ND	0.00059	mg/kg	
72-55-9	4,4'-DDE	ND	0.00059	mg/kg	
50-29-3	4,4'-DDT	ND	0.00059	mg/kg	
72-20-8	Endrin	ND	0.00059	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00059	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00059	mg/kg	
959-98-8	Endosulfan-I	ND	0.00059	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00059	mg/kg	
76-44-8	Heptachlor	ND	0.00059	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00059	mg/kg	
72-43-5	Methoxychlor	ND	0.0012	mg/kg	
8001-35-2	Toxaphene	ND	0.015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	90%		25-135%
877-09-8	Tetrachloro-m-xylene	79%		25-135%
2051-24-3	Decachlorobiphenyl	96%		10-156%
2051-24-3	Decachlorobiphenyl	73%		10-156%

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

(b) Analysis performed at SGS Accutest, Dayton, NJ.

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Method:	SW846 8015C SW846 3546		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S0029677.D	1	07/31/17 21:05	JT	07/31/17 08:00	OP9018	GLG533
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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TPH-DRO (C10-C28)	ND	5.0	mg/kg
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	96%		31-130%
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(a) All results with the exception of 29B parameters are reported on a wet weight basis.

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E = Indicates value exceeds calibration range

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Client Sample ID:	P-4/S-10	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-4	Date Received:	07/28/17
Matrix:	SO - Soil	Percent Solids:	n/a ^a
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 4.6	4.6	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Barium	12.1	4.6	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Cadmium	< 2.3	2.3	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Chromium	< 4.6	4.6	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Lead	< 4.6	4.6	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Mercury	< 0.077	0.077	mg/kg	1	08/01/17	08/02/17 RT	SW846 7471B ²	SW846 7471A ³
Selenium	< 4.6	4.6	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴
Silver	< 4.6	4.6	mg/kg	5	08/01/17	08/02/17 RD	SW846 6010C ¹	SW846 3050B ⁴

- (1) Instrument QC Batch: MA8604
 (2) Instrument QC Batch: MA8608
 (3) Prep QC Batch: MP8724
 (4) Prep QC Batch: MP8727

(a) All results with the exception of 29B parameters are reported on a wet weight basis.

RL = Reporting Limit

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1X0025371.D	1	08/03/17 17:33	PJ	n/a	n/a	V1X359
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
75-15-0	Carbon Disulfide	ND	1.0	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
542-75-6	1,3-Dichloropropene (total)	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
67-72-1	Hexachloroethane	ND	1.0	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	ug/l	
74-83-9	Methyl Bromide	ND	1.0	ug/l	
74-87-3	Methyl Chloride	ND	1.0	ug/l	
75-09-2	Methylene Chloride	ND	1.0	ug/l	
78-93-3	Methyl Ethyl Ketone	ND	13	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

ND = Not detected

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RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
17060-07-0	1,2-Dichloroethane-D4	100%		84-124%	
2037-26-5	Toluene-D8	97%		83-115%	
460-00-4	4-Bromofluorobenzene	96%		89-111%	

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Report of Analysis

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028216.D	1	08/02/17 01:46	IK	07/31/17 12:00	OP9020	EC1172
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	1.0 ml
Run #2		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.4	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	ug/l	
100-02-7	4-Nitrophenol	ND	27	ug/l	
87-86-5	Pentachlorophenol	ND	1.1	ug/l	
108-95-2	Phenol	ND	5.4	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.4	ug/l	
83-32-9	Acenaphthene	ND	0.22	ug/l	
208-96-8	Acenaphthylene	ND	0.22	ug/l	
62-53-3	Aniline	ND	5.4	ug/l	
120-12-7	Anthracene	ND	0.22	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
92-52-4	1,1'-Biphenyl	ND	11	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.4	ug/l	
106-47-8	4-Chloroaniline	ND	5.4	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.4	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.4	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.4	ug/l	
218-01-9	Chrysene	ND	0.22	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
132-64-9	Dibenzofuran	ND	5.4	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	11	ug/l	
84-66-2	Diethyl Phthalate	ND	5.4	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.4	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.4	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	5.4	ug/l	

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Report of Analysis

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	5.4	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.4	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.4	ug/l	
206-44-0	Fluoranthene	ND	0.22	ug/l	
86-73-7	Fluorene	ND	0.22	ug/l	
118-74-1	Hexachlorobenzene ^a	ND	1.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.54	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
78-59-1	Isophorone	ND	5.4	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	5.4	ug/l	
99-09-2	3-Nitroaniline	ND	5.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.4	ug/l	
98-95-3	Nitrobenzene	ND	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.4	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.4	ug/l	
85-01-8	Phenanthrene	ND	0.22	ug/l	
129-00-0	Pyrene ^b	ND	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		23-85%
4165-62-2	Phenol-d5	42%		10-69%
118-79-6	2,4,6-Tribromophenol	77%		48-138%
4165-60-0	Nitrobenzene-d5	95%		51-128%
321-60-8	2-Fluorobiphenyl	85%		55-122%
1718-51-0	Terphenyl-d14	73%		43-138%

(a) All calibration verifications met 8270D criteria no exceptions. When analyses did not meet the 20% criterion, sensitivity was shown at the project reporting limit. Only non-detect client sample were reported behind a CCV > 20% D/D2.

(b) CCV recovery was above method acceptance criteria. This target analyte was not detected in the sample.

ND = Not detected

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Report of Analysis

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8011 SW846 8011		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LK010025.D	1	08/01/17 00:48	DF	07/31/17 16:00	OP9024	GLK611
Run #2							

	Initial Volume	Final Volume
Run #1	35.7 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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96-12-8	1,2-Dibromo-3-chloropropane	ND	0.020	ug/l	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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348-51-6	1-Chloro-2-fluorobenzene	99%		26-176%
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Report of Analysis

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC032240.D	1	08/04/17 11:30	SV	n/a	n/a	GLC1204
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
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	TPH-GRO (C6-C10)	ND	0.10	mg/l	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	96%		89-126%
540-36-3	1,4-Difluorobenzene	94%		70-135%

ND = Not detected

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8151 SW846 8151/3510C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	OA127708.D	1	08/02/17 22:31	ANJ	07/31/17 08:20	N:OP4867	N:GOA4363
Run #2							

	Initial Volume	Final Volume
Run #1	930 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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88-85-7	Dinoseb	ND	0.54	ug/l	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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19719-28-9	2,4-DCAA	84%		10-179%
19719-28-9	2,4-DCAA	53%		10-179%

(a) Analysis performed at SGS Accutest, Dayton, NJ.

ND = Not detected

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B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	8G7956.D	1	08/02/17 01:07	ANJ	07/31/17 09:30	N:OP4865	N:G8G235
Run #2							

	Initial Volume	Final Volume
Run #1	910 ml	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.011	ug/l	
319-84-6	alpha-BHC	ND	0.011	ug/l	
319-85-7	beta-BHC	ND	0.011	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.011	ug/l	
12789-03-6	Chlordane	ND	0.55	ug/l	
60-57-1	Dieldrin	ND	0.011	ug/l	
72-54-8	4,4'-DDD	ND	0.011	ug/l	
72-55-9	4,4'-DDE	ND	0.011	ug/l	
50-29-3	4,4'-DDT	ND	0.011	ug/l	
72-20-8	Endrin	ND	0.011	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.011	ug/l	
7421-93-4	Endrin aldehyde	ND	0.011	ug/l	
959-98-8	Endosulfan-I	ND	0.011	ug/l	
33213-65-9	Endosulfan-II	ND	0.011	ug/l	
76-44-8	Heptachlor	ND	0.011	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.011	ug/l	
72-43-5	Methoxychlor	ND	0.022	ug/l	
8001-35-2	Toxaphene	ND	0.27	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		13-153%
877-09-8	Tetrachloro-m-xylene	86%		13-153%
2051-24-3	Decachlorobiphenyl	24%		10-138%
2051-24-3	Decachlorobiphenyl	19%		10-138%

(a) Analysis performed at SGS Accutest, Dayton, NJ.

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N = Indicates presumptive evidence of a compound

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Client Sample ID:	PW-1	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-5	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8015C SW846 3511		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GLH014775.D	1	08/02/17 22:15	JT	08/02/17 08:00	OP9035	GLH334
Run #2							

	Initial Volume	Final Volume
Run #1	53.7 ml	1.5 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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TPH-DRO (C10-C28)	ND	0.14	mg/l
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	68%		41-148%
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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1X0025373.D	1	08/03/17 17:59	PJ	n/a	n/a	V1X359
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
75-15-0	Carbon Disulfide	ND	1.0	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
542-75-6	1,3-Dichloropropene (total)	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
67-72-1	Hexachloroethane	ND	1.0	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	ug/l	
74-83-9	Methyl Bromide	ND	1.0	ug/l	
74-87-3	Methyl Chloride	ND	1.0	ug/l	
75-09-2	Methylene Chloride	ND	1.0	ug/l	
78-93-3	Methyl Ethyl Ketone	ND	13	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	

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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

VOA RECAP List

CAS No.	Compound	Result	RL	Units	Q
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
17060-07-0	1,2-Dichloroethane-D4	97%		84-124%	
2037-26-5	Toluene-D8	100%		83-115%	
460-00-4	4-Bromofluorobenzene	96%		89-111%	

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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028217.D	1	08/02/17 02:07	IK	07/31/17 12:00	OP9020	EC1172
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	ug/l	
100-02-7	4-Nitrophenol	ND	26	ug/l	
87-86-5	Pentachlorophenol	ND	1.1	ug/l	
108-95-2	Phenol	ND	5.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	ug/l	
83-32-9	Acenaphthene	ND	0.21	ug/l	
208-96-8	Acenaphthylene	ND	0.21	ug/l	
62-53-3	Aniline	ND	5.3	ug/l	
120-12-7	Anthracene	ND	0.21	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.21	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.21	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.21	ug/l	
92-52-4	1,1'-Biphenyl	ND	11	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.3	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.3	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.3	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.3	ug/l	
218-01-9	Chrysene	ND	0.21	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.21	ug/l	
132-64-9	Dibenzofuran	ND	5.3	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	11	ug/l	
84-66-2	Diethyl Phthalate	ND	5.3	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.3	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.3	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	5.3	ug/l	

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Report of Analysis

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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

ABN RECAP LIST

CAS No.	Compound	Result	RL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	5.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.3	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.3	ug/l	
206-44-0	Fluoranthene	ND	0.21	ug/l	
86-73-7	Fluorene	ND	0.21	ug/l	
118-74-1	Hexachlorobenzene ^a	ND	1.1	ug/l	
87-68-3	Hexachlorobutadiene	ND	0.53	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.21	ug/l	
78-59-1	Isophorone	ND	5.3	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.21	ug/l	
91-20-3	Naphthalene	ND	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	ug/l	
98-95-3	Nitrobenzene	ND	1.1	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.3	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	ug/l	
85-01-8	Phenanthrene	ND	0.21	ug/l	
129-00-0	Pyrene ^b	ND	0.21	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1.1	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		23-85%
4165-62-2	Phenol-d5	36%		10-69%
118-79-6	2,4,6-Tribromophenol	70%		48-138%
4165-60-0	Nitrobenzene-d5	96%		51-128%
321-60-8	2-Fluorobiphenyl	85%		55-122%
1718-51-0	Terphenyl-d14	88%		43-138%

(a) All calibration verifications met 8270D criteria no exceptions. When analyses did not meet the 20% criterion, sensitivity was shown at the project reporting limit. Only non-detect client sample were reported behind a CCV > 20% D/D2.

(b) CCV recovery was above method acceptance criteria. This target analyte was not detected in the sample.

ND = Not detected

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8011 SW846 8011		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LK010026.D	1	08/01/17 01:02	DF	07/31/17 16:00	OP9024	GLK611
Run #2							

	Initial Volume	Final Volume
Run #1	35.0 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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96-12-8	1,2-Dibromo-3-chloropropane	ND	0.020	ug/l	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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348-51-6	1-Chloro-2-fluorobenzene	94%		26-176%
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Report of Analysis

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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8015C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC032244.D	1	08/04/17 13:34	SV	n/a	n/a	GLC1204
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	Units	Q
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	TPH-GRO (C6-C10)	ND	0.10	mg/l	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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460-00-4	4-Bromofluorobenzene	96%		89-126%
540-36-3	1,4-Difluorobenzene	92%		70-135%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
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 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8151 SW846 8151/3510C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	OA127709.D	1	08/02/17 23:00	ANJ	07/31/17 08:20	N:OP4867	N:GOA4363
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
----------------	-----------------	---------------	-----------	--------------	----------

88-85-7	Dinoseb	ND	0.54	ug/l	
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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19719-28-9	2,4-DCAA	76%		10-179%
19719-28-9	2,4-DCAA	44%		10-179%

(a) Analysis performed at SGS Accutest, Dayton, NJ.

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	8G7957.D	1	08/02/17 01:22	ANJ	07/31/17 09:30	N:OP4865	N:G8G235
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.010	ug/l	
319-84-6	alpha-BHC	ND	0.010	ug/l	
319-85-7	beta-BHC	ND	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	ug/l	
12789-03-6	Chlordane	ND	0.52	ug/l	
60-57-1	Dieldrin	ND	0.010	ug/l	
72-54-8	4,4'-DDD	ND	0.010	ug/l	
72-55-9	4,4'-DDE	ND	0.010	ug/l	
50-29-3	4,4'-DDT	ND	0.010	ug/l	
72-20-8	Endrin	ND	0.010	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.010	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	ug/l	
76-44-8	Heptachlor	ND	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	ug/l	
72-43-5	Methoxychlor	ND	0.021	ug/l	
8001-35-2	Toxaphene	ND	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		13-153%
877-09-8	Tetrachloro-m-xylene	89%		13-153%
2051-24-3	Decachlorobiphenyl	33%		10-138%
2051-24-3	Decachlorobiphenyl	27%		10-138%

(a) Analysis performed at SGS Accutest, Dayton, NJ.

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	PW-2	Date Sampled:	07/26/17
Lab Sample ID:	LA35798-6	Date Received:	07/28/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8015C SW846 3511		
Project:	Lazenby & Associates/South Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GLH014776.D	1	08/02/17 22:35	JT	08/02/17 08:00	OP9035	GLH334
Run #2							

	Initial Volume	Final Volume
Run #1	53.6 ml	1.5 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
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TPH-DRO (C10-C28)	ND	0.14	mg/l
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CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
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84-15-1	o-Terphenyl	67%		41-148%
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ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody



ACCUTEST

CHAIN OF CUSTODY

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

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<http://www.sgs.com/en/terms-and-conditions>

LA35798: Chain of Custody

SGS Accutest Sample Receipt Summary

Job Number: LA35798 **Client:** PPM CONSULTANTS **Project:** LAZENBY & ASSOCIATES
Date / Time Received: 7/28/2017 3:00:00 PM **Delivery Method:** Accutest Courier **Airbill #’s:**
Cooler Temps (Initial/Adjusted): #1: (2.4/2.4); #2: (1.4/1.4);

4.1

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Cooler Security		Y or N	Y or N		
1. Custody Seals Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>		
2. Custody Seals Intact:	<input checked="" type="checkbox"/> <input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>		
Cooler Temperature		Y or N			
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>				
2. Thermometer ID:	DV441;				
3. Cooler media:	Ice (direct contact)				
4. No. Coolers:	2				
Quality Control Preservation		Y or N	N/A		
1. Trip Blank present / cooler:	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>				
2. Trip Blank listed on COC:	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>				
3. Samples preserved properly:	<input checked="" type="checkbox"/> <input type="checkbox"/>				
4. VOCs headspace free:	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
Sample Integrity - Documentation					
1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/> 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/> 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/>					
Sample Integrity - Condition					
1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/> 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> 3. Condition of sample: Intact					
Sample Integrity - Instructions					
1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/> 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/> 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/> 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>					
Y or N N/A					

Comments

LA35798: Chain of Custody

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GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1H1321-MB1	1H0038126.D	1	08/02/17	PJ	n/a	n/a	V1H1321

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	7.9	50	ug/kg	J
71-43-2	Benzene	ND	0.50	ug/kg	
75-27-4	Bromodichloromethane	ND	1.0	ug/kg	
75-25-2	Bromoform	ND	1.0	ug/kg	
75-15-0	Carbon Disulfide	0.73	1.0	ug/kg	J
56-23-5	Carbon Tetrachloride	ND	1.0	ug/kg	
108-90-7	Chlorobenzene	ND	1.0	ug/kg	
75-00-3	Chloroethane	ND	1.0	ug/kg	
67-66-3	Chloroform	ND	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/kg	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/kg	
542-75-6	1,3-Dichloropropene (total)	ND	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
67-72-1	Hexachloroethane	ND	5.0	ug/kg	
78-83-1	Isobutyl alcohol	ND	100	ug/kg	
74-83-9	Methyl Bromide	ND	10	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	ug/kg	
75-09-2	Methylene Chloride	3.3	5.0	ug/kg	J
78-93-3	Methyl Ethyl Ketone	ND	13	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/kg	
100-42-5	Styrene	ND	1.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/kg	

5.1.1
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Method Blank Summary

Page 2 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1H1321-MB1	1H0038126.D	1	08/02/17	PJ	n/a	n/a	V1H1321

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Result	RL	Units	Q
127-18-4	Tetrachloroethylene	ND	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/kg	
79-01-6	Trichloroethylene	ND	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	1.0	ug/kg	
	m,p-Xylene	ND	2.0	ug/kg	
95-47-6	o-Xylene	ND	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	107% 59-143%
2037-26-5	Toluene-D8	103% 52-159%
460-00-4	4-Bromofluorobenzene	101% 38-183%

5.1.1
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Method Blank Summary

Page 1 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1X359-MB2	1X0025355.D	1	08/03/17	PJ	n/a	n/a	V1X359

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
75-15-0	Carbon Disulfide	ND	1.0	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
542-75-6	1,3-Dichloropropene (total)	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
67-72-1	Hexachloroethane	ND	1.0	ug/l	
78-83-1	Isobutyl Alcohol	ND	100	ug/l	
74-83-9	Methyl Bromide	ND	1.0	ug/l	
74-87-3	Methyl Chloride	ND	1.0	ug/l	
75-09-2	Methylene Chloride	ND	1.0	ug/l	
78-93-3	Methyl Ethyl Ketone	ND	13	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	

Method Blank Summary

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Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1X359-MB2	1X0025355.D	1	08/03/17	PJ	n/a	n/a	V1X359

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
108-88-3	Toluene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	2.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
17060-07-0	1,2-Dichloroethane-D4	98% 84-124%
2037-26-5	Toluene-D8	100% 83-115%
460-00-4	4-Bromofluorobenzene	96% 89-111%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1H1321-BS1	1H0038127.D	1	08/02/17	PJ	n/a	n/a	V1H1321
V1H1321-BSD1	1H0038128.D	1	08/02/17	PJ	n/a	n/a	V1H1321

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	69.9	140	55.7	111	23	40-153/30
71-43-2	Benzene	20	22.0	110	21.5	108	2	67-135/30
75-27-4	Bromodichloromethane	20	21.4	107	21.3	107	0	54-146/30
75-25-2	Bromoform	20	19.6	98	19.5	98	1	49-145/30
75-15-0	Carbon Disulfide	20	23.3	117	23.2	116	0	48-153/30
56-23-5	Carbon Tetrachloride	20	21.1	106	20.3	102	4	50-152/30
108-90-7	Chlorobenzene	20	22.7	114	21.8	109	4	57-144/30
75-00-3	Chloroethane	20	23.3	117	22.6	113	3	38-176/30
67-66-3	Chloroform	20	22.0	110	21.7	109	1	53-147/30
124-48-1	Dibromochloromethane	20	21.7	109	21.4	107	1	54-146/30
96-12-8	1,2-Dibromo-3-chloropropane	20	19.3	97	19.7	99	2	51-145/30
541-73-1	m-Dichlorobenzene	20	23.4	117	22.5	113	4	54-147/30
95-50-1	o-Dichlorobenzene	20	23.0	115	21.8	109	5	55-144/30
106-46-7	p-Dichlorobenzene	20	23.1	116	21.6	108	7	54-147/30
75-34-3	1,1-Dichloroethane	20	22.5	113	22.4	112	0	53-148/30
107-06-2	1,2-Dichloroethane	20	21.2	106	21.3	107	0	55-144/30
75-35-4	1,1-Dichloroethylene	20	21.1	106	20.7	104	2	49-153/30
156-59-2	cis-1,2-Dichloroethylene	20	21.1	106	21.6	108	2	52-147/30
156-60-5	trans-1,2-Dichloroethylene	20	21.3	107	20.5	103	4	51-152/30
540-59-0	1,2-Dichloroethene (total)	40	42.3	106	42.1	105	0	52-149/30
78-87-5	1,2-Dichloropropane	20	22.1	111	21.9	110	1	56-145/30
10061-01-5	cis-1,3-Dichloropropene	20	22.8	114	23.0	115	1	54-148/30
10061-02-6	trans-1,3-Dichloropropene	20	23.4	117	23.0	115	2	53-151/30
542-75-6	1,3-Dichloropropene (total)	40	46.3	116	46.1	115	0	50-150/30 ^a
100-41-4	Ethylbenzene	20	23.2	116	22.2	111	4	69-136/30
67-72-1	Hexachloroethane	20	21.1	106	20.2	101	4	46-150/30
78-83-1	Isobutyl alcohol	200	198	99	212	106	7	37-154/30
74-83-9	Methyl Bromide	20	24.4	122	24.3	122	0	40-170/30
74-87-3	Methyl Chloride	20	27.2	136	26.3	132	3	39-152/30
75-09-2	Methylene Chloride	20	22.7	114	22.7	114	0	51-142/30
78-93-3	Methyl Ethyl Ketone	50	54.9	110	54.3	109	1	48-150/30
108-10-1	4-Methyl-2-pentanone	50	57.0	114	59.8	120	5	50-151/30
1634-04-4	Methyl Tert Butyl Ether	20	20.5	103	21.1	106	3	61-142/30
100-42-5	Styrene	20	22.7	114	21.7	109	5	56-145/30
630-20-6	1,1,1,2-Tetrachloroethane	20	23.2	116	21.7	109	7	56-147/30
79-34-5	1,1,2,2-Tetrachloroethane	20	21.8	109	21.3	107	2	55-141/30

* = Outside of Control Limits.

5.2.1
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Blank Spike/Blank Spike Duplicate Summary

Page 2 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1H1321-BS1	1H0038127.D	1	08/02/17	PJ	n/a	n/a	V1H1321
V1H1321-BSD1	1H0038128.D	1	08/02/17	PJ	n/a	n/a	V1H1321

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
127-18-4	Tetrachloroethylene	20	21.6	108	21.2	106	2	54-156/30
108-88-3	Toluene	20	21.8	109	21.1	106	3	71-135/30
71-55-6	1,1,1-Trichloroethane	20	22.0	110	22.1	111	0	52-153/30
79-00-5	1,1,2-Trichloroethane	20	22.4	112	22.3	112	0	55-144/30
79-01-6	Trichloroethylene	20	22.9	115	22.4	112	2	56-151/30
75-69-4	Trichlorofluoromethane	20	23.7	119	23.2	116	2	36-171/30
75-01-4	Vinyl Chloride	20	22.9	115	23.1	116	1	42-155/30
	m,p-Xylene	40	45.8	115	44.4	111	3	70-140/30
95-47-6	o-Xylene	20	23.1	116	22.3	112	4	70-132/30
1330-20-7	Xylene (total)	60	68.9	115	66.7	111	3	69-138/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4	105%	105%	59-143%
2037-26-5	Toluene-D8	101%	100%	52-159%
460-00-4	4-Bromofluorobenzene	100%	99%	38-183%

(a) Advisory control limits.

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1X359-BS1	1X0025349.D	1	08/03/17	PJ	n/a	n/a	V1X359
V1X359-BSD1	1X0025351.D	1	08/03/17	PJ	n/a	n/a	V1X359

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-5, LA35798-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	42.2	84	41.4	83	2	38-178/30
71-43-2	Benzene	20	20.2	101	18.6	93	8	82-119/30
75-27-4	Bromodichloromethane	20	20.7	104	19.8	99	4	79-120/30
75-25-2	Bromoform	20	22.9	115	22.8	114	0	68-128/30
75-15-0	Carbon Disulfide	20	20.2	101	18.5	93	9	64-133/30
56-23-5	Carbon Tetrachloride	20	19.9	100	18.4	92	8	69-132/30
108-90-7	Chlorobenzene	20	21.6	108	19.9	100	8	85-120/30
75-00-3	Chloroethane	20	20.5	103	19.3	97	6	33-170/30
67-66-3	Chloroform	20	20.3	102	18.8	94	8	80-122/30
124-48-1	Dibromochloromethane	20	22.9	115	22.1	111	4	73-125/30
541-73-1	m-Dichlorobenzene	20	23.0	115	22.0	110	4	84-121/30
95-50-1	o-Dichlorobenzene	20	22.6	113	22.1	111	2	83-120/30
106-46-7	p-Dichlorobenzene	20	22.5	113	22.0	110	2	83-122/30
75-34-3	1,1-Dichloroethane	20	19.9	100	18.3	92	8	78-124/30
107-06-2	1,2-Dichloroethane	20	18.6	93	17.5	88	6	74-127/30
75-35-4	1,1-Dichloroethylene	20	20.1	101	18.2	91	10	70-134/30
156-59-2	cis-1,2-Dichloroethylene	20	19.6	98	18.3	92	7	78-122/30
156-60-5	trans-1,2-Dichloroethylene	20	19.7	99	18.6	93	6	75-127/30
540-59-0	1,2-Dichloroethene (total)	40	39.3	98	36.8	92	7	78-123/30
78-87-5	1,2-Dichloropropane	20	20.0	100	18.5	93	8	82-120/30
10061-01-5	cis-1,3-Dichloropropene	20	20.8	104	19.5	98	6	79-122/30
10061-02-6	trans-1,3-Dichloropropene	20	21.6	108	20.6	103	5	78-124/30
542-75-6	1,3-Dichloropropene (total)	40	42.4	106	40.2	101	5	50-150/30 ^a
100-41-4	Ethylbenzene	20	22.0	110	20.1	101	9	84-117/30
67-72-1	Hexachloroethane	20	21.9	110	21.5	108	2	53-141/30
78-83-1	Isobutyl Alcohol	200	147	74	155	78	5	20-175/30
74-83-9	Methyl Bromide	20	22.6	113	20.7	104	9	37-198/30
74-87-3	Methyl Chloride	20	20.2	101	18.2	91	10	50-136/30
75-09-2	Methylene Chloride	20	20.9	105	19.6	98	6	71-130/30
78-93-3	Methyl Ethyl Ketone	50	45.9	92	45.7	91	0	59-149/30
108-10-1	4-Methyl-2-pentanone	50	49.9	100	49.4	99	1	74-131/30
1634-04-4	Methyl Tert Butyl Ether	20	18.9	95	18.5	93	2	70-126/30
100-42-5	Styrene	20	23.1	116	21.1	106	9	79-128/30
630-20-6	1,1,1,2-Tetrachloroethane	20	22.8	114	21.1	106	8	84-120/30
79-34-5	1,1,2,2-Tetrachloroethane	20	22.3	112	22.2	111	0	77-126/30
127-18-4	Tetrachloroethylene	20	21.8	109	19.6	98	11	75-133/30

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1X359-BS1	1X0025349.D	1	08/03/17	PJ	n/a	n/a	V1X359
V1X359-BSD1	1X0025351.D	1	08/03/17	PJ	n/a	n/a	V1X359

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-5, LA35798-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
108-88-3	Toluene	20	21.5	108	19.7	99	9	80-121/30
71-55-6	1,1,1-Trichloroethane	20	20.6	103	18.9	95	9	74-126/30
79-00-5	1,1,2-Trichloroethane	20	21.1	106	20.2	101	4	80-123/30
79-01-6	Trichloroethylene	20	20.4	102	18.7	94	9	62-125/30
75-69-4	Trichlorofluoromethane	20	19.5	98	17.3	87	12	62-148/30
75-01-4	Vinyl Chloride	20	20.8	104	18.7	94	11	67-130/30
	m,p-Xylene	40	44.2	111	40.8	102	8	82-121/30
95-47-6	o-Xylene	20	22.4	112	20.6	103	8	84-119/30
1330-20-7	Xylene (total)	60	66.5	111	61.4	102	8	81-122/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4	97%	98%	84-124%
2037-26-5	Toluene-D8	98%	99%	83-115%
460-00-4	4-Bromofluorobenzene	98%	98%	89-111%

(a) Advisory control limits.

* = Outside of Control Limits.

5.2.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
LA35768-11MS	1X0025367.D	2	08/03/17	PJ	n/a	n/a	V1X359
LA35768-11MSD	1X0025369.D	2	08/03/17	PJ	n/a	n/a	V1X359
LA35768-11 a	1X0025365.D	1	08/03/17	PJ	n/a	n/a	V1X359

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-5, LA35798-6

CAS No.	Compound	LA35768-11		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits Rec/RPD
		ug/l	Q	ug/l	ug/l	%	ug/l	ug/l	%		
67-64-1	Acetone	ND		100	57.8	58	100	60.4	60	4	39-164/27
71-43-2	Benzene	ND		40	41.2	103	40	40.3	101	2	31-161/15
75-27-4	Bromodichloromethane	ND		40	37.7	94	40	38.0	95	1	64-122/36
75-25-2	Bromoform	ND		40	37.1	93	40	38.0	95	2	43-125/37
75-15-0	Carbon Disulfide	ND		40	41.6	104	40	38.5	96	8	38-138/36
56-23-5	Carbon Tetrachloride	ND		40	39.1	98	40	38.0	95	3	53-133/36
108-90-7	Chlorobenzene	ND		40	39.3	98	40	37.8	95	4	74-122/34
75-00-3	Chloroethane	ND		40	43.6	109	40	40.0	100	9	14-181/43
67-66-3	Chloroform	ND		40	39.6	99	40	38.3	96	3	65-130/24
124-48-1	Dibromochloromethane	ND		40	38.4	96	40	38.8	97	1	57-121/36
541-73-1	m-Dichlorobenzene	ND		40	38.0	95	40	37.3	93	2	70-120/35
95-50-1	o-Dichlorobenzene	ND		40	37.6	94	40	36.4	91	3	72-120/35
106-46-7	p-Dichlorobenzene	ND		40	37.5	94	40	36.5	91	3	68-120/35
75-34-3	1,1-Dichloroethane	ND		40	40.1	100	40	38.2	96	5	56-138/32
107-06-2	1,2-Dichloroethane	0.41	J	40	36.5	90	40	36.2	89	1	51-141/39
75-35-4	1,1-Dichloroethylene	ND		40	41.4	104	40	37.8	95	9	48-139/37
156-59-2	cis-1,2-Dichloroethylene	ND		40	39.3	98	40	37.4	94	5	56-133/15
156-60-5	trans-1,2-Dichloroethylene	ND		40	40.3	101	40	38.5	96	5	59-128/37
540-59-0	1,2-Dichloroethene (total)	ND		80	79.6	100	80	76.0	95	5	54-134/30
78-87-5	1,2-Dichloropropane	ND		40	37.9	95	40	38.0	95	0	68-124/32
10061-01-5	cis-1,3-Dichloropropene	ND		40	37.8	95	40	37.0	93	2	62-120/35
10061-02-6	trans-1,3-Dichloropropene	ND		40	37.4	94	40	37.6	94	1	64-119/36
542-75-6	1,3-Dichloropropene (total)	ND		80	75.3	94	80	74.6	93	1	50-150/30 b
100-41-4	Ethylbenzene	ND		40	40.5	101	40	38.8	97	4	47-146/30
67-72-1	Hexachloroethane	ND		40	34.0	85	40	32.6	82	4	32-128/39
78-83-1	Isobutyl Alcohol	ND		400	212	53	400	271	68	24	33-142/54
74-83-9	Methyl Bromide	ND		40	47.4	119	40	42.9	107	10	1-150/64
74-87-3	Methyl Chloride	ND		40	40.5	101	40	38.8	97	4	16-146/29
75-09-2	Methylene Chloride	ND		40	42.9	107	40	41.1	103	4	55-134/36
78-93-3	Methyl Ethyl Ketone	ND		100	75.1	75	100	77.5	78	3	54-142/39
108-10-1	4-Methyl-2-pentanone	ND		100	84.4	84	100	92.2	92	9	60-140/40
1634-04-4	Methyl Tert Butyl Ether	ND		40	37.2	93	40	38.0	95	2	52-146/32
100-42-5	Styrene	ND		40	38.9	97	40	38.2	96	2	67-128/35
630-20-6	1,1,1,2-Tetrachloroethane	ND		40	39.8	100	40	37.5	94	6	67-121/35
79-34-5	1,1,2,2-Tetrachloroethane	ND		40	38.6	97	40	39.2	98	2	64-133/38
127-18-4	Tetrachloroethylene	ND		40	39.9	100	40	38.8	97	3	58-135/37

* = Outside of Control Limits.

5.3.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
LA35768-11MS	1X0025367.D	2	08/03/17	PJ	n/a	n/a	V1X359
LA35768-11MSD	1X0025369.D	2	08/03/17	PJ	n/a	n/a	V1X359
LA35768-11 ^a	1X0025365.D	1	08/03/17	PJ	n/a	n/a	V1X359

The QC reported here applies to the following samples:

Method: SW846 8260B

LA35798-5, LA35798-6

CAS No.	Compound	LA35768-11		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits Rec/RPD
		ug/l	Q	ug/l	ug/l	%	ug/l	ug/l	%		
108-88-3	Toluene	ND	40	41.5	104	40	39.8	100	4	36-155/17	
71-55-6	1,1,1-Trichloroethane	ND	40	40.3	101	40	39.0	98	3	63-128/36	
79-00-5	1,1,2-Trichloroethane	ND	40	37.8	95	40	37.8	95	0	61-138/17	
79-01-6	Trichloroethylene	ND	40	39.8	100	40	39.1	98	2	57-131/36	
75-69-4	Trichlorofluoromethane	ND	40	39.4	99	40	36.9	92	7	31-156/36	
75-01-4	Vinyl Chloride	ND	40	42.0	105	40	39.8	100	5	22-155/49	
	m,p-Xylene	ND	80	80.5	101	80	78.0	98	3	35-159/31	
95-47-6	o-Xylene	ND	40	39.7	99	40	38.7	97	3	50-144/35	
1330-20-7	Xylene (total)	ND	120	120	100	120	117	98	3	41-154/29	

CAS No.	Surrogate Recoveries	MS	MSD	LA35768-11 Limits
17060-07-0	1,2-Dichloroethane-D4	101%	100%	97% 84-124%
2037-26-5	Toluene-D8	99%	99%	98% 83-115%
460-00-4	4-Bromofluorobenzene	99%	98%	97% 89-111%

(a) Sample used for QC purposes only.

(b) Advisory control limits.

* = Outside of Control Limits.

5.3.1
5

GC/MS Semi-volatiles**QC Data Summaries**

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Page 1 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9020-MB	C0028196.D	1	08/01/17	IK	07/31/17	OP9020	EC1172

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	ug/l	
100-02-7	4-Nitrophenol	ND	25	ug/l	
87-86-5	Pentachlorophenol	ND	10	ug/l	
108-95-2	Phenol	ND	5.0	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	ug/l	
83-32-9	Acenaphthene	ND	0.20	ug/l	
208-96-8	Acenaphthylene	ND	0.20	ug/l	
62-53-3	Aniline	ND	5.0	ug/l	
120-12-7	Anthracene	ND	0.20	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
92-52-4	1,1'-Biphenyl	ND	10	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	ug/l	
218-01-9	Chrysene	ND	0.20	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
132-64-9	Dibenzofuran	ND	5.0	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	10	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.0	ug/l	
99-65-0	1,3-Dinitrobenzene	ND	5.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	ug/l	
206-44-0	Fluoranthene	ND	0.20	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9020-MB	C0028196.D	1	08/01/17	IK	07/31/17	OP9020	EC1172

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
86-73-7	Fluorene	ND	0.20	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
78-59-1	Isophorone	ND	5.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	0.20	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	ug/l	
98-95-3	Nitrobenzene	ND	5.0	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	5.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	ug/l	
85-01-8	Phenanthrene	ND	0.20	ug/l	
129-00-0	Pyrene	ND	0.20	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	58% 23-85%
4165-62-2	Phenol-d5	41% 10-69%
118-79-6	2,4,6-Tribromophenol	75% 48-138%
4165-60-0	Nitrobenzene-d5	99% 51-128%
321-60-8	2-Fluorobiphenyl	95% 55-122%
1718-51-0	Terphenyl-d14	98% 43-138%

Method Blank Summary

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Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9038-MB	C0028252.D	1	08/02/17	IK	08/02/17	OP9038	EC1175

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Result	RL	Units	Q
95-57-8	2-Chlorophenol	ND	170	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	660	ug/kg	
100-02-7	4-Nitrophenol	ND	660	ug/kg	
87-86-5	Pentachlorophenol	ND	170	ug/kg	
108-95-2	Phenol	ND	170	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	ug/kg	
83-32-9	Acenaphthene	ND	10	ug/kg	
208-96-8	Acenaphthylene	ND	10	ug/kg	
62-53-3	Aniline	ND	170	ug/kg	
120-12-7	Anthracene	ND	10	ug/kg	
56-55-3	Benzo(a)anthracene	ND	10	ug/kg	
50-32-8	Benzo(a)pyrene	ND	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	10	ug/kg	
92-52-4	1,1'-Biphenyl	3.0	170	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	10	ug/kg	
85-68-7	Butyl Benzyl Phthalate	ND	170	ug/kg	
106-47-8	4-Chloroaniline	ND	170	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	ug/kg	
218-01-9	Chrysene	ND	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	10	ug/kg	
132-64-9	Dibenzofuran	ND	170	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	ug/kg	
84-66-2	Diethyl Phthalate	2.2	170	ug/kg	J
131-11-3	Dimethyl Phthalate	ND	170	ug/kg	
117-84-0	Di-n-octyl Phthalate	ND	170	ug/kg	
99-65-0	1,3-Dinitrobenzene	ND	170	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	170	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	170	ug/kg	
206-44-0	Fluoranthene	ND	10	ug/kg	

Method Blank Summary

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Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9038-MB	C0028252.D	1	08/02/17	IK	08/02/17	OP9038	EC1175

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Result	RL	Units	Q
86-73-7	Fluorene	ND	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	660	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	10	ug/kg	
78-59-1	Isophorone	ND	170	ug/kg	
91-57-6	2-Methylnaphthalene	ND	10	ug/kg	
91-20-3	Naphthalene	ND	10	ug/kg	
88-74-4	2-Nitroaniline	ND	660	ug/kg	
99-09-2	3-Nitroaniline	ND	660	ug/kg	
100-01-6	4-Nitroaniline	ND	660	ug/kg	
98-95-3	Nitrobenzene	ND	170	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	ug/kg	
85-01-8	Phenanthrene	ND	10	ug/kg	
129-00-0	Pyrene	ND	10	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	96%
4165-62-2	Phenol-d5	100%
118-79-6	2,4,6-Tribromophenol	90%
4165-60-0	Nitrobenzene-d5	99%
321-60-8	2-Fluorobiphenyl	96%
1718-51-0	Terphenyl-d14	98%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9020-BS	C0028197.D	1	08/01/17	IK	07/31/17	OP9020	EC1172
OP9020-BSD	C0028198.D	1	08/01/17	IK	07/31/17	OP9020	EC1172

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-5, LA35798-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	50	40.1	80	43.8	88	9	63-104/19
120-83-2	2,4-Dichlorophenol	50	45.4	91	46.5	93	2	68-112/19
105-67-9	2,4-Dimethylphenol	50	42.5	85	44.0	88	3	64-110/20
51-28-5	2,4-Dinitrophenol	50	40.6	81	40.1	80	1	51-121/30
100-02-7	4-Nitrophenol	50	17.9	36	17.3	35	3	20-68/23
87-86-5	Pentachlorophenol	50	34.3	69	33.1	66	4	52-120/29
108-95-2	Phenol	50	18.7	37	20.9	42	11	18-67/20
58-90-2	2,3,4,6-Tetrachlorophenol	50	38.6	77	37.2	74	4	67-121/21
95-95-4	2,4,5-Trichlorophenol	50	45.9	92	45.4	91	1	67-119/21
88-06-2	2,4,6-Trichlorophenol	50	47.2	94	45.9	92	3	67-120/21
83-32-9	Acenaphthene	50	42.3	85	41.5	83	2	67-114/28
208-96-8	Acenaphthylene	50	45.0	90	44.1	88	2	67-119/26
62-53-3	Aniline	50	39.2	78	41.0	82	4	40-114/40
120-12-7	Anthracene	50	46.0	92	43.8	88	5	68-121/24
56-55-3	Benzo(a)anthracene	50	48.0	96	45.8	92	5	69-113/20
50-32-8	Benzo(a)pyrene	50	50.1	100	47.5	95	5	71-124/22
205-99-2	Benzo(b)fluoranthene	50	47.3	95	45.8	92	3	72-120/22
207-08-9	Benzo(k)fluoranthene	50	51.7	103	47.0	94	10	71-124/21
92-52-4	1,1'-Biphenyl	50	43.6	87	43.1	86	1	65-122/29
85-68-7	Butyl Benzyl Phthalate	50	54.6	109	50.7	101	7	73-123/21
106-47-8	4-Chloroaniline	50	44.7	89	42.4	85	5	58-113/51
111-44-4	bis(2-Chloroethyl)ether	50	45.0	90	48.6	97	8	50-118/28
108-60-1	bis(2-Chloroisopropyl)ether	50	42.6	85	45.6	91	7	43-138/21
91-58-7	2-Chloronaphthalene	50	43.8	88	43.6	87	0	64-114/30
218-01-9	Chrysene	50	49.4	99	47.1	94	5	70-115/20
53-70-3	Dibenzo(a,h)anthracene	50	47.9	96	45.5	91	5	70-124/21
132-64-9	Dibenzofuran	50	44.2	88	43.0	86	3	67-117/27
91-94-1	3,3'-Dichlorobenzidine	50	44.7	89	41.7	83	7	69-122/38
84-66-2	Diethyl Phthalate	50	45.2	90	43.4	87	4	71-123/21
131-11-3	Dimethyl Phthalate	50	45.3	91	43.4	87	4	69-119/20
117-84-0	Di-n-octyl Phthalate	50	55.4	111	51.8	104	7	66-121/22
99-65-0	1,3-Dinitrobenzene	50	44.5	89	42.9	86	4	71-122/21
121-14-2	2,4-Dinitrotoluene	50	45.1	90	43.0	86	5	73-122/21
606-20-2	2,6-Dinitrotoluene	50	48.0	96	46.2	92	4	72-121/21
117-81-7	bis(2-Ethylhexyl)phthalate	50	54.7	109	51.3	103	6	68-126/21
206-44-0	Fluoranthene	50	46.4	93	44.0	88	5	73-120/21

* = Outside of Control Limits.

6.2.1
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Blank Spike/Blank Spike Duplicate Summary

Page 2 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9020-BS	C0028197.D	1	08/01/17	IK	07/31/17	OP9020	EC1172
OP9020-BSD	C0028198.D	1	08/01/17	IK	07/31/17	OP9020	EC1172

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-5, LA35798-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
86-73-7	Fluorene	50	44.3	89	43.1	86	3	69-118/25
118-74-1	Hexachlorobenzene	50	36.8	74	35.5	71	4	67-117/23
87-68-3	Hexachlorobutadiene	50	35.5	71	37.3	75	5	42-120/35
77-47-4	Hexachlorocyclopentadiene	50	36.2	72	37.4	75	3	35-123/48
193-39-5	Indeno(1,2,3-cd)pyrene	50	47.5	95	44.6	89	6	70-123/21
78-59-1	Isophorone	50	48.0	96	48.1	96	0	70-119/19
91-57-6	2-Methylnaphthalene	50	43.3	87	43.5	87	0	65-113/27
91-20-3	Naphthalene	50	41.9	84	43.4	87	4	63-114/23
88-74-4	2-Nitroaniline	50	44.9	90	42.9	86	5	68-125/21
99-09-2	3-Nitroaniline	50	47.1	94	44.0	88	7	69-117/23
100-01-6	4-Nitroaniline	50	47.1	94	44.2	88	6	67-122/19
98-95-3	Nitrobenzene	50	46.3	93	47.6	95	3	69-116/21
621-64-7	N-Nitroso-di-n-propylamine	50	46.5	93	48.8	98	5	67-120/20
86-30-6	N-Nitrosodiphenylamine	50	45.6	91	43.6	87	4	67-119/25
85-01-8	Phenanthrene	50	43.7	87	41.9	84	4	70-117/23
129-00-0	Pyrene	50	57.1	114	54.6	109	4	70-119/21
95-94-3	1,2,4,5-Tetrachlorobenzene	50	38.8	78	39.0	78	1	55-117/35
120-82-1	1,2,4-Trichlorobenzene	50	43.1	86	45.4	91	5	56-111/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	51%	57%	23-85%
4165-62-2	Phenol-d5	36%	40%	10-69%
118-79-6	2,4,6-Tribromophenol	79%	73%	48-138%
4165-60-0	Nitrobenzene-d5	103%	104%	51-128%
321-60-8	2-Fluorobiphenyl	92%	89%	55-122%
1718-51-0	Terphenyl-d14	97%	88%	43-138%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9038-BS	C0028254.D	1	08/02/17	IK	08/02/17	OP9038	EC1175
OP9038-BSD	C0028255.D	1	08/02/17	IK	08/02/17	OP9038	EC1175

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	2500	2390	96	2410	96	1	64-107/30
120-83-2	2,4-Dichlorophenol	2500	2420	97	2460	98	2	68-109/30
105-67-9	2,4-Dimethylphenol	2500	2390	96	2420	97	1	65-107/30
51-28-5	2,4-Dinitrophenol	2500	2010	80	2090	84	4	29-119/30
100-02-7	4-Nitrophenol	2500	2380	95	2430	97	2	59-118/30
87-86-5	Pentachlorophenol	2500	2390	96	2360	94	1	52-109/30
108-95-2	Phenol	2500	2410	96	2450	98	2	60-112/30
58-90-2	2,3,4,6-Tetrachlorophenol	2500	2450	98	2470	99	1	66-112/30
95-95-4	2,4,5-Trichlorophenol	2500	2220	89	2230	89	0	66-113/30
88-06-2	2,4,6-Trichlorophenol	2500	2440	98	2420	97	1	67-112/30
83-32-9	Acenaphthene	2500	2360	94	2360	94	0	68-103/30
208-96-8	Acenaphthylene	2500	2450	98	2450	98	0	66-108/30
62-53-3	Aniline	2500	2410	96	2450	98	2	65-115/30
120-12-7	Anthracene	2500	2500	100	2430	97	3	66-112/30
56-55-3	Benzo(a)anthracene	2500	2400	96	2390	96	0	61-106/30
50-32-8	Benzo(a)pyrene	2500	2650	106	2620	105	1	71-112/30
205-99-2	Benzo(b)fluoranthene	2500	2620	105	2470	99	6	66-108/30
92-52-4	1,1'-Biphenyl	2500	2400	96	2400	96	0	62-114/30
207-08-9	Benzo(k)fluoranthene	2500	2570	103	2650	106	3	64-116/30
85-68-7	Butyl Benzyl Phthalate	2500	2440	98	2450	98	0	66-119/30
106-47-8	4-Chloroaniline	2500	2430	97	2500	100	3	63-109/30
111-44-4	bis(2-Chloroethyl)ether	2500	2380	95	2440	98	2	62-111/30
108-60-1	bis(2-Chloroisopropyl)ether	2500	2350	94	2410	96	3	64-107/30
91-58-7	2-Chloronaphthalene	2500	2390	96	2390	96	0	67-103/30
218-01-9	Chrysene	2500	2400	96	2390	96	0	66-106/30
53-70-3	Dibenzo(a,h)anthracene	2500	2590	104	2520	101	3	49-117/30
132-64-9	Dibenzofuran	2500	2420	97	2410	96	0	67-106/30
91-94-1	3,3'-Dichlorobenzidine	2500	2390	96	2440	98	2	66-113/30
84-66-2	Diethyl Phthalate	2500	2500	100	2490	100	0	67-111/30
131-11-3	Dimethyl Phthalate	2500	2500	100	2500	100	0	68-106/30
117-84-0	Di-n-octyl Phthalate	2500	2470	99	2460	98	0	62-117/30
99-65-0	1,3-Dinitrobenzene	2500	2350	94	2380	95	1	65-116/30
121-14-2	2,4-Dinitrotoluene	2500	2440	98	2450	98	0	64-117/30
606-20-2	2,6-Dinitrotoluene	2500	2410	96	2400	96	0	69-111/30
117-81-7	bis(2-Ethylhexyl)phthalate	2500	2450	98	2450	98	0	63-119/30
206-44-0	Fluoranthene	2500	2590	104	2550	102	2	65-112/30

* = Outside of Control Limits.

6.2.2
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Blank Spike/Blank Spike Duplicate Summary

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Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9038-BS	C0028254.D	1	08/02/17	IK	08/02/17	OP9038	EC1175
OP9038-BSD	C0028255.D	1	08/02/17	IK	08/02/17	OP9038	EC1175

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
86-73-7	Fluorene	2500	2440	98	2440	98	0	67-108/30
118-74-1	Hexachlorobenzene	2500	2520	101	2500	100	1	64-109/30
87-68-3	Hexachlorobutadiene	2500	2320	93	2340	94	1	64-108/30
77-47-4	Hexachlorocyclopentadiene	2500	2190	88	2180	87	0	49-117/30
193-39-5	Indeno(1,2,3-cd)pyrene	2500	2560	102	2500	100	2	68-110/30
78-59-1	Isophorone	2500	2400	96	2450	98	2	65-105/30
91-57-6	2-Methylnaphthalene	2500	2370	95	2390	96	1	65-107/30
91-20-3	Naphthalene	2500	2300	92	2290	92	0	64-107/30
88-74-4	2-Nitroaniline	2500	2360	94	2410	96	2	65-116/30
99-09-2	3-Nitroaniline	2500	2410	96	2430	97	1	69-112/30
100-01-6	4-Nitroaniline	2500	2460	98	2520	101	2	61-113/30
98-95-3	Nitrobenzene	2500	2350	94	2400	96	2	65-109/30
621-64-7	N-Nitroso-di-n-propylamine	2500	2460	98	2450	98	0	64-112/30
86-30-6	N-Nitrosodiphenylamine	2500	2530	101	2480	99	2	66-111/30
85-01-8	Phenanthrene	2500	2380	95	2360	94	1	63-110/30
129-00-0	Pyrene	2500	2540	102	2520	101	1	60-112/30
95-94-3	1,2,4,5-Tetrachlorobenzene	2500	2340	94	2380	95	2	65-109/30
120-82-1	1,2,4-Trichlorobenzene	2500	2340	94	2400	96	3	66-104/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	90%	94%	15-133%
4165-62-2	Phenol-d5	97%	100%	21-127%
118-79-6	2,4,6-Tribromophenol	99%	98%	7-142%
4165-60-0	Nitrobenzene-d5	105%	106%	43-128%
321-60-8	2-Fluorobiphenyl	97%	97%	47-126%
1718-51-0	Terphenyl-d14	100%	99%	56-124%

* = Outside of Control Limits.

6.2.2
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Matrix Spike Summary

Page 1 of 2

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9038-MS	C0028293.D	1	08/03/17	IK	08/02/17	OP9038	EC1176
LA35857-3	F0031816.D	1	08/02/17	IK	08/02/17	OP9038	EF1069

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	LA35857-3		Spike	MS	MS	Limits
		ug/kg	Q	ug/kg	ug/kg	%	
95-57-8	2-Chlorophenol	ND		2500	2310	92	32-130
120-83-2	2,4-Dichlorophenol	ND		2500	2330	93	1-166
105-67-9	2,4-Dimethylphenol	ND		2500	2290	92	21-135
51-28-5	2,4-Dinitrophenol	ND		2500	1010	40	1-140
100-02-7	4-Nitrophenol	ND		2500	2210	88	25-135
87-86-5	Pentachlorophenol	ND		2500	1810	72	5-128
108-95-2	Phenol	ND		2500	2290	92	28-128
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2500	2100	84	31-126
95-95-4	2,4,5-Trichlorophenol	ND		2500	2140	86	31-129
88-06-2	2,4,6-Trichlorophenol	ND		2500	2290	92	30-132
83-32-9	Acenaphthene	ND		2500	2240	90	36-126
208-96-8	Acenaphthylene	ND		2500	2310	92	40-129
62-53-3	Aniline	ND		2500	2240	90	38-133
120-12-7	Anthracene	ND		2500	2330	93	35-133
56-55-3	Benzo(a)anthracene	12.2		2500	2270	90	31-130
50-32-8	Benzo(a)pyrene	6.5		2500	2540	101	23-144
205-99-2	Benzo(b)fluoranthene	11.1		2500	2450	98	31-133
92-52-4	1,1'-Biphenyl	3.5		2500	2290	91	39-124
207-08-9	Benzo(k)fluoranthene	ND		2500	2510	100	34-140
85-68-7	Butyl Benzyl Phthalate	ND		2500	2390	96	23-146
106-47-8	4-Chloroaniline	ND		2500	2320	93	18-135
111-44-4	bis(2-Chloroethyl)ether	ND		2500	2220	89	25-138
108-60-1	bis(2-Chloroisopropyl)ether	ND		2500	2230	89	39-127
91-58-7	2-Chloronaphthalene	ND		2500	2300	92	42-125
218-01-9	Chrysene	6.4		2500	2290	91	18-153
53-70-3	Dibenzo(a,h)anthracene	ND		2500	2450	98	20-140
132-64-9	Dibenzofuran	ND		2500	2310	92	34-128
91-94-1	3,3'-Dichlorobenzidine	ND		2500	2310	92	1-153
84-66-2	Diethyl Phthalate	ND		2500	2360	94	31-137
131-11-3	Dimethyl Phthalate	ND		2500	2380	95	28-138
117-84-0	Di-n-octyl Phthalate	ND		2500	2450	98	21-145
99-65-0	1,3-Dinitrobenzene	ND		2500	2200	88	50-125
121-14-2	2,4-Dinitrotoluene	ND		2500	2300	92	30-136
606-20-2	2,6-Dinitrotoluene	ND		2500	2270	91	36-131
117-81-7	bis(2-Ethylhexyl)phthalate	108		2500	2550	98	26-149
206-44-0	Fluoranthene	9.7		2500	2490	99	31-132

* = Outside of Control Limits.

6.3.1
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Matrix Spike Summary

Page 2 of 2

Job Number: LA35798
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9038-MS	C0028293.D	1	08/03/17	IK	08/02/17	OP9038	EC1176
LA35857-3	F0031816.D	1	08/02/17	IK	08/02/17	OP9038	EF1069

The QC reported here applies to the following samples:

Method: SW846 8270D

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	LA35857-3		Spike	MS	MS	Limits
		ug/kg	Q	ug/kg	ug/kg	%	
86-73-7	Fluorene	ND		2500	2300	92	33-133
118-74-1	Hexachlorobenzene	ND		2500	2280	91	41-125
87-68-3	Hexachlorobutadiene	ND		2500	2280	91	26-135
77-47-4	Hexachlorocyclopentadiene	ND		2500	2060	82	1-149
193-39-5	Indeno(1,2,3-cd)pyrene	9.6		2500	2450	98	23-136
78-59-1	Isophorone	ND		2500	2290	92	35-134
91-57-6	2-Methylnaphthalene	2.4		2500	2290	92	43-124
91-20-3	Naphthalene	ND		2500	2220	89	44-123
88-74-4	2-Nitroaniline	ND		2500	2240	90	48-128
99-09-2	3-Nitroaniline	ND		2500	2250	90	49-127
100-01-6	4-Nitroaniline	ND		2500	2320	93	37-139
98-95-3	Nitrobenzene	ND		2500	2230	89	47-125
621-64-7	N-Nitroso-di-n-propylamine	ND		2500	2340	94	27-142
86-30-6	N-Nitrosodiphenylamine	ND		2500	2380	95	38-128
85-01-8	Phenanthrene	7.2		2500	2250	90	30-132
129-00-0	Pyrene	21.4		2500	2470	98	32-139
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		2500	2230	89	52-121
120-82-1	1,2,4-Trichlorobenzene	ND		2500	2330	93	51-120

CAS No.	Surrogate Recoveries	MS	LA35857-3	Limits
367-12-4	2-Fluorophenol	89%		15-133%
4165-62-2	Phenol-d5	95%		21-127%
118-79-6	2,4,6-Tribromophenol	92%		7-142%
4165-60-0	Nitrobenzene-d5	102%	81%	43-128%
321-60-8	2-Fluorobiphenyl	94%	77%	47-126%
1718-51-0	Terphenyl-d14	96%	86%	56-124%

* = Outside of Control Limits.

GC Volatiles**QC Data Summaries**

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

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Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9024-MB	LK010007.D	1	07/31/17	DF	07/31/17	OP9024	GLK611

The QC reported here applies to the following samples:

Method: SW846 8011

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.020	ug/l	

CAS No.	Surrogate Recoveries	Limits
348-51-6	1-Chloro-2-fluorobenzene	104% 26-176%

Method Blank Summary

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Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1418-MB1	LA274803.D	1	08/04/17	SV	n/a	n/a	GLA1418

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	104% 63-139%
540-36-3	1,4-Difluorobenzene	99% 52-140%

Method Blank Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLC1204-MB2	LC032238.D	1	08/04/17	SV	n/a	n/a	GLC1204

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	98%
540-36-3	1,4-Difluorobenzene	94% 89-126% 70-135%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9024-BS	LK010008.D	1	07/31/17	DF	07/31/17	OP9024	GLK611
OP9024-BSD	LK010009.D	1	07/31/17	DF	07/31/17	OP9024	GLK611

The QC reported here applies to the following samples:

Method: SW846 8011

LA35798-5, LA35798-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
96-12-8	1,2-Dibromo-3-chloropropane	0.251	0.25	99	0.25	99	0	35-182/48

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
348-51-6	1-Chloro-2-fluorobenzene	106%	102%	26-176%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLC1204-BS1	LC032233.D	1	08/04/17	SV	n/a	n/a	GLC1204
GLC1204-BSD1	LC032234.D	1	08/04/17	SV	n/a	n/a	GLC1204

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-5, LA35798-6

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	1	0.922	92	0.942	94	2	77-118/7

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	95%	98%	89-126%
540-36-3	1,4-Difluorobenzene	106%	106%	70-135%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GLA1418-BS1	LA274799.D	1	08/04/17	SV	n/a	n/a	GLA1418
GLA1418-BSD1	LA274801.D	1	08/04/17	SV	n/a	n/a	GLA1418

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	50	49.4	99	47.4	95	4	79-121/6

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	99%	99%	63-139%
540-36-3	1,4-Difluorobenzene	103%	103%	52-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9024-MS	LK010032.D	1	08/01/17	DF	07/31/17	OP9024	GLK611
OP9024-MSD	LK010033.D	1	08/01/17	DF	07/31/17	OP9024	GLK611
LA35768-1	LK010018.D	1	07/31/17	DF	07/31/17	OP9024	GLK611

The QC reported here applies to the following samples:

Method: SW846 8011

LA35798-5, LA35798-6

7.3.1
7

CAS No.	Compound	LA35768-1		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits Rec/RPD
		ug/l	Q	ug/l	ug/l	%	ug/l	ug/l	%		
96-12-8	1,2-Dibromo-3-chloropropane	ND		0.251	0.23	91	0.25	0.23	92	0	35-182/48
Surrogate Recoveries											
348-51-6	1-Chloro-2-fluorobenzene			99%	99%	105%		26-176%			

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
LA35796-8MS	LA274813.D	1	08/04/17	SV	n/a	n/a	GLA1418
LA35796-8MSD	LA274815.D	1	08/04/17	SV	n/a	n/a	GLA1418
LA35796-8	LA274811.D	1	08/04/17	SV	n/a	n/a	GLA1418

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-1, LA35798-2, LA35798-3, LA35798-4

7.3.2
7

CAS No.	Compound	LA35796-8		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits Rec/RPD
		mg/kg	Q	mg/kg	mg/kg	%	mg/kg	mg/kg	%		
	TPH-GRO (C6-C10)	500		1920	2670	113	1920	2700	114	1	79-121/6
CAS No. Surrogate Recoveries MS MSD LA35796-8 Limits											
460-00-4	4-Bromofluorobenzene	98%		100%		100%		63-139%			
540-36-3	1,4-Difluorobenzene	103%		105%		105%		52-140%			

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
LA35798-5MS	LC032249.D	10	08/04/17	SV	n/a	n/a	GLC1204
LA35798-5MSD	LC032250.D	10	08/04/17	SV	n/a	n/a	GLC1204
LA35798-5	LC032240.D	1	08/04/17	SV	n/a	n/a	GLC1204

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-5, LA35798-6

CAS No.	Compound	LA35798-5		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits Rec/RPD
		mg/l	Q	mg/l	mg/l	%	mg/l	mg/l	%		
	TPH-GRO (C6-C10)	ND		10	8.47	85	10	8.36	84	1	77-118/7
CAS No. Surrogate Recoveries											
		MS		MSD		LA35798-5		MSD			
460-00-4	4-Bromofluorobenzene	98%		97%		96%		89-126%			
540-36-3	1,4-Difluorobenzene	102%		103%		94%		70-135%			

* = Outside of Control Limits.

7.3.3
7

GC Semi-volatiles**QC Data Summaries**

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9018-MB	S0029684B.D	1	07/31/17	JT	07/31/17	OP9018	GLG533

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	89% 31-130%

8.1.1
8

Method Blank Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9035-MB	GLH014754A.D		08/02/17	JT	08/02/17	OP9035	GLH334

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	0.070	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	80% 41-148%

8.1.2

8

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9018-BS	S0029685B.D	1	07/31/17	JT	07/31/17	OP9018	GLG533
OP9018-BSD	S0029686B.D	1	08/01/17	JT	07/31/17	OP9018	GLG533

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	150	130	87	114	76	13	60-115/46

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	98%	89%	31-130%

* = Outside of Control Limits.

8.2.1
8

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: PPMLAM PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9035-BS	GLH014755A.D		08/02/17	JT	08/02/17	OP9035	GLH334
OP9035-BSD	GLH014756A.D		08/02/17	JT	08/02/17	OP9035	GLH334

The QC reported here applies to the following samples:

Method: SW846 8015C

LA35798-5, LA35798-6

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	5.61	4.86	87	5.07	91	4	53-135/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	86%	90%	41-148%

* = Outside of Control Limits.

Metals Analysis**QC Data Summaries**

6

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA35798
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8724
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/01/17

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.080	.0039	.0047	-0.0019	<0.080

Associated samples MP8724: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35798
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8724
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/01/17

Metal	TD6889-1 Original MS	Spikelot HGSPIKE1	QC % Rec	QC Limits
Mercury	0.041	0.74	0.717	97.5 75-125

Associated samples MP8724: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35798
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8724
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/01/17

Metal	TD6889-1 Original	MSD	Spikelot HGSPIKE1	MSD % Rec	QC RPD	QC Limit
Mercury	0.041	0.82	0.745	104.5	10.3	20

Associated samples MP8724: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

9.1.2
9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA35798

Account: PPMLAM - PPM Consultants

Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8724
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/01/17

Metal	LCS Result	Spikelot LCSHG4	QC % Rec	QC Limits
Mercury	12.5	12.3	101.6	64-136

Associated samples MP8724: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: LA35798
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8724
Matrix Type: SOLID

Methods: SW846 7471B
Units: ug/l

Prep Date: 08/01/17

Metal	TD6889-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.276	0.340	23.2 (a) 0-	

Associated samples MP8724: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

9.1.4
9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA35798
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8727
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date:

08/01/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	1.4	2.5		
Antimony	0.60	.14	.16		
Arsenic	1.0	.19	.25	0.028	<1.0
Barium	1.0	.021	.08	-0.0020	<1.0
Beryllium	0.40	.005	.02		
Boron	50	.095	.66		
Cadmium	0.50	.013	.06	0.0020	<0.50
Calcium	10	.51	4.1		
Chromium	1.0	.029	.1	0.016	<1.0
Cobalt	1.0	.015	.08		
Copper	1.0	.043	.6		
Iron	10	.28	1.5		
Lead	1.0	.09	.15	0.0080	<1.0
Lithium	1.0	.11	.28		
Magnesium	10	1.8	1.9		
Manganese	5.0	.005	.09		
Molybdenum	1.0	.015	.11		
Nickel	1.0	.03	.78		
Potassium	50	2.5	8.3		
Selenium	1.0	.17	.51	-0.10	<1.0
Silver	1.0	.032	.12	-0.013	<1.0
Sodium	50	.65	1.9		
Strontium	1.0	.009	.07		
Thallium	0.50	.13	.16		
Tin	5.0	.076	.2		
Titanium	1.0	.046	.2		
Vanadium	1.0	.033	.09		
Zinc	5.0	.063	.46		

Associated samples MP8727: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
(anr) Analyte not requested

9.2.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35798
 Account: PPMLAM - PPM Consultants
 Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8727
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 08/01/17

Metal	LA35798-1 Original MS	Spikelot ICPSPIKE1% Rec	QC Limits
Aluminum	anr		
Antimony			
Arsenic	2.9	104	100
Barium	13.1	119	100
Beryllium			
Boron			
Cadmium	0.0	104	100
Calcium			
Chromium	6.7	108	100
Cobalt			
Copper	anr		
Iron			
Lead	4.5	106	100
Lithium			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium	0.0	94.6	100
Silver	0.0	104	100
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

Associated samples MP8727: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35798
 Account: PPMLAM - PPM Consultants
 Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8727
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date:

08/01/17

Metal	LA35798-1 Original MSD	Spikelot ICPSPIKE1% Rec	MSD RPD	QC Limit
Aluminum	anr			
Antimony				
Arsenic	2.9	104	100	101.1
Barium	13.1	118	100	104.9
Beryllium				
Boron				
Cadmium	0.0	104	100	104.0
Calcium				
Chromium	6.7	110	100	103.3
Cobalt				
Copper	anr			
Iron				
Lead	4.5	106	100	101.5
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	0.0	95.2	100	95.2
Silver	0.0	105	100	105.0
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP8727: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

9.2.2

9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA35798
 Account: PPMLAM - PPM Consultants
 Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8727
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 08/01/17

Metal	LCS Result	Spikelot LCSMETALS4% Rec	QC Limits
Aluminum	anr		
Antimony			
Arsenic	61.0	57	107.0 75-125
Barium	111	110	100.9 82-118
Beryllium			
Boron			
Cadmium	82.3	77.8	105.8 83-117
Calcium			
Chromium	61.0	65	93.8 79-121
Cobalt			
Copper	anr		
Iron			
Lead	82.3	85.6	96.1 82-118
Lithium			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium	80.8	78.9	102.4 78-122
Silver	58.9	54.2	108.7 75-125
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

Associated samples MP8727: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits
 (anr) Analyte not requested

9.2.3
 9

SERIAL DILUTION RESULTS SUMMARY

Login Number: LA35798
 Account: PPMLAM - PPM Consultants
 Project: Lazenby & Associates/South Tract-Calhoun, LA

QC Batch ID: MP8727
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 08/01/17

Metal	LA35798-1 Original	SDL 5:25	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	28.9	0.00	100.0(a)	0-10
Barium	131	134	2.1	0-10
Beryllium				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	67.1	70.9	5.6	0-10
Cobalt				
Copper	anr			
Iron				
Lead	45.4	45.4	0.0	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP8727: LA35798-1, LA35798-2, LA35798-3, LA35798-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

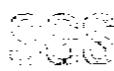
9.2.4
9

Misc. Forms**Custody Documents and Other Forms**

(SGS Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody



SO
ACCUTEST

CHAIN OF CUSTODY

Page 1 of 1

Sample Number: LA35798 Date: 7/26/2012
Site: 500 Ambassador Caffery Parkway, Suite 100, New Orleans, LA 70130
Analyst Name: -

RECEIVED DATE: 7/26/2012 TEST CODE SHEET:
TEST CODE SHEET: LA35798

TEST CODE SHEET: LA35798

Client/Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Company Name:	Project Name:	Sample ID:	Sample Description:	Analysis:	Specimen Type:		
SGS Accutest:	Lazarey & Associates South Tracy, Calcasieu, LA						
Street Address:	Sheet						
City, State, Zip:	500 Ambassador Caffery Parkway, LA 70130						
Phone Number:	504-334-5227						
E-mail Address:	lazarey@sgs.com						
Date:	7/26/2012	Date:	7/26/2012	Date:	7/26/2012		
Project Director:	John Lazarey	Project Name:	Project Description:	Specimen Type:			
Project Manager:	JR	Phone:	Address:	Specimen Type:			
Comments:							
Notes:	Field ID, Point of Collection	Method Used	Date	Time	Specimen ID	Specimen Type	
1	P-1/S-5	1650 CO 141	7/26/12	10:50:00 AM	LR	SQ	X
2	P-2/S-8	1650 CO 141	7/26/12	11:20:00 PM	LR	SQ	X
3	P-3/S-10	1650 CO 141	7/26/12	11:30:00 PM	LR	SQ	X
4	P-4/S-19	1650 CO 141	7/26/12	2:45:00 PM	LR	SQ	X
5	PW-1	1650 CO 141	7/26/12	3:20:00 PM	LR	AQ	X
6	PW-2	1650 CO 141	7/26/12	3:48:00 PM	LR	AQ	X
Comments/Instructions:							
Turnaround Time: Estimated:	Approved By (SGS Requester/PM): Date:	Date Deliverable Information:			Comments/Spec Instructions:		
<input type="checkbox"/> 24 hr Business Days	<input checked="" type="checkbox"/> Commercial 10 ⁶ (Level 1)	<input type="checkbox"/> 7 days	<input checked="" type="checkbox"/> Commercial 9 ⁶ (Level 2)	<input type="checkbox"/> EOD Format	ASSESSMENT 2A 2C		
<input type="checkbox"/> 24 hr RUSH	<input type="checkbox"/> FASTER 1 Level 3 ⁴	<input type="checkbox"/> Other	<input type="checkbox"/> RECTI Level 4 ⁴	<input type="checkbox"/> COMMERCIAL	SPECIFICATION D4C		
<input type="checkbox"/> 3 Day EMERGENCY	<input type="checkbox"/> COMMERCIAL	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 1)	<input type="checkbox"/> COMMERCIAL 9 ⁶ (Level 2)	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 3)			
<input type="checkbox"/> 2 Day EMERGENCY	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 1)	<input type="checkbox"/> COMMERCIAL 9 ⁶ (Level 2)	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 3)	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 4)			
<input type="checkbox"/> 1 Day EMERGENCY	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 1)	<input type="checkbox"/> COMMERCIAL 9 ⁶ (Level 2)	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 3)	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 4)			
<input checked="" type="checkbox"/> other: Due 87/0012	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 1)	<input type="checkbox"/> COMMERCIAL 9 ⁶ (Level 2)	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 3)	<input type="checkbox"/> COMMERCIAL 10 ⁶ (Level 4)			
Sample Custody must be documented below each time samples change possession, including courier delivery.							
1	Date/Tm:	Received By:	Transferred By:	Date/Tm:	Received By:		
7/26/12 1	FX	2	FX	7/26/12 2	2		
2	Date/Tm:	Received By:	Transferred By:	Date/Tm:	Received By:		
3	7/26/12 3		4	7/26/12 4			
4	Date/Tm:	Received By:	Custody Shift:	Date/Tm:	Received By:		
5	7/26/12 5			7/26/12 5			

10.1
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LA35798: Chain of Custody

Page 1 of 4

SGS Accutest New Jersey

SGS Accutest Sample Receipt Summary

Job Number: LA35798 Client: _____ Project: _____
 Date / Time Received: 7/29/2017 9:50:00 AM Delivery Method: _____ Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (1.9);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Security	<u>Y or N</u>	<u>Y or N</u>	Sample Integrity - Documentation	<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature			Sample Integrity - Condition		
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		1. Sample rcvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun		2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Cooler media:	Ice (Bag)		3. Condition of sample:	Intact	
4. No. Coolers:	1				
Quality Control Preservation			Sample Integrity - Instructions		
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Sufficient volume rcvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>
			5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>
Comments					

SM089-02
Rev. Date 12/1/16

10.1
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LA35798: Chain of Custody
Page 2 of 4

Job Change Order: LA35798

Requested Date:	7/31/2017	Received Date:	7/28/2017
Account Name:	P&PM Consultants	Due Date:	8/7/2017
Project Description:	Lazearby & Associates/South Tract Calhoun, LA	Deliverable:	COMMB
CSR:	amy	TAT (Days):	7
<hr/>			
Sample #:	LA35798-1	Change:	
Dept:		Remove P8081PESTPPL. Add P8081PESTRECAP.	
TAT:	7		
<hr/>			
P-1/S-8			
<hr/>			
Sample #:	LA35798-2	Change:	
Dept:		Remove P8081PESTPPL. Add P8081PESTRECAP.	
TAT:	7		
<hr/>			
P-2/S-8			
<hr/>			
Sample #:	LA35798-3	Change:	
Dept:		Remove P8081PESTPPL. Add P8081PESTRECAP.	
TAT:	7		
<hr/>			
P-3/S-10			
<hr/>			
Sample #:	LA35798-4	Change:	
Dept:		Remove P8081PESTPPL. Add P8081PESTRECAP.	
TAT:	7		
<hr/>			
P-4/S-10			
<hr/>			

Above Changes Per: Amy Jackson

Date/Time: 7/31/2017 11:56:00 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

LA35798: Chain of Custody

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Job Change Order: LA35798

Requested Date:	7/31/2017	Received Date:	7/28/2017
Account Name:	P&PM Consultants	Due Date:	8/7/2017
Project Description:	Lazearny & Associates/South Tract Calhoun, LA	Deliverable:	COMMB
CSR:	amy	TAT (Days):	7
=====			
Sample #:	LA35798-5	Change:	
Dept:		Remove P8081PESTPPL. Add F8081PESTRCAP.	
TAT:	7		
=====			
PW-1			
=====			
Sample #:	LA35798-6	Change:	
Dept:		Remove P8081PESTPPL. Add F8081PESTRCAP.	
TAT:	7		
PW-2			
=====			

Above Changes Per: Amy Jackson

Date/Time: 7/31/2017 11:56:00 AM

To Client: This Change Order is confirmation of the revisions, previously discussed with the SGS Accutest Client Service Representative.

Page 2 of 2

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LA35798: Chain of Custody

Page 4 of 4

GC Semi-volatiles**QC Data Summaries**

(SGS Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4878-MB1	OA127650.D	1	08/01/17	VDT	07/31/17	OP4878	GOA4362

The QC reported here applies to the following samples:

Method: SW846 8151

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Result	RL	Units	Q
88-85-7	Dinoseb	ND	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits
19719-28-9	2,4-DCAA	82%
19719-28-9	2,4-DCAA	74%

11.1
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Method Blank Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4867-MB1	OA127698.D	1	08/02/17	VDT	07/31/17	OP4867	GOA4363

The QC reported here applies to the following samples:

Method: SW846 8151

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
88-85-7	Dinoseb	ND	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits
19719-28-9	2,4-DCAA	106%
19719-28-9	2,4-DCAA	69%

11.1.2
11

Method Blank Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4865-MB1	8G7951.D	1	08/01/17	CP	07/31/17	OP4865	G8G235

The QC reported here applies to the following samples:

Method: SW846 8081B

LA35798-5, LA35798-6

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.010	ug/l	
319-84-6	alpha-BHC	ND	0.010	ug/l	
319-85-7	beta-BHC	ND	0.010	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	ug/l	
12789-03-6	Chlordane	ND	0.50	ug/l	
60-57-1	Dieldrin	ND	0.010	ug/l	
72-54-8	4,4'-DDD	ND	0.010	ug/l	
72-55-9	4,4'-DDE	ND	0.010	ug/l	
50-29-3	4,4'-DDT	ND	0.010	ug/l	
72-20-8	Endrin	ND	0.010	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	ug/l	
959-98-8	Endosulfan-I	ND	0.010	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	ug/l	
76-44-8	Heptachlor	ND	0.010	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	ug/l	
72-43-5	Methoxychlor	ND	0.020	ug/l	
8001-35-2	Toxaphene	ND	0.25	ug/l	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	93%
877-09-8	Tetrachloro-m-xylene	89%
2051-24-3	Decachlorobiphenyl	52%
2051-24-3	Decachlorobiphenyl	42%

11.1.3
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Method Blank Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4872-MB1	8G7916.D	1	08/01/17	CP	07/31/17	OP4872	G8G235

The QC reported here applies to the following samples:

Method: SW846 8081B

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.67	ug/kg	
319-84-6	alpha-BHC	ND	0.67	ug/kg	
319-85-7	beta-BHC	ND	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	ug/kg	
12789-03-6	Chlordane	ND	33	ug/kg	
60-57-1	Dieldrin	ND	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	ug/kg	
72-20-8	Endrin	ND	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	ug/kg	
76-44-8	Heptachlor	ND	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	ug/kg	
72-43-5	Methoxychlor	ND	1.3	ug/kg	
8001-35-2	Toxaphene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries	Limits
877-09-8	Tetrachloro-m-xylene	89%
877-09-8	Tetrachloro-m-xylene	80%
2051-24-3	Decachlorobiphenyl	117%
2051-24-3	Decachlorobiphenyl	104%

Blank Spike Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4865-BS1	8G7952.D	1	08/02/17	CP	07/31/17	OP4865	G8G235

The QC reported here applies to the following samples:

Method: SW846 8081B

LA35798-5, LA35798-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
309-00-2	Aldrin	0.25	0.25	100	13-135
319-84-6	alpha-BHC	0.25	0.26	104	36-139
319-85-7	beta-BHC	0.25	0.26	104	44-136
58-89-9	gamma-BHC (Lindane)	0.25	0.27	108	43-136
60-57-1	Dieldrin	0.25	0.27	108	39-142
72-54-8	4,4'-DDD	0.25	0.26	104	36-142
72-55-9	4,4'-DDE	0.25	0.26	104	27-140
50-29-3	4,4'-DDT	0.25	0.23	92	30-144
72-20-8	Endrin	0.25	0.27	108	44-151
1031-07-8	Endosulfan sulfate	0.25	0.27	108	41-144
7421-93-4	Endrin aldehyde	0.25	0.26	104	42-144
959-98-8	Endosulfan-I	0.25	0.26	104	40-136
33213-65-9	Endosulfan-II	0.25	0.26	104	42-140
76-44-8	Heptachlor	0.25	0.24	96	11-140
1024-57-3	Heptachlor epoxide	0.25	0.27	108	41-138
72-43-5	Methoxychlor	0.25	0.23	92	31-149

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	81%	13-153%
877-09-8	Tetrachloro-m-xylene	78%	13-153%
2051-24-3	Decachlorobiphenyl	43%	10-138%
2051-24-3	Decachlorobiphenyl	36%	10-138%

* = Outside of Control Limits.

11.2.1
11

Blank Spike Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4872-BS1	8G7917.D	1	08/01/17	CP	07/31/17	OP4872	G8G235

The QC reported here applies to the following samples:

Method: SW846 8081B

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	13.6	82	46-120
319-84-6	alpha-BHC	16.7	13.6	82	45-116
319-85-7	beta-BHC	16.7	12.4	74	42-121
58-89-9	gamma-BHC (Lindane)	16.7	12.9	77	46-118
60-57-1	Dieldrin	16.7	13.6	82	48-126
72-54-8	4,4'-DDD	16.7	14.0	84	47-120
72-55-9	4,4'-DDE	16.7	13.0	78	48-121
50-29-3	4,4'-DDT	16.7	14.3	86	45-135
72-20-8	Endrin	16.7	14.0	84	51-137
1031-07-8	Endosulfan sulfate	16.7	13.2	79	48-128
7421-93-4	Endrin aldehyde	16.7	13.1	79	46-125
959-98-8	Endosulfan-I	16.7	12.5	75	47-118
33213-65-9	Endosulfan-II	16.7	13.4	80	49-121
76-44-8	Heptachlor	16.7	13.2	79	48-120
1024-57-3	Heptachlor epoxide	16.7	12.7	76	46-122
72-43-5	Methoxychlor	16.7	13.2	79	44-136

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	75%	25-135%
877-09-8	Tetrachloro-m-xylene	76%	25-135%
2051-24-3	Decachlorobiphenyl	87%	10-156%
2051-24-3	Decachlorobiphenyl	74%	10-156%

* = Outside of Control Limits.

11.2.2
11

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4878-BS1	OA127651.D	1	08/01/17	VDT	07/31/17	OP4878	GOA4362
OP4878-BSD	OA127652.D	1	08/01/17	VDT	07/31/17	OP4878	GOA4362

The QC reported here applies to the following samples:

Method: SW846 8151

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
88-85-7	Dinoseb	133	138	104 ^a	111	83 ^a	22 ^a	10-159/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
19719-28-9	2,4-DCAA	100%	78%	10-159%
19719-28-9	2,4-DCAA	96%	78%	10-159%

(a) Reported from 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so is being used for confirmation only.

11.3.1
11

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4867-BS1	OA127699.D	1	08/02/17	VDT	07/31/17	OP4867	GOA4363
OP4867-BSD	OA127700.D	1	08/02/17	VDT	07/31/17	OP4867	GOA4363

The QC reported here applies to the following samples:

Method: SW846 8151

LA35798-5, LA35798-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
88-85-7	Dinoseb	2	0.46	23	0.85	43	60* a	10-182/58

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
19719-28-9	2,4-DCAA	97%	91%	10-179%
19719-28-9	2,4-DCAA	67%	58%	10-179%

(a) Analytical precision exceeds in-house control limits.

11.3.2
11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4878-MS	OA127678.D	1	08/02/17	VDT	07/31/17	OP4878	GOA4362
OP4878-MSD	OA127679.D	1	08/02/17	VDT	07/31/17	OP4878	GOA4362
LA35702-1	OA127655.D	1	08/01/17	VDT	07/31/17	OP4878	GOA4362

The QC reported here applies to the following samples:

Method: SW846 8151

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	LA35702-1		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits Rec/RPD
		ug/kg	Q	ug/kg	ug/kg	%	ug/kg	ug/kg	%		
88-85-7	Dinoseb	ND		120	23.2	19	123	23.3	19	0	10-156/44
Surrogate Recoveries											
19719-28-9	2,4-DCAA	26%		26%	51%		10-159%				
19719-28-9	2,4-DCAA	19%		19%	47%		10-159%				

* = Outside of Control Limits.

11.4.1
11

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4865-MS	8G7954.D	1	08/02/17	CP	07/31/17	OP4865	G8G235
OP4865-MSD	8G7955.D	1	08/02/17	CP	07/31/17	OP4865	G8G235
JC47739-14	8G7953.D	1	08/02/17	CP	07/31/17	OP4865	G8G235

The QC reported here applies to the following samples:

Method: SW846 8081B

LA35798-5, LA35798-6

CAS No.	Compound	JC47739-14		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits Rec/RPD
		ug/l	Q	ug/l	ug/l	%	ug/l	ug/l	%		
309-00-2	Aldrin	ND		0.5	0.47	94	0.5	0.50	100	6	10-157/46
319-84-6	alpha-BHC	ND		0.5	0.52	104	0.5	0.54	108	4	33-154/45
319-85-7	beta-BHC	ND		0.5	0.55	110	0.5	0.57	114	4	36-154/45
58-89-9	gamma-BHC (Lindane)	ND		0.5	0.52	104	0.5	0.54	108	4	33-154/43
12789-03-6	Chlordane	ND			ND			ND		nc	81-123/30
60-57-1	Dieldrin	ND		0.5	0.52	104	0.5	0.54	108	4	24-165/44
72-54-8	4,4'-DDD	ND		0.5	0.53	106	0.5	0.55	110	4	27-157/45
72-55-9	4,4'-DDE	ND		0.5	0.54	108	0.5	0.56	112	4	13-164/43
50-29-3	4,4'-DDT	ND		0.5	0.45	90	0.5	0.48	96	6	11-169/44
72-20-8	Endrin	ND		0.5	0.53	106	0.5	0.55	110	4	39-170/42
1031-07-8	Endosulfan sulfate	ND		0.5	0.53	106	0.5	0.55	110	4	22-164/49
7421-93-4	Endrin aldehyde	ND		0.5	0.51	102	0.5	0.53	106	4	21-176/48
959-98-8	Endosulfan-I	ND		0.5	0.49	98	0.5	0.52	104	6	23-161/44
33213-65-9	Endosulfan-II	ND		0.5	0.52	104	0.5	0.54	108	4	30-161/43
76-44-8	Heptachlor	ND		0.5	0.48	96	0.5	0.50	100	4	10-158/47
1024-57-3	Heptachlor epoxide	ND		0.5	0.51	102	0.5	0.53	106	4	29-163/43
72-43-5	Methoxychlor	ND		0.5	0.45	90	0.5	0.48	96	6	15-164/46
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC47739-14 Limits		
877-09-8	Tetrachloro-m-xylene	81%	86%	88%	13-153%	
877-09-8	Tetrachloro-m-xylene	79%	83%	90%	13-153%	
2051-24-3	Decachlorobiphenyl	86%	93%	75%	10-138%	
2051-24-3	Decachlorobiphenyl	75%	78%	66%	10-138%	

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: LA35798

Account: ALLA SGS Accutest Lafayette

Project: PPMLAM: Lazenby & Associates/South Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4872-MS	8G7919.D	1	08/01/17	CP	07/31/17	OP4872	G8G235
OP4872-MSD	8G7920.D	1	08/01/17	CP	07/31/17	OP4872	G8G235
LA35702-2	8G7918.D	1	08/01/17	CP	07/31/17	OP4872	G8G235

The QC reported here applies to the following samples:

Method: SW846 8081B

LA35798-1, LA35798-2, LA35798-3, LA35798-4

CAS No.	Compound	LA35702-2		Spike	MS	MS	Spike	MSD	MSD	RPD	Limits Rec/RPD
		ug/kg	Q	ug/kg	ug/kg	%	ug/kg	ug/kg	%		
309-00-2	Aldrin	ND		16.2	18.8	116	15.3	13.7	89	31	23-143/44
319-84-6	alpha-BHC	ND		16.2	19.5	120	15.3	13.9	91	34	18-152/47
319-85-7	beta-BHC	ND		16.2	20.3	125	15.3	14.8	96	31	7-143/48
58-89-9	gamma-BHC (Lindane)	ND		16.2	19.0	117	15.3	13.9	91	31	23-138/49
12789-03-6	Chlordane	ND			ND			ND		nc	30-150/30
60-57-1	Dieldrin	ND		16.2	19.3	119	15.3	14.2	93	30	14-154/46
72-54-8	4,4'-DDD	ND		16.2	18.2	112	15.3	14.1	92	25	18-149/51
72-55-9	4,4'-DDE	ND		16.2	20.0	123	15.3	14.6	95	31	10-154/49
50-29-3	4,4'-DDT	ND		16.2	20.6	127	15.3	14.8	96	33	10-170/50
72-20-8	Endrin	ND		16.2	22.6	139	15.3	16.0	104	34	18-173/49
1031-07-8	Endosulfan sulfate	ND		16.2	19.7	121	15.3	13.8	90	35	19-132/50
7421-93-4	Endrin aldehyde	ND		16.2	15.9	98	15.3	11.9	78	29	10-160/53
959-98-8	Endosulfan-I	ND		16.2	17.2	106	15.3	12.7	83	30	18-143/46
33213-65-9	Endosulfan-II	ND		16.2	19.3	119	15.3	14.2	93	30	21-132/46
76-44-8	Heptachlor	ND		16.2	18.6	115	15.3	13.7	89	30	22-146/46
1024-57-3	Heptachlor epoxide	ND		16.2	18.0	111	15.3	13.1	85	32	21-151/45
72-43-5	Methoxychlor	ND		16.2	20.1	124	15.3	14.8	96	30	11-166/50
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	LA35702-2	Limits
877-09-8	Tetrachloro-m-xylene	112%	83%	94%	25-135%
877-09-8	Tetrachloro-m-xylene	103%	72%	92%	25-135%
2051-24-3	Decachlorobiphenyl	121%	92%	100%	10-156%
2051-24-3	Decachlorobiphenyl	98%	75%	80%	10-156%

* = Outside of Control Limits.

11.4.3
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