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

north louisiana economic partnership

CSRS
IMAGINE SHAPE DELIVER

Calhoun Technology Park - North Site Phase II Environmental Site Assessment

August 25, 2017

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

Re: Phase II Environmental Site Assessment Report
Calhoun Technology Park – North Tract
321 US Highway 80 East
Calhoun, Louisiana
Ouachita Parish
PPM Project No. 11452005

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 – NORTH TRACT
321 US HIGHWAY 80 EAST
CALHOUN, LOUISIANA
OUACHITA PARISH

PPM PROJECT NO. 11452005

AUGUST 2017

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

AT

CALHOUN TECHNOLOGY PARK – NORTH 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

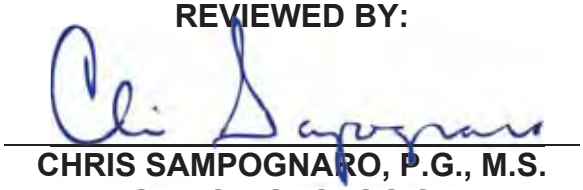
PPM PROJECT NO. 11452005

AUGUST 2017

PREPARED BY:

CHASITY REED
SENIOR TOXICOLOGIST

REVIEWED BY:



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

PPM CONSULTANTS, INC.
1600 LAMY LANE
MONROE, LOUISIANA 71201
(318) 323-7270

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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 – North 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 25 and 26, 2017. Utilizing direct push technology (Geoprobe®), 13 probe borings, P-1 through P-9, and NW, NE, SE, and SW were advanced to an approximate depth of 20 feet below ground surface (BGS). Groundwater was not encountered during the advancement of the probe borings; therefore, temporary wells were not installed in the probe borings.

During the Phase II ESA, soil samples collected for the probe borings were analyzed as follows: one soil sample from each of the two probe borings located near the Historical Underground Storage Tank (UST) pit were selected for laboratory analysis of Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) per Method 8260B, Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-G) and Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-D) per Method 8015. One soil sample from each of the three probe borings located near the Pesticide and Chemical Storage were 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 8270B. One soil sample from each of the two probe borings located near the Treatment Ponds were selected for laboratory analysis of RCRA Metals per Method 6010B, Pesticides per Method 8081A, Herbicides per Method 8151A, VOCs per Method 8260B, SVOCs per Method 8270B. One soil sample from each of the two probe boring located near the Linn Energy Gas Well were selected for laboratory analysis of DNR 29-B, SVOCs per Method 8270B, TPH-G, TPH-D, and Total Petroleum Hydrocarbons – Oil Range Organics (TPH-O) per Method 8015. The four borings (NW, NE, SE, and SW) advanced near the former construction debris pits were screened for construction debris. No samples were submitted for laboratory analysis. Concrete debris was found in boring SW. The other three borings exhibited natural soil formation.

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 and/or Louisiana Department of Natural Resources (LDNR) 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.
- Concrete contractor debris was found in one boring (SW) advanced near the former construction debris pits.

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 – North 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, a scope of work was developed 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 13 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, confining layer at the bottom of the groundwater bearing unit, and other conditions observed in the field.
- One soil sample from each of the two probe borings located near the Historical Underground Storage Tank (UST) pit will be selected for laboratory analysis of Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) per Method 8260B, Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-G) and Total Petroleum Hydrocarbons – Diesel Range Organics (TPH-D) per Method 8015.
- One soil sample from each of the three probe borings located near the Pesticide and Chemical Storage 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 8270B.

- One soil sample from each of the two probe borings located near the Treatment Ponds will be selected for laboratory analysis of RCRA Metals per Method 6010B, Pesticides per Method 8081A, Herbicides per Method 8151A, VOCs per Method 8260B, SVOCs per Method 8270B.
- One soil sample from each of the two probe boring located near the Linn Energy Gas Well will be selected for laboratory analysis of DNR 29-B, SVOCs per Method 8270B, and TPH-G and TPH-D per Method 8015.
- The borings advanced near the former construction debris pits will be screened for construction debris. No samples will be submitted for laboratory analysis.
- 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 ach of the two probe borings located near the Historical UST pit will be selected for laboratory analysis of BTEX per Method 8260B, TPH-G and TPH-D per Method 8015.
- One groundwater sample from each of the three probe borings located near the Pesticide and Chemical Storage will be selected for laboratory analysis of Pesticides per Method 8081A, Herbicides per Method 8151A, VOCs per Method 8260B, SVOCs per Method 8270B.
- One groundwater sample from each of the two probe borings located near the Treatment Ponds will be selected for laboratory analysis of Pesticides per Method 8081A, Herbicides per Method 8151A, VOCs per Method 8260B, SVOCs per Method 8270B.
- One groundwater sample from each of the two probe boring located near the Linn Energy Gas Well will be selected for laboratory analysis of DNR 29-B (**No Metals**), SVOCs per Method 8270B, TPH-G, TPH-D, and Total Petroleum Hydrocarbons – Oil Range Organics (TPH-O) 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 241 acres in size, bordered to the north by Interstate 20 and to the south by Highway 80 East in a residential and undeveloped area of Calhoun, Louisiana. Adjoining properties include Interstate 20 right-of-way and undeveloped land to the north, undeveloped forested land to the east and southeast, the South Tract of the former LSU Agricultural Research Facility to the south, residential properties to the southwest and west. The subject property includes a total of 17 structures, along with two former pump houses, water well shed, weather station shed, and two metal water tanks. 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' 45" and Longitude 92° 20' 55". The site location is shown in **Figure 1, Site Location Map**, in **Appendix A, Figures**. Site features are shown in **Figure 2, Site/Area Map**, and **Figure 3, Building Locations**, in **Appendix A**.

4.0 SAMPLING METHODOLOGY

4.1 METHODOLOGY

PPM conducted field activities at the site on July 25 and 26, 2017. Utilizing direct push technology (Geoprobe®), 13 probe borings, P-1 through P-9, and NW, NE, SE, and SW were advanced to an approximate depth of 20 feet BGS. Groundwater was not encountered during the advancement of the probe borings; therefore, temporary wells were not installed in the probe borings. Four borings were advanced to approximately 20 feet BGS in the area of the debris piles. Concrete was found at 4 feet BGS in the southwest boring. All other borings in this area exhibited natural soil formation. 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

Groundwater was not encountered during the advancement of the probe borings; therefore, groundwater samples were not collected.

4.4 SAMPLE PRESERVATION AND DISPATCH

Soil samples retained for laboratory analysis were immediately placed on ice and preserved at 4^{o}C. These samples were also labeled to document the appropriate project number, probe boring number, sample number, well number, project name, project location, date, time sampled, and analyses requested. The samples were subsequently sealed in insulated coolers and shipped via common courier to 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 silty clay to sand. Groundwater was not encountered in the probe borings. A detailed lithologic description of each boring is provided in **Appendix B, Geologic Boring Logs**.

5.2 LABORATORY RESULTS

5.2.1 Soil Analytical Results

Constituents detected in soil samples include arsenic, barium, chromium, and lead. These concentrations were below the LDEQ RECAP Screening Standards and/or LDNR 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. These concentrations were below the LDNR Standards. Laboratory analytical results for soil are summarized in **Tables C-1A through C-1C, Soil Analytical Summary**, in **Appendix C, Tables**. Complete soil analytical results are presented in **Appendix D, Laboratory Analytical Report**.

6.0 CONCLUSIONS AND RECOMMENDATIONS

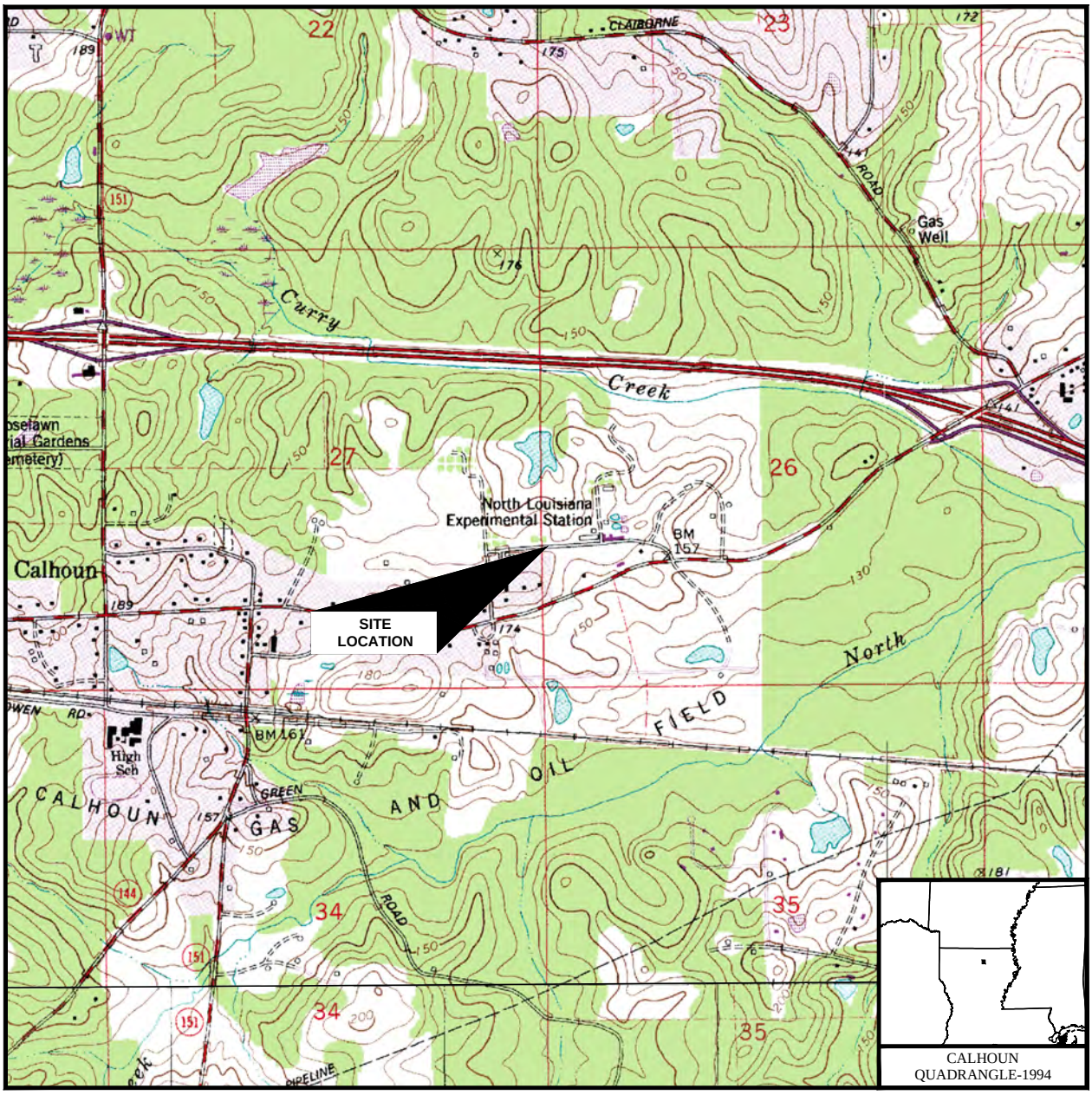
Based on the findings from the Phase II ESA, PPM concludes the following:

- Laboratory analysis of soil samples revealed all constituent concentrations below laboratory detection limits and/or RECAP Screening Standards and/or LDNR 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.
- Concrete contractor debris was found in one boring (SW) advanced near the former construction debris pits.

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

APPENDICES

APPENDIX A – FIGURES



SCALE: 1 : 24,000

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

PPM CONSULTANTS, INC. www.ppmco.com		LAZENBY AND ASSOCIATES, INC. **CALHOUN TECHNOLOGY PARK - NORTH TRACT** 321 U.S. HIGHWAY 80 CALHOUN, LOUISIANA	SITE LOCATION MAP
DRAWN BY: BWH	DRAWN DATE: 08/25/17		FIGURE NUMBER 1
PROJECT NUMBER: 11452005	BILLING GROUP: ESAII		

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PPM CONSULTANTS, INC. www.ppmco.com	
DRAWN BY: BWH	DRAWN DATE: 08/25/17
PROJECT NUMBER: 11452005	BILLING GROUP: ESAII

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

SITE / AREA MAP

FIGURE NUMBER
2

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www.ppmco.com

DRAWN BY:	DRAWN DATE:
BWH	08/25/17
PROJECT NUMBER:	BILLING GROUP:
11452005	ESAII

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

BUILDING LOCATIONS

FIGURE NUMBER
3

APPENDIX B – GEOLOGIC BORING LOGS

LOG OF BORING: P-1

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-25-17/ 08:20
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	Surf. Elev.	Water Level	USCS	GRAPHIC	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery	Depth in Feet
0					ASPHALT					0
			CL		CLAYEY SILT, with Sand, low plasticity, soft, homogeneous, moist, reddish brown	1	NA	0	100	
						2	NA	0	100	
5						3	NA	0	100	5
						4	NA	0	100	
			SC		CLAYEY SAND, fine, homogeneous, moist, reddish brown	5	NA	0*	100	
10						6	NA	0	100	10
			SM		SILTY SAND, fine, homogeneous, moist, reddish brown	7	NA	0	100	
15						8	NA	0	100	15
			SP		SAND, poorly graded, fine, homogeneous, moist, brown	9	NA	0	100	
					SAND, poorly graded, fine, homogeneous, moist, pink	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.

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LOG OF BORING: P-2

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-25-17/ 09:10
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	USCS	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery
0		CONCRETE				
	ML	SANDY SILT, non-plastic, soft, homogeneous, moist, brown	1	NA	0	100
			2	NA	0	100
5		CLAYEY SILT, with Sand, low plasticity, soft, homogeneous, moist, reddish brown	3	NA	0	100
			4	NA	0	100
	SC	CLAYEY SAND, fine, homogeneous, moist, reddish brown	5	NA	0*	100
10			6	NA	0	100
	SM	SILTY SAND, fine, homogeneous, moist, reddish brown	7	NA	0	100
15			8	NA	0	100
	SP	SAND, well graded, fine, homogeneous, moist, reddish brown	9	NA	0	100
20			10	NA	0*	100
		(Boring terminated @ 20.0 BGS)				

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.

08-14-2017 \\ppmmonroe\PPM_Projects_Overhead\Employees\Jon Roger\Boring Log Backup\11452005\p2.bor

LOG OF BORING: P-3

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-25-17/ 10:10
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	Surf. Elev.	Water Level	USCS	GRAPHIC	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery	Depth in Feet
0					GRASS					0
			ML		SANDY SILT, non-plastic, soft, homogeneous, moist, reddish brown	1	NA	0	100	
						2	NA	0	100	
5						3	NA	0	100	5
						4	NA	0	100	
						5	NA	0*	100	
10						6	NA	0	100	10
			SP		SAND, poorly graded, fine, homogeneous, moist, light brown	7	NA	0	100	
15						8	NA	0	100	15
						9	NA	0	100	
						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.

08-14-2017 \\ppmmonroe\PPM_Projects_Overhead\Employees\Jon Roger\Boring Log Backup\11452005\p3.bor

LOG OF BORING: P-4

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-25-17/ 10:55
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	Surf. Elev.	Water Level	USCS	GRAPHIC	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery	Depth in Feet
0					GRASS					0
					SANDY SILT, non-plastic, soft, homogeneous, dry, brown	1	NA	0	100	
					SANDY SILT, non-plastic, soft, homogeneous, moist, reddish brown	2	NA	0	100	
5						3	NA	0	100	5
						4	NA	0	100	
						5	NA	0*	100	
10			ML			6	NA	0	100	10
					SANDY SILT, non-plastic, soft, homogeneous, moist, light reddish brown	7	NA	0	100	
15						8	NA	0	100	15
						9	NA	0	100	
						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.

08-14-2017 \\ppmmonroe\PPM_Projects_Overhead\Employees\Jon Roger\Boring Log Backup\11452005\p4.bor

LOG OF BORING: P-5

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-25-17/ 11:35
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	USCS	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery
0		GRASS				
		SANDY SILT, non-plastic, firm, homogeneous, dry, brown	1	NA	0	100
		SANDY SILT, non-plastic, soft, homogeneous, moist, reddish brown	2	NA	0	100
5	ML		3	NA	0	100
		CLAYEY SILT, low plasticity, soft, homogeneous, moist, brown	4	NA	0	100
			5	NA	0*	100
10	CL	SILTY CLAY, moderate plasticity, firm, homogeneous, moist, reddish brown	6	NA	0	100
	ML	SANDY SILT, non-plastic, soft, homogeneous, moist, reddish brown	7	NA	0	100
15	CL	SANDY CLAY, moderate plasticity, firm, homogeneous, moist, light brown brown and gray reddish brown	8	NA	0	100
	SP	SAND, poorly graded, fine, homogeneous, moist, reddish brown	9	NA	0	100
			10	NA	0*	100
20		*(Boring terminated @ 20.0 BGS)*				

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.

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LOG OF BORING: P-6

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-25-17/ 13:55
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	USCS	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery
0		GRASS				
	ML	SANDY SILT, non-plastic, soft, homogeneous, dry, brown	1	NA	0	100
		SANDY SILT, non-plastic, soft, homogeneous, moist, reddish brown	2	NA	0	100
5			3	NA	0	100
	SM	SILTY SAND, fine, homogeneous, moist, reddish brown	4	NA	0	100
			5	NA	0*	100
10			6	NA	0	100
			7	NA	0	100
15			8	NA	0	100
	SP	SAND, poorly graded, fine, homogeneous, moist, reddish brown	9	NA	0	100
			10	NA	0*	100
20		*(Boring terminated @ 20.0 BGS)*				

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.

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LOG OF BORING: P-7

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-25-17/ 14:50
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	Surf. Elev.	Water Level	USCS	GRAPHIC	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery	Depth in Feet
0					GRASS					0
					SANDY SILT, non-plastic, soft, homogeneous, dry, brown	1	NA	0	100	
					SANDY SILT, non-plastic, soft, homogeneous, moist, reddish brown	2	NA	0	100	
5						3	NA	0	100	5
						4	NA	0	100	
			ML			5	NA	0*	100	
10						6	NA	0	100	10
						7	NA	0	100	
15						8	NA	0	100	15
						9	NA	0	100	
			SP		SAND, poorly graded, fine, homogeneous, moist, reddish brown	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.

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LOG OF BORING: P-8

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-26-17/ 08:20
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	USCS	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery
0		GRASS				
	SM	SILTY SAND, fine, homogeneous, moist, brown	1	NA	0	100
	SM	SILTY SAND, fine, homogeneous, moist, gray	2	NA	0	100
5	ML	SANDY SILT, non-plastic, soft, homogeneous, moist, brown	3	NA	0	100
	ML		4	NA	0	100
	CL	SILTY CLAY, moderate plasticity, firm, homogeneous, moist, dark gray	5	NA	0*	100
10	ML	CLAYEY SILT, low plasticity, firm, homogeneous, moist, dark gray	6	NA	0	100
	ML		7	NA	0	100
15	ML		8	NA	0	100
	ML		9	NA	0	100
	ML		10	NA	0*	100
20		*(Boring terminated @ 20.0 BGS)*				

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.

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LOG OF BORING: P-9

PPM CONSULTANTS

Client / Site Information:

Client:	Lazenby & Associates
Site:	Calhoun North Tract
Location:	Calhoun, Louisiana
Agency Interest No.:	NA
PPM Project No.:	11452005
Project Type:	ESA2

Boring Information:

Date / Time:	07-26-17/ 09:20
Logged By:	Jon Roger
Drilling Company / Driller:	WHE/ Devin Dunaway
Drilling Method:	DPT
Total Boring Depth:	20 ft BGS
Initial Saturation (ft)/Date:	NA
Static GW level (ft)/Date:	NA
Surface Elevation (ft):	NA
Sampling Interval:	2 ft Continuous

Well Information:

Well Type:	NA
Well Purpose:	NA
Well Construction Date:	NA
Total Well Depth:	NA
Screened Interval:	NA
Screen Slot Size:	NA
Development Method:	NA
Gallons Purged:	NA

Water Levels
▼ Static GW level
▽ Initial Saturation

Depth in Feet	Surf. Elev.	Water Level	USCS	GRAPHIC	DESCRIPTION	Sample	Blow Count	Headspace Concentration (ppmv)	Percent Recovery	Depth in Feet
0					GRASS					0
			SM		SILTY SAND, fine, homogeneous, dry, brown	1	NA	0	100	
					SILTY SAND, fine, homogeneous, moist, brown	2	NA	0	100	
5						3	NA	0	100	5
						4	NA	0	100	
			CL		SILTY CLAY, low plasticity, soft, homogeneous, moist, light brown	5	NA	0*	100	
10					CLAYEY SILT, low plasticity, firm, homogeneous, moist, dark gray	6	NA	0	100	10
						7	NA	0	100	
15			ML			8	NA	0	100	15
						9	NA	0	100	
						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.

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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	Code	Carbon Tetrachloride
P-1	P-1/S-10	17	19	07/25/2017		0	<	0.023	<	0.23	<	0.046	<	0.093		NA	<	4.6	<	4.9		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0	<	**0.025**	<	**0.25**	<	**0.049**	<	**0.098**		NA	<	4.9		5.98		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	0.00049	<	0.0049	<	0.00098	<	0.002	<	0.00098		NA		NA	<	0.049	<	0.00098	<	0.00098	<	0.00098	<	0.00098
P-4	P-4/S-10	17	19	07/25/2017		0	<	0.00048	<	0.0048	<	0.00096	<	0.0019	<	0.00096		NA		NA	<	0.048	<	0.00096	<	0.00096	<	0.00096	<	0.00096
P-5	P-5/S-10	17	19	07/25/2017		0	<	0.00049	<	0.0049	<	0.00098	<	0.002	<	0.00098		NA		NA	<	0.049	<	0.00098	<	0.00098	<	0.00098	<	0.00098
P-6	P-6/S-10	17	19	07/25/2017		0	<	0.0005	<	0.005	<	0.001	<	0.002	<	**0.001**		NA		NA	<	0.05	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**
P-7	P-7/S-10	17	19	07/25/2017		0	<	0.00051	<	0.0051	<	0.001	<	0.002	<	**0.001**		NA		NA	<	**0.051**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**
P-8	P-8/S-10	17	19	07/26/2017		0		NA		NA		NA		NA		NA	<	**5.1**	<	4.9		NA		NA		NA		NA		NA
P-9	P-9/S-10	17	19	07/26/2017		0		NA		NA		NA		NA		NA	<	4.9		**8.68**		NA		NA		NA		NA		NA
Minimum Concentration							**<**	**0.00048**	**<**	**0.0048**	**<**	**0.00096**	**<**	**0.0019**	**<**	**0.00096**	**<**	**4.6**	**<**	**4.9**	**<**	**0.048**	**<**	**0.00096**	**<**	**0.00096**	**<**	**0.00096**	**<**	**0.00096**
Maximum Concentration							**<**	**0.025**	**<**	**0.25**	**<**	**0.049**	**<**	**0.098**	**<**	**0.001**	**<**	**5.1**		**8.68**	**<**	**0.051**	**<**	**0.001**	**<**	**0.001**	**<**	**0.001**	**<**	**0.001**
Screening Standards								**0.051**		**20**		**19**		**121**		**0.077**		**65**		**65**		**1.5**		**0.92**		**1.8**		**11**		**0.11**

Notes:
Bold RED type indicate 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	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)	Code	Dichloro-ethane,1,1-
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.0049	<	0.00098	<	0.00098	<	0.00098	<	0.00098
P-4	P-4/S-10	17	19	07/25/2017		0	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.0048	<	0.00096	<	0.00096	<	0.00096	<	0.00096
P-5	P-5/S-10	17	19	07/25/2017		0	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.0049	<	0.00098	<	0.00098	<	0.00098	<	0.00098
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	0.005	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.0051**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**
P-8	P-8/S-10	17	19	07/26/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-9	P-9/S-10	17	19	07/26/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA
Minimum Concentration							<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.0048**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**
Maximum Concentration							<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.0051**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**
Screening Standards								**3**		**0.035**		**0.3**		**1**		**0.01**		**2.1**		**29**		**5.7**		**7.5**

Notes:
Bold RED type indicate 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	Dichloro-ethane,1,2-	Code	Dichloro-ethene,1,1-	Code	Dichloro-ethene,cis,1,2-	Code	Dichloro-ethene,trans,1,2-	Code	Dichloro-propane,1,2-	Code	Dichloro-propene,1,3-	Code	Hexachloro-ethane	Code	Isobutyl alcohol	Code	Bromo-methane (Methyl Bromide)	Code	Chloro-methane (Methyl Chloride)
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.0049	<	0.098	<	0.0098	<	0.0049
P-4	P-4/S-10	17	19	07/25/2017		0	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.0048	<	0.096	<	0.0096	<	0.0048
P-5	P-5/S-10	17	19	07/25/2017		0	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.0049	<	0.098	<	0.0098	<	0.0049
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	0.005	<	**0.1**	<	**0.01**	<	0.005
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.0051**	<	**0.1**	<	**0.01**	<	**0.0051**
P-8	P-8/S-10	17	19	07/26/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-9	P-9/S-10	17	19	07/26/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
Minimum Concentration							<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.0048**	<	**0.096**	<	**0.0096**	<	**0.0048**
Maximum Concentration							<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.0051**	<	**0.1**	<	**0.01**	<	**0.0051**
Screening Standards								**0.035**		**0.085**		**0.49**		**0.77**		**0.042**		**0.04**		**2.2**		**30**		**0.04**		**0.1**

Notes:
Bold RED type indicate 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	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-	Code	Trichloro-ethene
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	0.0049	<	0.012	<	0.012	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098
P-4	P-4/S-10	17	19	07/25/2017		0	<	0.0048	<	0.012	<	0.012	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096	<	0.00096
P-5	P-5/S-10	17	19	07/25/2017		0	<	0.0049	<	0.012	<	0.012	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098	<	0.00098
P-6	P-6/S-10	17	19	07/25/2017		0	<	0.005	<	**0.013**	<	**0.013**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.0051**	<	**0.013**	<	**0.013**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**
P-8	P-8/S-10	17	19	07/26/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-9	P-9/S-10	17	19	07/26/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
Minimum Concentration							<	**0.0048**	<	**0.012**	<	**0.012**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**	<	**0.00096**
Maximum Concentration							<	**0.0051**	<	**0.013**	<	**0.013**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**	<	**0.001**		**0.001**	<	**0.001**
Screening Standards								**0.017**		**5**		**6.4**		**11**		**0.046**		**0.006**		**0.18**		**4**		**0.058**		**0.073**

Notes:
Bold RED type indicate 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	Trichlorofluoro-methane	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	Tetrachloro phenol, 2,3,4,6-	Code	Trichloro phenol, 2,4,5-
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	0.00098	<	0.00098	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
P-4	P-4/S-10	17	19	07/25/2017		0	<	0.00096	<	0.00096	<	**0.17**	<	**0.17**	<	**0.17**	<	0.65	<	0.65	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
P-5	P-5/S-10	17	19	07/25/2017		0	<	0.00098	<	0.00098	<	**0.17**	<	**0.17**	<	**0.17**	<	0.65	<	0.65	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.001**	<	**0.001**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.001**	<	**0.001**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
P-8	P-8/S-10	17	19	07/26/2017		0		NA		NA	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
P-9	P-9/S-10	17	19	07/26/2017		0		NA		NA	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
Minimum Concentration							<	**0.00096**	<	**0.00096**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.65**	<	**0.65**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
Maximum Concentration							<	**0.001**	<	**0.001**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**
Screening Standards								**37**		**0.013**		**1.4**		**12**		**20**		**1.7**		**2.6**		**1.7**		**11**		**31**		**320**

Notes:
Bold RED type indicate 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, 2,4,6-	Code	Acenaphthene	Code	Acenaphthylene	Code	Aniline	Code	Anthracene	Code	Benz(a)-anthracene	Code	Benzo(a)-pyrene	Code	Benzo(b)-fluoranthene	Code	Biphenyl,1,1-	Code	Benzo(k)-fluoranthene
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.05**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.01**
P-4	P-4/S-10	17	19	07/25/2017		0	<	**0.17**	<	0.0099	<	0.0099	<	**0.05**	<	0.0099	<	0.0099	<	0.0099	<	0.0099	<	**0.17**	<	0.0099
P-5	P-5/S-10	17	19	07/25/2017		0	<	**0.17**	<	0.0099	<	0.0099	<	**0.05**	<	0.0099	<	0.0099	<	0.0099	<	0.0099	<	**0.17**	<	0.0099
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.05**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.01**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.05**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.01**
P-8	P-8/S-10	17	19	07/26/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.05**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.01**
P-9	P-9/S-10	17	19	07/26/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.05**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.01**
Minimum Concentration							<	**0.17**	<	**0.0099**	<	**0.0099**	<	**0.05**	<	**0.0099**	<	**0.0099**	<	**0.0099**	<	**0.0099**	<	**0.17**	<	**0.0099**
Maximum Concentration							<	**0.17**	<	**0.01**	<	**0.01**	<	**0.05**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.01**
Screening Standards								**1.3**		**215**		**88**		**0.065**		**121**		**2.9**		**0.33**		**2.9**		**190**		**29**

Notes:
Bold RED type indicate 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	Butyl benzyl phthalate	Code	Chloro aniline,p-	Code	Bis(2-chloroethyl) ether	Code	Bis(2-chloroiso propyl)ether	Code	Chloro naphthalene,2-	Code	Chrysene	Code	Dibenz(a,h)-anthracene	Code	Dibenzo-furan	Code	Dichloro benzidine, 3,3-	Code	Diethyl phthalate
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**	<	**0.17**
P-4	P-4/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	0.0099	<	0.0099	<	**0.17**	<	**0.17**	<	**0.17**
P-5	P-5/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	0.0099	<	0.0099	<	**0.17**	<	**0.17**	<	**0.17**
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**	<	**0.17**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**	<	**0.17**
P-8	P-8/S-10	17	19	07/26/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**	<	**0.17**
P-9	P-9/S-10	17	19	07/26/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**	<	**0.17**
Minimum Concentration							<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.0099**	<	**0.0099**	<	**0.17**	<	**0.17**	<	**0.17**
Maximum Concentration							<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**	<	**0.17**
Screening Standards								**220**		**1.5**		**0.33**		**0.8**		**500**		**76**		**0.33**		**24**		**1.8**		**360**

Notes:
Bold RED type indicate 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	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	Code	Hexachloro butadiene
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
P-4	P-4/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	0.0099	<	0.0099	<	**0.17**	<	**0.17**
P-5	P-5/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	0.0099	<	0.0099	<	**0.17**	<	**0.17**
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
P-8	P-8/S-10	17	19	07/26/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
P-9	P-9/S-10	17	19	07/26/2017		0	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
Minimum Concentration							<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.0099**	<	**0.0099**	<	**0.17**	<	**0.17**
Maximum Concentration							<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
Screening Standards								**1500**		**3500**		**0.25**		**1**		**0.39**		**79**		**1213**		**226**		**2**		**5.5**

Notes:
Bold RED type indicate 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 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-	Code	Nitro benzene	Code	Nitrosodi-n-propylamine,N-
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	**0.66**	<	**0.01**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.66**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**
P-4	P-4/S-10	17	19	07/25/2017		0	<	0.65	<	0.0099	<	**0.17**	<	0.0099	<	0.0099	<	0.65	<	0.65	<	0.65	<	**0.17**	<	**0.17**
P-5	P-5/S-10	17	19	07/25/2017		0	<	0.65	<	0.0099	<	**0.17**	<	0.0099	<	0.0099	<	0.65	<	0.65	<	0.65	<	**0.17**	<	**0.17**
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.66**	<	**0.01**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.66**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.66**	<	**0.01**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.66**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**
P-8	P-8/S-10	17	19	07/26/2017		0	<	**0.66**	<	**0.01**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.66**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**
P-9	P-9/S-10	17	19	07/26/2017		0	<	**0.66**	<	**0.01**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.66**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**
Minimum Concentration							<	**0.65**	<	**0.0099**	<	**0.17**	<	**0.0099**	<	**0.0099**	<	**0.65**	<	**0.65**	<	**0.65**	<	**0.17**	<	**0.17**
Maximum Concentration							<	**0.66**	<	**0.01**	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.66**	<	**0.66**	<	**0.66**	<	**0.17**	<	**0.17**
Screening Standards								**9.4**		**2.9**		**0.56**		**1.7**		**1.5**		**1.7**		**1.7**		**1.7**		**0.33**		**0.33**

Notes:
Bold RED type indicate 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	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-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
P-4	P-4/S-10	17	19	07/25/2017		0	<	**0.17**	<	0.0099	<	0.0099	<	**0.17**	<	**0.17**
P-5	P-5/S-10	17	19	07/25/2017		0	<	**0.17**	<	0.0099	<	0.0099	<	**0.17**	<	**0.17**
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
P-8	P-8/S-10	17	19	07/26/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
P-9	P-9/S-10	17	19	07/26/2017		0	<	**0.17**	<	**0.01**	<	**0.01**	<	**0.17**	<	**0.17**
Minimum Concentration							**<**	**0.17**	**<**	**0.0099**	**<**	**0.0099**	**<**	**0.17**	**<**	**0.17**
Maximum Concentration							**<**	**0.17**	**<**	**0.01**	**<**	**0.01**	**<**	**0.17**	**<**	**0.17**
Screening Standards								**2.1**		**665**		**1101**		**6.9**		**14**

Notes:
Bold RED type indicate 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	Dinoseb	Code	Aldrin	Code	Hexa-chlorocyclo-hexane,alpha	Code	Hexa-chlorocyclo-hexane,beta	Code	Hexa-chlorocyclo-hexane,gamma	Code	Chlordane	Code	Dieldrin	Code	DDD	Code	DDE	Code	DDT	Code	Endrin
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	0.016	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.03	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006
P-4	P-4/S-10	17	19	07/25/2017		0	<	0.016	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.03	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006
P-5	P-5/S-10	17	19	07/25/2017		0	<	0.016	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.03	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006
P-6	P-6/S-10	17	19	07/25/2017		0	<	0.016	<	**0.00063**	<	**0.00063**	<	**0.00063**	<	**0.00063**	<	**0.032**	<	**0.00063**	<	**0.00063**	<	**0.00063**	<	**0.00063**	<	**0.00063**
P-7	P-7/S-10	17	19	07/25/2017		0	<	**0.017**	<	0.00062	<	0.00062	<	0.00062	<	0.00062	<	0.031	<	0.00062	<	0.00062	<	0.00062	<	0.00062	<	0.00062
Minimum Concentration							**<**	**0.016**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.03**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**
Maximum Concentration							**<**	**0.017**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.032**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**
Screening Standards								**0.14**		**0.13**		**0.006**		**0.016**		**0.033**		**10**		**0.15**		**1.5**		**2**		**12**		**2.6**

Notes:
Bold RED type indicate 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	Endosulfan sulfate	Code	Endrin aldehyde	Code	Endosulfan-I	Code	Endosulfan-II	Code	Heptachlor	Code	Heptachlor epoxide	Code	Methoxychlor	Code	Toxaphene	Code	Arsenic	Code	Barium	Code	Cadmium
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0012	<	0.015	<	**5**		8.1	<	**2.5**
P-4	P-4/S-10	17	19	07/25/2017		0	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0012	<	0.015	<	4.9		**17.1**	<	**2.5**
P-5	P-5/S-10	17	19	07/25/2017		0	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0006	<	0.0012	<	0.015	<	4.8		12.1	<	2.4
P-6	P-6/S-10	17	19	07/25/2017		0	<	**0.00063**	<	**0.00063**	<	**0.00063**	<	**0.00063**	<	**0.00063**	<	**0.00063**	<	**0.0013**	<	**0.016**	<	**5**		9.3	<	**2.5**
P-7	P-7/S-10	17	19	07/25/2017		0	<	0.00062	<	0.00062	<	0.00062	<	0.00062	<	0.00062	<	0.00062	<	0.0012	<	**0.016**	<	**5**		8.6	<	**2.5**
Minimum Concentration							**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0006**	**<**	**0.0012**	**<**	**0.015**	**<**	**4.8**		**8.1**	**<**	**2.4**
Maximum Concentration							**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.00063**	**<**	**0.0013**	**<**	**0.016**	**<**	**5**		**17.1**	**<**	**2.5**
Screening Standards								**-**		**-**		**-**		**-**		**0.035**		**0.26**		**380**		**2.2**		**12**		**2000**		**20**

Notes:
Bold RED type indicate 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	Chromium(VI)	Code	Lead	Code	Mercury (inorganic)	Code	Selenium	Code	Silver
P-1	P-1/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA
P-2	P-2/S-10	17	19	07/25/2017		0		NA		NA		NA		NA		NA
P-3	P-3/S-10	17	19	07/25/2017		0	<	5	<	5	<	**0.08**	<	**5**	<	**5**
P-4	P-4/S-10	17	19	07/25/2017		0		**8.8**		**8.9**	<	0.071	<	4.9	<	4.9
P-5	P-5/S-10	17	19	07/25/2017		0	<	4.8		5.9	<	0.067	<	4.8	<	4.8
P-6	P-6/S-10	17	19	07/25/2017		0	<	5		6.3	<	**0.08**	<	**5**	<	**5**
P-7	P-7/S-10	17	19	07/25/2017		0	<	5	<	5	<	0.074	<	**5**	<	**5**
Minimum Concentration							**<**	**4.8**	**<**	**5**	**<**	**0.067**	**<**	**4.8**	**<**	**4.8**
Maximum Concentration								**8.8**		**8.9**		**0.08**	**<**	**5**	**<**	**5**
Screening Standards								**100**		**100**		**4**		**20**		**100**

Notes:
Bold RED type indicate 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-1C
SOIL ANALYTICAL SUMMARY 29B PARAMETERS

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Arsenic (ppm)	Code	Barium (ppm)	Code	Cadmium (ppm)	Code	Chromium (ppm)	Code	Lead (ppm)	Code	Mercury (inorganic) (ppm)	Code	Selenium (ppm)	Code	Silver (ppm)	Code	Zinc (ppm)	Code	Calcium (ppm)	Code	Magnesium (ppm)	Code	Sodium (ppm)
P-8	P-8/S-10	17	19	07/26/2017		0		**7.9**	<	**100**	<	**1.3**		**9.2**		**15**		**0.11**	<	**2.5**	<	**2.5**		**87**		**798**		**198**		**125**
P-9	P-9/S-10	17	19	07/26/2017		0		5.6	<	**100**	<	**1.3**		7.4		8.4		0.085	<	**2.5**	<	**2.5**		67.8		22.1		4.54	<	10
Minimum Concentration								**5.6**	<	**100**	<	**1.3**		**7.4**		**8.4**		**0.085**	<	**2.5**	<	**2.5**		**67.8**		**22.1**		**4.54**	<	**10**
Maximum Concentration								**7.9**	<	**100**	<	**1.3**		**9.2**		**15**		**0.11**	<	**2.5**	<	**2.5**		**87**		**798**		**198**		**125**
LDNR Standards								**10**		**20,000**		**10**		**500**		**500**		**10**		**10**		**200**		**500**		**-**		**-**		**-**

Notes:
Bold RED type indicate concentration exceeds the LDNR Standard.
Bold BLUE type indicates highest concentration for each COC.
NA - Not Analyzed for Parameter

TABLE C-1C
SOIL ANALYTICAL SUMMARY 29B PARAMETERS

Boring ID	Sample ID	Top Interval (ft)	Bottom Interval (ft)	Sample Date	Code	Headspace	Code	Percent Moisture (%)	Code	Sodium Adsorption Ratio	Code	CEC Na	Code	Extract Na	Code	Cation Exchange Capacity (meq/100g)	Code	Extractable Sodium (meq/100g)	Code	Soluble Sodium (meq/100g)	Code	Percent Saturation (%)	Code	Exchangeable Sodium (%)	Code	Electrical Conductivity (mmhos/cm)	Code	pH (su)	Code	Oil and Grease (%)
P-8	P-8/S-10	17	19	07/26/2017		0		**28.4**		**1.03**		**336**	<	**10**		**29.2**	<	**0.87**		**0.3**		54.9		**0.445**		**2.7**		**6.68**	<	0.01
P-9	P-9/S-10	17	19	07/26/2017		0		22.3		0.168		327	<	**10**		28.4	<	**0.87**	<	0.024		**55.4**	<	0.1		1.6		6.3		**0.028**
Minimum Concentration								**22.3**		**0.168**		**327**	<	**10**		**28.4**	<	**0.87**	<	**0.024**		**54.9**	<	**0.1**		**1.6**		**6.3**		**0.01**
Maximum Concentration								**28.4**		**1.03**		**336**	<	**10**		**29.2**	<	**0.87**		**0.3**		**55.4**		**0.445**		**2.7**		**6.68**		**0.028**
LDNR Standards								**-**	<	**14**		**-**		**-**		**-**		**-**		**-**		**-**		**25**		**-**		**-**	<	**3**

Notes:
Bold RED type indicate concentration exceeds the LDNR Standard.
Bold BLUE type indicates highest concentration for each COC.
NA - Not Analyzed for Parameter

APPENDIX D – LABORATORY ANALYTICAL REPORT

e-Hardcopy 2.0
Automated Report

Technical Report for

PPM Consultants

Lazenby & Associates/North Tract-Calhoun, LA

11452005

SGS Accutest Job Number: LA35797

Sampling Dates: 07/25/17 - 07/26/17

Report to:

PPM Consultants
1600 Lamy Lane
Monroe, LA 71201
kevin.thompson@ppmco.com; lauren.gainous@ppmco.com;
Chris.Sampognaro@ppmco.com; jon.roger@ppmco.com;
ATTN: Chris Sampognaro

Total number of pages in report: **134**

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), NC(487), SC(73004001), NJ(LA007), TX(T104704186-15-7), WV(257)

Sections: 1 2 3 4 5 6 7 8 9 10 11 12

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Sample Summary

PPM Consultants

Job No: LA35797

Lazenby & Associates/North Tract-Calhoun, LA
Project No: 11452005

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
LA35797-1	07/25/17	09:00	JR	07/28/17	SO	Soil	P-1/S-10
LA35797-2	07/25/17	09:30	JR	07/28/17	SO	Soil	P-2/S-10
LA35797-3	07/25/17	10:35	JR	07/28/17	SO	Soil	P-3/S-10
LA35797-4	07/25/17	11:15	JR	07/28/17	SO	Soil	P-4/S-10
LA35797-5	07/25/17	12:10	JR	07/28/17	SO	Soil	P-5/S-10
LA35797-6	07/25/17	14:25	JR	07/28/17	SO	Soil	P-6/S-10
LA35797-7	07/25/17	15:30	JR	07/28/17	SO	Soil	P-7/S-10
LA35797-8	07/26/17	09:00	JR	07/28/17	SO	Soil	P-8/S-10
LA35797-8A	07/26/17	09:00	JR	07/28/17	SO	Soil	P-8/S-10
LA35797-8B	07/26/17	09:00	JR	07/28/17	SO	Soil	P-8/S-10
LA35797-8C	07/26/17	09:00	JR	07/28/17	SO	Soil	P-8/S-10
LA35797-8E	07/26/17	09:00	JR	07/28/17	SO	Soil	P-8/S-10
LA35797-8G	07/26/17	09:00	JR	07/28/17	SO	Soil	P-8/S-10

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

Sample Summary
(continued)

PPM Consultants

Job No: LA35797

Lazenby & Associates/North Tract-Calhoun, LA
Project No: 11452005

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
LA35797-9	07/26/17	09:50	JR	07/28/17	SO	Soil	P-9/S-10
LA35797-9A	07/26/17	09:50	JR	07/28/17	SO	Soil	P-9/S-10
LA35797-9B	07/26/17	09:50	JR	07/28/17	SO	Soil	P-9/S-10
LA35797-9C	07/26/17	09:50	JR	07/28/17	SO	Soil	P-9/S-10
LA35797-9E	07/26/17	09:50	JR	07/28/17	SO	Soil	P-9/S-10
LA35797-9G	07/26/17	09:50	JR	07/28/17	SO	Soil	P-9/S-10

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

Summary of Hits

Job Number: LA35797
Account: PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA
Collected: 07/25/17 thru 07/26/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
LA35797-1	**P-1/S-10**					
No hits reported in this sample.						
LA35797-2	**P-2/S-10**					
TPH-DRO (C10-C28)		5.98	5.0		mg/kg	SW846 8015C
LA35797-3	**P-3/S-10**					
Barium		8.1	5.0		mg/kg	SW846 6010C
LA35797-4	**P-4/S-10**					
Barium		17.1	4.9		mg/kg	SW846 6010C
Chromium		8.8	4.9		mg/kg	SW846 6010C
Lead		8.9	4.9		mg/kg	SW846 6010C
LA35797-5	**P-5/S-10**					
Barium		12.1	4.8		mg/kg	SW846 6010C
Lead		5.9	4.8		mg/kg	SW846 6010C
LA35797-6	**P-6/S-10**					
Barium		9.3	5.0		mg/kg	SW846 6010C
Lead		6.3	5.0		mg/kg	SW846 6010C
LA35797-7	**P-7/S-10**					
Barium		8.6	5.0		mg/kg	SW846 6010C
LA35797-8	**P-8/S-10**					
No hits reported in this sample.						
LA35797-8A	**P-8/S-10**					
Calcium		798	2.0		mg/l	SW846 6010C
Magnesium		198	2.0		mg/l	SW846 6010C
Sodium		125	10		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		1.03			ratio	LADNR29B

Summary of Hits

Job Number: LA35797
Account: PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA
Collected: 07/25/17 thru 07/26/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
LA35797-8B	**P-8/S-10**					
CEC Na		336000	50000		ug/l	SW846 7000B
Cation Exchange Capacity [b]		29.2	4.3		meq/100g	LADNR 29B/SW846 700B
Soluble Sodium [c]		0.30	0.024		meq/100g	LADNR 29B/SW846 700B
Percent Saturation		54.9			%	LADNR 29B
Exchangeable Sodium % [d]		0.445	0.10		%	LADNR 29B
Electrical Conductivity		2.7	1.0		mmhos/cm	LADNR 29B
pH		6.68			su	SW846 9045D
LA35797-8C	**P-8/S-10**					
No hits reported in this sample.						
LA35797-8E	**P-8/S-10**					
No hits reported in this sample.						
LA35797-8G	**P-8/S-10**					
Arsenic		7.9	2.5		mg/kg	SW846 6010C
Chromium		9.2	2.5		mg/kg	SW846 6010C
Lead		15.0	2.5		mg/kg	SW846 6010C
Mercury		0.11	0.077		mg/kg	SW846 7471B
Zinc		87.0	13		mg/kg	SW846 6010C
LA35797-9	**P-9/S-10**					
TPH-DRO (C10-C28)		8.68	5.0		mg/kg	SW846 8015C
LA35797-9A	**P-9/S-10**					
Calcium		22.1	2.0		mg/l	SW846 6010C
Magnesium		4.54	2.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.168			ratio	LADNR29B
LA35797-9B	**P-9/S-10**					
CEC Na		327000	50000		ug/l	SW846 7000B
Cation Exchange Capacity [b]		28.4	4.3		meq/100g	LADNR 29B/SW846 700B
Percent Saturation		55.4			%	LADNR 29B
Electrical Conductivity		1.6	1.0		mmhos/cm	LADNR 29B
pH		6.30			su	SW846 9045D

Summary of Hits

Job Number: LA35797
Account: PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA
Collected: 07/25/17 thru 07/26/17

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
LA35797-9C	**P-9/S-10**					
Oil And Grease		0.028	0.010		%	LANDR 29B
LA35797-9E	**P-9/S-10**					
No hits reported in this sample.						
LA35797-9G	**P-9/S-10**					
Arsenic		5.6	2.5		mg/kg	SW846 6010C
Chromium		7.4	2.5		mg/kg	SW846 6010C
Lead		8.4	2.5		mg/kg	SW846 6010C
Mercury		0.085	0.074		mg/kg	SW846 7471B
Zinc		67.8	13		mg/kg	SW846 6010C

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]
(b) Calculated as: (CEC Na mg/l from flame * Final vol) / (Init wgt * 22.99 * 10)
(c) Calculated as: (SAR Na mg/l from ICP * PSAT) / (22.99 * 1000)
(d) Calculated as: ((Extractable Sodium - Soluble Sodium) * 100) / Cation Exchange Capacity

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	P-1/S-10		
Lab Sample ID:	LA35797-1	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2J0040377.D	1	08/02/17 09:29	MJ	n/a	n/a	V2J1176
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.4 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.023	mg/kg	
108-88-3	Toluene	ND	0.23	mg/kg	
100-41-4	Ethylbenzene	ND	0.046	mg/kg	
1330-20-7	Xylene (total)	ND	0.093	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%		59-143%
2037-26-5	Toluene-D8	97%		52-159%
460-00-4	4-Bromofluorobenzene	99%		38-183%

(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

Report of Analysis

Client Sample ID:	P-1/S-10		
Lab Sample ID:	LA35797-1	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8015C	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LA274849.D	1	08/04/17 18:23	SV	n/a	n/a	GLA1418
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.40 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	4.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	89%		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.

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

Client Sample ID:	P-1/S-10		
Lab Sample ID:	LA35797-1	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8015C SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S0029752.D	1	08/03/17 23:04	JT	08/03/17 10:26	OP9042	GLG535
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		31-130%

(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

Report of Analysis

Client Sample ID:	P-2/S-10		
Lab Sample ID:	LA35797-2	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2J0040378.D	1	08/02/17 09:52	MJ	n/a	n/a	V2J1176
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.025	mg/kg	
108-88-3	Toluene	ND	0.25	mg/kg	
100-41-4	Ethylbenzene	ND	0.049	mg/kg	
1330-20-7	Xylene (total)	ND	0.098	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	95%		59-143%
2037-26-5	Toluene-D8	100%		52-159%
460-00-4	4-Bromofluorobenzene	99%		38-183%

(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

Report of Analysis

Client Sample ID:	P-2/S-10		
Lab Sample ID:	LA35797-2	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8015C	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LA274851.D	1	08/04/17 18:46	SV	n/a	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
	TPH-GRO (C6-C10)	ND	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	92%		63-139%
540-36-3	1,4-Difluorobenzene	94%		52-140%

(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

Report of Analysis

Client Sample ID:	P-2/S-10		
Lab Sample ID:	LA35797-2	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8015C SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S0029753.D	1	08/03/17 23:25	JT	08/03/17 10:26	OP9042	GLG535
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	5.98	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		31-130%

(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

Report of Analysis

Client Sample ID:	P-3/S-10		
Lab Sample ID:	LA35797-3	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038135.D	1	08/02/17 16:02	PJ	n/a	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	

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

Client Sample ID:	P-3/S-10		
Lab Sample ID:	LA35797-3	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	112%		59-143%
2037-26-5	Toluene-D8	102%		52-159%
460-00-4	4-Bromofluorobenzene	99%		38-183%

(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

Report of Analysis

Client Sample ID:	P-3/S-10		
Lab Sample ID:	LA35797-3	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028170.D	1	07/31/17 15:43	IK	07/31/17 08:00	OP9015	EC1171
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	

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

Client Sample ID:	P-3/S-10		
Lab Sample ID:	LA35797-3	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	75%		15-133%
4165-62-2	Phenol-d5	77%		21-127%
118-79-6	2,4,6-Tribromophenol	74%		7-142%
4165-60-0	Nitrobenzene-d5	77%		43-128%
321-60-8	2-Fluorobiphenyl	77%		47-126%
1718-51-0	Terphenyl-d14	79%		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

Report of Analysis

Client Sample ID:	P-3/S-10		
Lab Sample ID:	LA35797-3	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8151 SW846 8151/3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	OA127719.D	1	08/03/17 13:36	ANJ	08/02/17 19:30	N:OP4944	N:GOA4364
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	20%		10-159%
19719-28-9	2,4-DCAA	20%		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
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

Client Sample ID:	P-3/S-10		
Lab Sample ID:	LA35797-3	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8081B SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	8G8061.D	1	08/03/17 11:58	ANJ	08/02/17 18:30	N:OP4954	N:G8G237
Run #2							

	Initial Weight	Final Volume
Run #1	16.7 g	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00060	mg/kg	
319-84-6	alpha-BHC	ND	0.00060	mg/kg	
319-85-7	beta-BHC	ND	0.00060	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00060	mg/kg	
12789-03-6	Chlordane	ND	0.030	mg/kg	
60-57-1	Dieldrin	ND	0.00060	mg/kg	
72-54-8	4,4'-DDD	ND	0.00060	mg/kg	
72-55-9	4,4'-DDE	ND	0.00060	mg/kg	
50-29-3	4,4'-DDT	ND	0.00060	mg/kg	
72-20-8	Endrin	ND	0.00060	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00060	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00060	mg/kg	
959-98-8	Endosulfan-I	ND	0.00060	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00060	mg/kg	
76-44-8	Heptachlor	ND	0.00060	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00060	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	51%		25-135%
877-09-8	Tetrachloro-m-xylene	49%		25-135%
2051-24-3	Decachlorobiphenyl	41%		10-156%
2051-24-3	Decachlorobiphenyl	38%		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.

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

Client Sample ID:	P-3/S-10		
Lab Sample ID:	LA35797-3	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	n/a [a]
Project:	Lazenby & Associates/North 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	8.1	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	< 5.0	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	< 0.080	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

Report of Analysis

Client Sample ID:	P-4/S-10		
Lab Sample ID:	LA35797-4	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038136.D	1	08/02/17 16:25	PJ	n/a	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

Client Sample ID:	P-4/S-10		
Lab Sample ID:	LA35797-4	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	116%		59-143%
2037-26-5	Toluene-D8	100%		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
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

Client Sample ID:	P-4/S-10		
Lab Sample ID:	LA35797-4	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028171.D	1	07/31/17 16:05	IK	07/31/17 08:00	OP9015	EC1171
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	

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

Client Sample ID:	P-4/S-10		
Lab Sample ID:	LA35797-4	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	77%		15-133%
4165-62-2	Phenol-d5	79%		21-127%
118-79-6	2,4,6-Tribromophenol	74%		7-142%
4165-60-0	Nitrobenzene-d5	79%		43-128%
321-60-8	2-Fluorobiphenyl	79%		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

Report of Analysis

Client Sample ID:	P-4/S-10		
Lab Sample ID:	LA35797-4	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8151 SW846 8151/3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	OA127720.D	1	08/03/17 14:05	ANJ	08/02/17 19:30	N:OP4944	N:GOA4364
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 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	31%		10-159%
19719-28-9	2,4-DCAA	30%		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
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

Client Sample ID:	P-4/S-10		
Lab Sample ID:	LA35797-4	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8081B SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	8G8062.D	1	08/03/17 12:13	ANJ	08/02/17 18:30	N:OP4954	N:G8G237
Run #2							

	Initial Weight	Final Volume
Run #1	16.7 g	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00060	mg/kg	
319-84-6	alpha-BHC	ND	0.00060	mg/kg	
319-85-7	beta-BHC	ND	0.00060	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00060	mg/kg	
12789-03-6	Chlordane	ND	0.030	mg/kg	
60-57-1	Dieldrin	ND	0.00060	mg/kg	
72-54-8	4,4'-DDD	ND	0.00060	mg/kg	
72-55-9	4,4'-DDE	ND	0.00060	mg/kg	
50-29-3	4,4'-DDT	ND	0.00060	mg/kg	
72-20-8	Endrin	ND	0.00060	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00060	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00060	mg/kg	
959-98-8	Endosulfan-I	ND	0.00060	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00060	mg/kg	
76-44-8	Heptachlor	ND	0.00060	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00060	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	68%		25-135%
877-09-8	Tetrachloro-m-xylene	58%		25-135%
2051-24-3	Decachlorobiphenyl	59%		10-156%
2051-24-3	Decachlorobiphenyl	42%		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.

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

Client Sample ID:	P-4/S-10		
Lab Sample ID:	LA35797-4	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.9	4.9	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Barium	17.1	4.9	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	8.8	4.9	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Lead	8.9	4.9	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Mercury	< 0.071	0.071	mg/kg	1	08/01/17	08/02/17	RT	SW846 7471B [2]	SW846 7471A [3]
Selenium	< 4.9	4.9	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Silver	< 4.9	4.9	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

Client Sample ID:	P-5/S-10		
Lab Sample ID:	LA35797-5	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038137.D	1	08/02/17 16:48	PJ	n/a	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	

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

Client Sample ID:	P-5/S-10		
Lab Sample ID:	LA35797-5	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	115%		59-143%
2037-26-5	Toluene-D8	102%		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
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

Client Sample ID:	P-5/S-10		
Lab Sample ID:	LA35797-5	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028172.D	1	07/31/17 16:27	IK	07/31/17 08:00	OP9015	EC1171
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	

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

Client Sample ID:	P-5/S-10		
Lab Sample ID:	LA35797-5	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	77%		15-133%
4165-62-2	Phenol-d5	80%		21-127%
118-79-6	2,4,6-Tribromophenol	82%		7-142%
4165-60-0	Nitrobenzene-d5	79%		43-128%
321-60-8	2-Fluorobiphenyl	81%		47-126%
1718-51-0	Terphenyl-d14	90%		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

Report of Analysis

Client Sample ID:	P-5/S-10		
Lab Sample ID:	LA35797-5	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8151 SW846 8151/3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	OA127721.D	1	08/03/17 14:34	ANJ	08/02/17 19:30	N:OP4944	N:GOA4364
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 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	33%		10-159%
19719-28-9	2,4-DCAA	35%		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
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

Client Sample ID:	P-5/S-10		
Lab Sample ID:	LA35797-5	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8081B SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	8G8063.D	1	08/03/17 12:27	ANJ	08/02/17 18:30	N:OP4954	N:G8G237
Run #2							

	Initial Weight	Final Volume
Run #1	16.6 g	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00060	mg/kg	
319-84-6	alpha-BHC	ND	0.00060	mg/kg	
319-85-7	beta-BHC	ND	0.00060	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00060	mg/kg	
12789-03-6	Chlordane	ND	0.030	mg/kg	
60-57-1	Dieldrin	ND	0.00060	mg/kg	
72-54-8	4,4'-DDD	ND	0.00060	mg/kg	
72-55-9	4,4'-DDE	ND	0.00060	mg/kg	
50-29-3	4,4'-DDT	ND	0.00060	mg/kg	
72-20-8	Endrin	ND	0.00060	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00060	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00060	mg/kg	
959-98-8	Endosulfan-I	ND	0.00060	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00060	mg/kg	
76-44-8	Heptachlor	ND	0.00060	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00060	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	55%		25-135%
877-09-8	Tetrachloro-m-xylene	47%		25-135%
2051-24-3	Decachlorobiphenyl	48%		10-156%
2051-24-3	Decachlorobiphenyl	32%		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.

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

Client Sample ID:	P-5/S-10		
Lab Sample ID:	LA35797-5	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.8	4.8	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Barium	12.1	4.8	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Cadmium	< 2.4	2.4	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Chromium	< 4.8	4.8	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Lead	5.9	4.8	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Mercury	< 0.067	0.067	mg/kg	1	08/01/17	08/02/17	RT	SW846 7471B [2]	SW846 7471A [3]
Selenium	< 4.8	4.8	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Silver	< 4.8	4.8	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

Client Sample ID:	P-6/S-10		
Lab Sample ID:	LA35797-6	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038138.D	1	08/02/17 17:11	PJ	n/a	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

Client Sample ID:	P-6/S-10		
Lab Sample ID:	LA35797-6	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	111%		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.

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

Client Sample ID:	P-6/S-10		
Lab Sample ID:	LA35797-6	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028173.D	1	07/31/17 16:48	IK	07/31/17 08:00	OP9015	EC1171
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	

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

Client Sample ID:	P-6/S-10		
Lab Sample ID:	LA35797-6	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	75%		15-133%
4165-62-2	Phenol-d5	77%		21-127%
118-79-6	2,4,6-Tribromophenol	73%		7-142%
4165-60-0	Nitrobenzene-d5	78%		43-128%
321-60-8	2-Fluorobiphenyl	77%		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.

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

Client Sample ID:	P-6/S-10		
Lab Sample ID:	LA35797-6	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8151 SW846 8151/3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	OA127722.D	1	08/03/17 15:03	ANJ	08/02/17 19:30	N:OP4944	N:GOA4364
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	87%		10-159%
19719-28-9	2,4-DCAA	79%		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
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

Client Sample ID:	P-6/S-10		
Lab Sample ID:	LA35797-6	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8081B SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	8G8064.D	1	08/03/17 12:42	ANJ	08/02/17 18:30	N:OP4954	N:G8G237
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00063	mg/kg	
319-84-6	alpha-BHC	ND	0.00063	mg/kg	
319-85-7	beta-BHC	ND	0.00063	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00063	mg/kg	
12789-03-6	Chlordane	ND	0.032	mg/kg	
60-57-1	Dieldrin	ND	0.00063	mg/kg	
72-54-8	4,4'-DDD	ND	0.00063	mg/kg	
72-55-9	4,4'-DDE	ND	0.00063	mg/kg	
50-29-3	4,4'-DDT	ND	0.00063	mg/kg	
72-20-8	Endrin	ND	0.00063	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00063	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00063	mg/kg	
959-98-8	Endosulfan-I	ND	0.00063	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00063	mg/kg	
76-44-8	Heptachlor	ND	0.00063	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00063	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	66%		25-135%
877-09-8	Tetrachloro-m-xylene	56%		25-135%
2051-24-3	Decachlorobiphenyl	63%		10-156%
2051-24-3	Decachlorobiphenyl	40%		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.

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

Client Sample ID:	P-6/S-10		
Lab Sample ID:	LA35797-6	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	n/a [a]
Project:	Lazenby & Associates/North 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	9.3	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	6.3	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

Report of Analysis

Client Sample ID:	P-7/S-10		
Lab Sample ID:	LA35797-7	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1H0038139.D	1	08/02/17 17:34	PJ	n/a	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

Report of Analysis

Client Sample ID:	P-7/S-10		
Lab Sample ID:	LA35797-7	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8260B	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	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
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

Client Sample ID:	P-7/S-10		
Lab Sample ID:	LA35797-7	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028174.D	1	07/31/17 17:10	IK	07/31/17 08:00	OP9015	EC1171
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 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	

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

Client Sample ID:	P-7/S-10		
Lab Sample ID:	LA35797-7	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	78%		15-133%
4165-62-2	Phenol-d5	80%		21-127%
118-79-6	2,4,6-Tribromophenol	78%		7-142%
4165-60-0	Nitrobenzene-d5	82%		43-128%
321-60-8	2-Fluorobiphenyl	82%		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
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

Client Sample ID:	P-7/S-10		
Lab Sample ID:	LA35797-7	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8151 SW846 8151/3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	OA127723.D	1	08/03/17 15:32	ANJ	08/02/17 19:30	N:OP4944	N:GOA4364
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
88-85-7	Dinoseb	ND	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
19719-28-9	2,4-DCAA	51%		10-159%
19719-28-9	2,4-DCAA	39%		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
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

Client Sample ID:	P-7/S-10		
Lab Sample ID:	LA35797-7	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8081B SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [b]	8G8065.D	1	08/03/17 12:57	ANJ	08/02/17 18:30	N:OP4954	N:G8G237
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

Pesticide RECAP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00062	mg/kg	
319-84-6	alpha-BHC	ND	0.00062	mg/kg	
319-85-7	beta-BHC	ND	0.00062	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00062	mg/kg	
12789-03-6	Chlordane	ND	0.031	mg/kg	
60-57-1	Dieldrin	ND	0.00062	mg/kg	
72-54-8	4,4'-DDD	ND	0.00062	mg/kg	
72-55-9	4,4'-DDE	ND	0.00062	mg/kg	
50-29-3	4,4'-DDT	ND	0.00062	mg/kg	
72-20-8	Endrin	ND	0.00062	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00062	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00062	mg/kg	
959-98-8	Endosulfan-I	ND	0.00062	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00062	mg/kg	
76-44-8	Heptachlor	ND	0.00062	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00062	mg/kg	
72-43-5	Methoxychlor	ND	0.0012	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	73%		25-135%
877-09-8	Tetrachloro-m-xylene	63%		25-135%
2051-24-3	Decachlorobiphenyl	74%		10-156%
2051-24-3	Decachlorobiphenyl	47%		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.

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

Client Sample ID:	P-7/S-10		
Lab Sample ID:	LA35797-7	**Date Sampled:**	07/25/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	n/a [a]
Project:	Lazenby & Associates/North 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	8.6	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	< 5.0	5.0	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Mercury	< 0.074	0.074	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

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028175.D	1	07/31/17 17:31	IK	07/31/17 08:00	OP9015	EC1171
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	

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

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	70%		15-133%
4165-62-2	Phenol-d5	72%		21-127%
118-79-6	2,4,6-Tribromophenol	71%		7-142%
4165-60-0	Nitrobenzene-d5	74%		43-128%
321-60-8	2-Fluorobiphenyl	75%		47-126%
1718-51-0	Terphenyl-d14	79%		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

Report of Analysis

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8015C	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LA274853.D	1	08/04/17 19:09	SV	n/a	n/a	GLA1418
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	4.90 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	5.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	91%		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.

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

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8015C SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S0029754.D	1	08/03/17 23:46	JT	08/03/17 10:26	OP9042	GLG535
Run #2							

	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	ND	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	101%		31-130%

(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

Report of Analysis

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8A	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	71.6 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	798	2.0	mg/l	20	08/07/17	08/07/17	RD	SW846 6010C [1]	LADNR 29B [2]
Magnesium	198	2.0	mg/l	20	08/07/17	08/07/17	RD	SW846 6010C [1]	LADNR 29B [2]
Sodium	125	10	mg/l	20	08/07/17	08/07/17	RD	SW846 6010C [1]	LADNR 29B [2]

(1) Instrument QC Batch: MA8627
(2) Prep QC Batch: MP8787

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8A	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	71.6 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent [a]	28.4		%	1	08/02/17	AB	ASTM 2216
Sodium Adsorption Ratio [b]	1.03		ratio	1	08/07/17 12:39	RD	LADNR29B

(a) All results with the exception of 29B parameters are reported on a wet weight basis.
(b) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8B	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	71.6 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
CEC Na	336000	50000	ug/l	5	08/03/17	08/03/17	RT	SW846 7000B [1]	LADNR 29B [4]
Extract Na	< 10000	10000	ug/l	1	08/03/17	08/03/17	RT	SW846 7000B [2]	LADNR 29B [3]

(1) Instrument QC Batch: MA8614
(2) Instrument QC Batch: MA8615
(3) Prep QC Batch: MP8755
(4) Prep QC Batch: MP8756

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8B	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	71.6 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
LADNR 29B Analysis							
Cation Exchange Capacity [b]	29.2	4.3	meq/100g	1	08/03/17 15:39	RT	LADNR 29B/SW846 700B
Extractable Sodium [c]	< 0.87	0.87	meq/100g	1	08/03/17 16:35	RT	LADNR 29B/SW846 700B
Soluble Sodium [d]	0.30	0.024	meq/100g	1	08/03/17	AB	LADNR 29B/SW846 700B
Percent Saturation	54.9		%	1	08/03/17	AB	LADNR 29B
Exchangeable Sodium % [e]	0.445	0.10	%	1	08/03/17 16:35	RT	LADNR 29B
Electrical Conductivity	2.7	1.0	mmhos/cm	1	08/04/17 11:00	CC	LADNR 29B
pH	6.68		su	1	08/01/17 14:15	CC	SW846 9045D

(a) All results with the exception of 29B parameters are reported on a wet weight basis.
(b) Calculated as: (CEC Na mg/l from flame * Final vol) / (Init wgt * 22.99 * 10)
(c) Calculated as: (Extract Na mg/l from flame * Final vol) / (Init wgt * 22.99 * 10)
(d) Calculated as: (SAR Na mg/l from ICP * PSAT) / (22.99 * 1000)
(e) Calculated as: ((Extractable Sodium - Soluble Sodium) * 100) / Cation Exchange Capacity

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8C	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	71.6
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Oil And Grease	< 0.010	0.010	%	1	08/08/17 15:00	LG	LANDR 29B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8E	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	71.6 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

Total True Barium Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Barium	< 100	100	mg/kg	1	08/08/17	08/08/17	RD	SW846 6010C [1]	LADNR 29B [2]

(1) Instrument QC Batch: MA8636
(2) Prep QC Batch: MP8801

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-8/S-10		
Lab Sample ID:	LA35797-8G	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	71.6 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

LADNR 29B Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	7.9	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Cadmium	< 1.3	1.3	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Chromium	9.2	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Lead	15.0	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.11	0.077	mg/kg	1	08/01/17	08/02/17	RT	SW846 7471B [2]	SW846 7471A [3]
Selenium	< 2.5	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Silver	< 2.5	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Zinc	87.0	13	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

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0028176.D	1	07/31/17 17:53	IK	07/31/17 08:00	OP9015	EC1171
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 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	

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

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8270D SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North 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	81%		15-133%
4165-62-2	Phenol-d5	83%		21-127%
118-79-6	2,4,6-Tribromophenol	81%		7-142%
4165-60-0	Nitrobenzene-d5	85%		43-128%
321-60-8	2-Fluorobiphenyl	84%		47-126%
1718-51-0	Terphenyl-d14	88%		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

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8015C	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LA274861.D	1	08/04/17 20:39	SV	n/a	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
	TPH-GRO (C6-C10)	ND	4.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		63-139%
540-36-3	1,4-Difluorobenzene	95%		52-140%

(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

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
Method:	SW846 8015C SW846 3546	**Percent Solids:**	n/a [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	S0029755.D	1	08/04/17 00:06	JT	08/03/17 10:26	OP9042	GLG535
Run #2							

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

CAS No.	Compound	Result	RL	Units	Q
	TPH-DRO (C10-C28)	8.68	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		31-130%

(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

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9A	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	77.7 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	22.1	2.0	mg/l	20	08/07/17	08/07/17	RD	SW846 6010C [1]	LADNR 29B [2]
Magnesium	4.54	2.0	mg/l	20	08/07/17	08/07/17	RD	SW846 6010C [1]	LADNR 29B [2]
Sodium	< 10	10	mg/l	20	08/07/17	08/07/17	RD	SW846 6010C [1]	LADNR 29B [2]

(1) Instrument QC Batch: MA8627
(2) Prep QC Batch: MP8787

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9A	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	77.7 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent [a]	22.3		%	1	08/02/17	AB	ASTM 2216
Sodium Adsorption Ratio [b]	0.168		ratio	1	08/07/17 13:00	RD	LADNR29B

(a) All results with the exception of 29B parameters are reported on a wet weight basis.
(b) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9B	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	77.7 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
CEC Na	327000	50000	ug/l	5	08/03/17	08/03/17	RT	SW846 7000B [1]	LADNR 29B [4]
Extract Na	< 10000	10000	ug/l	1	08/03/17	08/03/17	RT	SW846 7000B [2]	LADNR 29B [3]

(1) Instrument QC Batch: MA8614
(2) Instrument QC Batch: MA8615
(3) Prep QC Batch: MP8755
(4) Prep QC Batch: MP8756

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9B	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	77.7 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
LADNR 29B Analysis							
Cation Exchange Capacity [b]	28.4	4.3	meq/100g	1	08/03/17 15:40	RT	LADNR 29B/SW846 700B
Extractable Sodium [c]	< 0.87	0.87	meq/100g	1	08/03/17 16:36	RT	LADNR 29B/SW846 700B
Soluble Sodium [d]	< 0.024	0.024	meq/100g	1	08/03/17	AB	LADNR 29B/SW846 700B
Percent Saturation	55.4		%	1	08/03/17	AB	LADNR 29B
Exchangeable Sodium % [e]	< 0.10	0.10	%	1	08/03/17 16:36	RT	LADNR 29B
Electrical Conductivity	1.6	1.0	mmhos/cm	1	08/04/17 11:00	CC	LADNR 29B
pH	6.30		su	1	08/01/17 14:15	CC	SW846 9045D

(a) All results with the exception of 29B parameters are reported on a wet weight basis.
(b) Calculated as: (CEC Na mg/l from flame * Final vol) / (Init wgt * 22.99 * 10)
(c) Calculated as: (Extract Na mg/l from flame * Final vol) / (Init wgt * 22.99 * 10)
(d) Calculated as: (SAR Na mg/l from ICP * PSAT) / (22.99 * 1000)
(e) Calculated as: ((Extractable Sodium - Soluble Sodium) * 100) / Cation Exchange Capacity

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9C	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	77.7
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Oil And Grease	0.028	0.010	%	1	08/08/17 15:00	LG	LANDR 29B

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9E	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	77.7 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

Total True Barium Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Barium	< 100	100	mg/kg	1	08/08/17	08/08/17	RD	SW846 6010C [1]	LADNR 29B [2]

(1) Instrument QC Batch: MA8636
(2) Prep QC Batch: MP8801

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	P-9/S-10		
Lab Sample ID:	LA35797-9G	**Date Sampled:**	07/26/17
Matrix:	SO - Soil	**Date Received:**	07/28/17
		Percent Solids:	77.7 [a]
Project:	Lazenby & Associates/North Tract-Calhoun, LA		

LADNR 29B Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	5.6	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Cadmium	< 1.3	1.3	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Chromium	7.4	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Lead	8.4	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Mercury	0.085	0.074	mg/kg	1	08/01/17	08/02/17	RT	SW846 7471B [2]	SW846 7471A [3]
Selenium	< 2.5	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Silver	< 2.5	2.5	mg/kg	5	08/01/17	08/02/17	RD	SW846 6010C [1]	SW846 3050B [4]
Zinc	67.8	13	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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS 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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FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # LA35797

Client / Reporting Information	Project Information	
Company Name: PPM CONSULTANTS	Project Name: LAZENBY + ASSOCIATES / NORTH TRACT	
Street Address: 1600 LAMY LN	Street	Billing Information (if different from Report to)
City: MONROE State: LA Zip: 71201	City: CALHOUN State: LA	Company Name
Project Contact: CHRIS SAMPOGNARO E-mail	Project #: 11452005	Street Address
Phone #: 318 323 7270 Fax #	Client Purchase Order #	City State Zip
Sampler(s) Name(s): JON ROGER Phone #	Project Manager	Attention:

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

Accutest Sample #	Field ID / Point of Collection	Date	Time	COMP/GRAB	Matrix	# of bottles	HCl	NaOH	ZnNaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	TPH-GRO 8015	TPH-DRO 8015	TPH-ORO 8015	BTEX 8260B	RCRA METAL 6010B	PESTICIDES 8081A	HERBICIDES 8151A	VOC 8260B	SVOC 8270B	DNR 29-B		LAB USE ONLY
1	P-1/S-10	7/25/17	0900	g	SO	6						2		2		2			X	X		X								6
2	P-2/S-10	7/25	0930	g	SO	6						2		2		2			X	X		X								6
3	P-3/S-10	7/25	1035	g	SO	8						4		2		2							X	X	X	X	X			8
4	P-4/S-10	7/25	1115	g	SO	8						4		2		2							X	X	X	X	X			8
5	P-5/S-10	7/25	1210	g	SO	8						4		2		2							X	X	X	X	X			8
6	P-6/S-10	7/25	1425	g	SO	8						4		2		2							X	X	X	X	X			8
7	P-7/S-10	7/25	1530	g	SO	8						4		2		2							X	X	X	X	X			8
8	P-8/S-10	7/26/17	0900	g	SO	11						7		2		2			X	X	X						X	X		11
9	P-9/S-10	7/26/17	0950	g	SO	11						7		2		2			X	X	X						X	X		11

Turnaround Time (Business days)

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

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

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

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

Comments / Special Instructions

TIER 1 BSM-12 (V2)
YMA-8 (7C-3)
RRM-20 (2W) RRM-18 (3W)
RRM-5 (7D) 1500

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/28/17 1100	1 Walter Newman	2 Walter Newman	7.28.17	2 [signature]
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # CONTACT	☐ Intact ☐ Not intact; Preserved where applicable ☑	On Ice ☑; Cooler Temp. 3.8/2.4 DV4(A)

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

4.1
4

LA35797: Chain of Custody
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SGS Accutest Sample Receipt Summary

Job Number: LA35797 **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: (2.8/2.8); #2: (2.4/2.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (direct contact)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Rec'd (1) 4oz for metals & (1) 4oz for herb/pest for both sample ID P-8/S-10 not marked on coc

LA35797: Chain of Custody
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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2J1176-MB1	2J0040358.D	1	08/02/17	MJ	n/a	n/a	V2J1176

The QC reported here applies to the following samples: **Method:** SW846 8260B

LA35797-1, LA35797-2

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	2.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	97%	59-143%
2037-26-5	Toluene-D8	97%	52-159%
460-00-4	4-Bromofluorobenzene	99%	38-183%

Method Blank Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North 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

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

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	

Method Blank Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North 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

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

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%

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2J1176-BS1	2J0040356.D	1	08/02/17	MJ	n/a	n/a	V2J1176
V2J1176-BSD1	2J0040357.D	1	08/02/17	MJ	n/a	n/a	V2J1176

The QC reported here applies to the following samples: **Method:** SW846 8260B

LA35797-1, LA35797-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	20.1	101	20.3	102	1	67-135/30
100-41-4	Ethylbenzene	20	18.6	93	19.3	97	4	69-136/30
108-88-3	Toluene	20	19.0	95	19.2	96	1	71-135/30
1330-20-7	Xylene (total)	60	56.4	94	57.8	96	2	69-138/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0	1,2-Dichloroethane-D4	98%	97%	59-143%
2037-26-5	Toluene-D8	101%	101%	52-159%
460-00-4	4-Bromofluorobenzene	102%	101%	38-183%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North 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

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

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.

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North 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

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

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.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
LA35797-2MS	2J0040379.D	1	08/02/17	MJ	n/a	n/a	V2J1176
LA35797-2MSD	2J0040380.D	1	08/02/17	MJ	n/a	n/a	V2J1176
LA35797-2	2J0040378.D	1	08/02/17	MJ	n/a	n/a	V2J1176

The QC reported here applies to the following samples: **Method:** SW846 8260B

LA35797-1, LA35797-2

CAS No.	Compound	LA35797-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		1960	1830	93	1960	1900	97	4	15-162/33
100-41-4	Ethylbenzene	ND		1960	1760	90	1960	1760	90	0	14-168/13
108-88-3	Toluene	ND		1960	1800	92	1960	1820	93	1	11-173/43
1330-20-7	Xylene (total)	ND		5880	5320	90	5880	5330	91	0	14-172/12

CAS No.	Surrogate Recoveries	MS	MSD	LA35797-2	Limits
17060-07-0	1,2-Dichloroethane-D4	96%	97%	95%	59-143%
2037-26-5	Toluene-D8	95%	99%	100%	52-159%
460-00-4	4-Bromofluorobenzene	104%	102%	99%	38-183%

* = Outside of Control Limits.

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

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9015-MB	C0028161.D	1	07/31/17	IK	07/31/17	OP9015	EC1171

The QC reported here applies to the following samples: **Method:** SW846 8270D

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8, LA35797-9

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	2.3	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	ND	170	ug/kg	
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

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9015-MB	C0028161.D	1	07/31/17	IK	07/31/17	OP9015	EC1171

The QC reported here applies to the following samples: **Method:** SW846 8270D

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8, LA35797-9

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	79%	15-133%
4165-62-2	Phenol-d5	79%	21-127%
118-79-6	2,4,6-Tribromophenol	74%	7-142%
4165-60-0	Nitrobenzene-d5	80%	43-128%
321-60-8	2-Fluorobiphenyl	83%	47-126%
1718-51-0	Terphenyl-d14	87%	56-124%

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9015-BS	C0028162.D	1	07/31/17	IK	07/31/17	OP9015	EC1171
OP9015-BSD	C0028163.D	1	07/31/17	IK	07/31/17	OP9015	EC1171

The QC reported here applies to the following samples: **Method:** SW846 8270D

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8, LA35797-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	2500	1950	78	1970	79	1	64-107/30
120-83-2	2,4-Dichlorophenol	2500	2210	88	2200	88	0	68-109/30
105-67-9	2,4-Dimethylphenol	2500	2030	81	2060	82	1	65-107/30
51-28-5	2,4-Dinitrophenol	2500	1790	72	1910	76	6	29-119/30
100-02-7	4-Nitrophenol	2500	1860	74	1910	76	3	59-118/30
87-86-5	Pentachlorophenol	2500	1960	78	1980	79	1	52-109/30
108-95-2	Phenol	2500	1960	78	1980	79	1	60-112/30
58-90-2	2,3,4,6-Tetrachlorophenol	2500	2040	82	2000	80	2	66-112/30
95-95-4	2,4,5-Trichlorophenol	2500	2120	85	2090	84	1	66-113/30
88-06-2	2,4,6-Trichlorophenol	2500	2230	89	2270	91	2	67-112/30
83-32-9	Acenaphthene	2500	1900	76	1900	76	0	68-103/30
208-96-8	Acenaphthylene	2500	1980	79	2030	81	2	66-108/30
62-53-3	Aniline	2500	2020	81	2050	82	1	65-115/30
120-12-7	Anthracene	2500	2030	81	2020	81	0	66-112/30
56-55-3	Benzo(a)anthracene	2500	2050	82	2070	83	1	61-106/30
50-32-8	Benzo(a)pyrene	2500	2200	88	2200	88	0	71-112/30
205-99-2	Benzo(b)fluoranthene	2500	2070	83	2070	83	0	66-108/30
92-52-4	1,1'-Biphenyl	2500	1930	77	1970	79	2	62-114/30
207-08-9	Benzo(k)fluoranthene	2500	2250	90	2250	90	0	64-116/30
85-68-7	Butyl Benzyl Phthalate	2500	1970	79	1990	80	1	66-119/30
106-47-8	4-Chloroaniline	2500	2020	81	2030	81	0	63-109/30
111-44-4	bis(2-Chloroethyl)ether	2500	1910	76	1950	78	2	62-111/30
108-60-1	bis(2-Chloroisopropyl)ether	2500	1770	71	1820	73	3	64-107/30
91-58-7	2-Chloronaphthalene	2500	1970	79	1980	79	1	67-103/30
218-01-9	Chrysene	2500	2090	84	2080	83	0	66-106/30
53-70-3	Dibenzo(a,h)anthracene	2500	2160	86	2140	86	1	49-117/30
132-64-9	Dibenzofuran	2500	1990	80	2020	81	1	67-106/30
91-94-1	3,3'-Dichlorobenzidine	2500	1980	79	2030	81	2	66-113/30
84-66-2	Diethyl Phthalate	2500	1990	80	1990	80	0	67-111/30
131-11-3	Dimethyl Phthalate	2500	1990	80	2030	81	2	68-106/30
117-84-0	Di-n-octyl Phthalate	2500	1870	75	1880	75	1	62-117/30
99-65-0	1,3-Dinitrobenzene	2500	1900	76	1970	79	4	65-116/30
121-14-2	2,4-Dinitrotoluene	2500	1980	79	2030	81	2	64-117/30
606-20-2	2,6-Dinitrotoluene	2500	2120	85	2160	86	2	69-111/30
117-81-7	bis(2-Ethylhexyl)phthalate	2500	1950	78	1970	79	1	63-119/30
206-44-0	Fluoranthene	2500	2100	84	2120	85	1	65-112/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9015-BS	C0028162.D	1	07/31/17	IK	07/31/17	OP9015	EC1171
OP9015-BSD	C0028163.D	1	07/31/17	IK	07/31/17	OP9015	EC1171

The QC reported here applies to the following samples: **Method:** SW846 8270D

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8, LA35797-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
86-73-7	Fluorene	2500	1970	79	2010	80	2	67-108/30
118-74-1	Hexachlorobenzene	2500	2030	81	2030	81	0	64-109/30
87-68-3	Hexachlorobutadiene	2500	2080	83	2060	82	1	64-108/30
77-47-4	Hexachlorocyclopentadiene	2500	2000	80	2060	82	3	49-117/30
193-39-5	Indeno(1,2,3-cd)pyrene	2500	2120	85	2120	85	0	68-110/30
78-59-1	Isophorone	2500	1950	78	2020	81	4	65-105/30
91-57-6	2-Methylnaphthalene	2500	1990	80	2000	80	1	65-107/30
91-20-3	Naphthalene	2500	1910	76	1920	77	1	64-107/30
88-74-4	2-Nitroaniline	2500	1860	74	1900	76	2	65-116/30
99-09-2	3-Nitroaniline	2500	2010	80	2050	82	2	69-112/30
100-01-6	4-Nitroaniline	2500	1950	78	2010	80	3	61-113/30
98-95-3	Nitrobenzene	2500	1960	78	2040	82	4	65-109/30
621-64-7	N-Nitroso-di-n-propylamine	2500	1900	76	1950	78	3	64-112/30
86-30-6	N-Nitrosodiphenylamine	2500	2010	80	2010	80	0	66-111/30
85-01-8	Phenanthrene	2500	1930	77	1920	77	1	63-110/30
129-00-0	Pyrene	2500	2200	88	2210	88	0	60-112/30
95-94-3	1,2,4,5-Tetrachlorobenzene	2500	1960	78	1980	79	1	65-109/30
120-82-1	1,2,4-Trichlorobenzene	2500	2150	86	2180	87	1	66-104/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	75%	75%	15-133%
4165-62-2	Phenol-d5	77%	78%	21-127%
118-79-6	2,4,6-Tribromophenol	80%	81%	7-142%
4165-60-0	Nitrobenzene-d5	86%	88%	43-128%
321-60-8	2-Fluorobiphenyl	80%	81%	47-126%
1718-51-0	Terphenyl-d14	84%	84%	56-124%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9015-MS	C0028164.D	1	07/31/17	IK	07/31/17	OP9015	EC1171
LA35723-11	C0028165.D	1	07/31/17	IK	07/31/17	OP9015	EC1171

The QC reported here applies to the following samples: **Method:** SW846 8270D

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8, LA35797-9

CAS No.	Compound	LA35723-11 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
95-57-8	2-Chlorophenol	ND		2490	1890	76	32-130
120-83-2	2,4-Dichlorophenol	ND		2490	2140	86	1-166
105-67-9	2,4-Dimethylphenol	ND		2490	2050	82	21-135
51-28-5	2,4-Dinitrophenol	ND		2490	1530	62	1-140
100-02-7	4-Nitrophenol	ND		2490	1790	72	25-135
87-86-5	Pentachlorophenol	ND		2490	1990	80	5-128
108-95-2	Phenol	ND		2490	1870	75	28-128
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2490	1990	80	31-126
95-95-4	2,4,5-Trichlorophenol	ND		2490	2030	82	31-129
88-06-2	2,4,6-Trichlorophenol	ND		2490	2210	89	30-132
83-32-9	Acenaphthene	ND		2490	1820	73	36-126
208-96-8	Acenaphthylene	ND		2490	1930	78	40-129
62-53-3	Aniline	ND		2490	1880	76	38-133
120-12-7	Anthracene	ND		2490	1970	79	35-133
56-55-3	Benzo(a)anthracene	ND		2490	2010	81	31-130
50-32-8	Benzo(a)pyrene	ND		2490	2150	86	23-144
205-99-2	Benzo(b)fluoranthene	ND		2490	2050	82	31-133
92-52-4	1,1'-Biphenyl	2.3		2490	1850	74	39-124
207-08-9	Benzo(k)fluoranthene	ND		2490	2150	86	34-140
85-68-7	Butyl Benzyl Phthalate	ND		2490	1960	79	23-146
106-47-8	4-Chloroaniline	ND		2490	1930	78	18-135
111-44-4	bis(2-Chloroethyl)ether	ND		2490	1850	74	25-138
108-60-1	bis(2-Chloroisopropyl)ether	ND		2490	1720	69	39-127
91-58-7	2-Chloronaphthalene	ND		2490	1900	76	42-125
218-01-9	Chrysene	ND		2490	2040	82	18-153
53-70-3	Dibenzo(a,h)anthracene	ND		2490	2100	84	20-140
132-64-9	Dibenzofuran	ND		2490	1920	77	34-128
91-94-1	3,3'-Dichlorobenzidine	ND		2490	1910	77	1-153
84-66-2	Diethyl Phthalate	ND		2490	1930	78	31-137
131-11-3	Dimethyl Phthalate	ND		2490	1930	78	28-138
117-84-0	Di-n-octyl Phthalate	ND		2490	1930	78	21-145
99-65-0	1,3-Dinitrobenzene	ND		2490	1860	75	50-125
121-14-2	2,4-Dinitrotoluene	ND		2490	1930	78	30-136
606-20-2	2,6-Dinitrotoluene	ND		2490	2030	82	36-131
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2490	1910	77	26-149
206-44-0	Fluoranthene	ND		2490	2060	83	31-132

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9015-MS	C0028164.D	1	07/31/17	IK	07/31/17	OP9015	EC1171
LA35723-11	C0028165.D	1	07/31/17	IK	07/31/17	OP9015	EC1171

The QC reported here applies to the following samples: **Method:** SW846 8270D

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8, LA35797-9

CAS No.	Compound	LA35723-11 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
86-73-7	Fluorene	ND		2490	1910	77	33-133
118-74-1	Hexachlorobenzene	ND		2490	1950	78	41-125
87-68-3	Hexachlorobutadiene	ND		2490	1960	79	26-135
77-47-4	Hexachlorocyclopentadiene	ND		2490	1790	72	1-149
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2490	2080	84	23-136
78-59-1	Isophorone	ND		2490	1930	78	35-134
91-57-6	2-Methylnaphthalene	ND		2490	1900	76	43-124
91-20-3	Naphthalene	ND		2490	1850	74	44-123
88-74-4	2-Nitroaniline	ND		2490	1840	74	48-128
99-09-2	3-Nitroaniline	ND		2490	1980	80	49-127
100-01-6	4-Nitroaniline	ND		2490	1940	78	37-139
98-95-3	Nitrobenzene	ND		2490	1940	78	47-125
621-64-7	N-Nitroso-di-n-propylamine	ND		2490	1860	75	27-142
86-30-6	N-Nitrosodiphenylamine	ND		2490	1970	79	38-128
85-01-8	Phenanthrene	ND		2490	1860	75	30-132
129-00-0	Pyrene	ND		2490	2140	86	32-139
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		2490	1900	76	52-121
120-82-1	1,2,4-Trichlorobenzene	ND		2490	2060	83	51-120

CAS No.	Surrogate Recoveries	MS	LA35723-11	Limits
367-12-4	2-Fluorophenol	73%		15-133%
4165-62-2	Phenol-d5	76%		21-127%
118-79-6	2,4,6-Tribromophenol	83%		7-142%
4165-60-0	Nitrobenzene-d5	86%	77%	43-128%
321-60-8	2-Fluorobiphenyl	81%	78%	47-126%
1718-51-0	Terphenyl-d14	85%	83%	56-124%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North 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

LA35797-1, LA35797-2, LA35797-8, LA35797-9

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%

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North 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

LA35797-1, LA35797-2, LA35797-8, LA35797-9

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

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North 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

LA35797-1, LA35797-2, LA35797-8, LA35797-9

CAS No.	Compound	LA35796-8 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	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.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9042-MB	S0029736A.D	1	08/03/17	JT	08/03/17	OP9042	GLG535

The QC reported here applies to the following samples: **Method:** SW846 8015C

LA35797-1, LA35797-2, LA35797-8, LA35797-9

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	104%	31-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: PPMLAM PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP9042-BS	S0029739A.D	1	08/03/17	JT	08/03/17	OP9042	GLG535
OP9042-BSD	S0029740A.D	1	08/03/17	JT	08/03/17	OP9042	GLG535

The QC reported here applies to the following samples: **Method:** SW846 8015C

LA35797-1, LA35797-2, LA35797-8, LA35797-9

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	150	155	103	147	98	5	60-115/46

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	117%	112%	31-130%

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

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: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8724 Methods: SW846 7471B
Matrix Type: SOLID 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: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8724 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/01/17

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

Associated samples MP8724: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8724 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/01/17

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

Associated samples MP8724: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8724 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/01/17

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

Associated samples MP8724: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8724 Methods: SW846 7471B
Matrix Type: SOLID 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: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North 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	-0.017	<5.0

Associated samples MP8727: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North 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	101.1	75-125
Barium	13.1	119	100	105.9	75-125
Beryllium					
Boron					
Cadmium	0.0	104	100	104.0	75-125
Calcium					
Chromium	6.7	108	100	101.3	75-125
Cobalt					
Copper	anr				
Iron					
Lead	4.5	106	100	101.5	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium	0.0	94.6	100	94.6	75-125
Silver	0.0	104	100	104.0	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Vanadium					
Zinc	5.2	106	100	100.8	75-125

Associated samples MP8727: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North 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	0.0	20
Barium	13.1	118	100	104.9	0.8	20
Beryllium						
Boron						
Cadmium	0.0	104	100	104.0	0.0	20
Calcium						
Chromium	6.7	110	100	103.3	1.8	20
Cobalt						
Copper	anr					
Iron						
Lead	4.5	106	100	101.5	0.0	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium	0.0	95.2	100	95.2	0.6	20
Silver	0.0	105	100	105.0	1.0	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	5.2	108	100	102.8	1.9	20

Associated samples MP8727: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North 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	183	198	92.4	82-117

Associated samples MP8727: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North 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	51.6	77.4	50.1 (a)	0-10

Associated samples MP8727: LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7, LA35797-8G, LA35797-9G

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).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8755 Methods: SW846 7000B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 08/03/17

Metal	RL	IDL	MDL	MB raw	final
Extract Na	10000	420	4600	-660	<10000

Associated samples MP8755: LA35797-8B, LA35797-9B

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8755
Matrix Type: AQUEOUS

Methods: SW846 7000B
Units: ug/l

Prep Date: 08/03/17

Metal	LA35797-8B Original	DUP	RPD	QC Limits
Extract Na	5000	6150	20.6 (a)	0-20

Associated samples MP8755: LA35797-8B, LA35797-9B

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
(a) RPD acceptable due to low duplicate and sample concentrations.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8755
Matrix Type: AQUEOUS

Methods: SW846 7000B
Units: ug/l

Prep Date: 08/03/17

Metal	BSP Result	Spikelot LA29BSPIKE	% Rec	QC Limits
Extract Na	105000	100000	105.0	80-120

Associated samples MP8755: LA35797-8B, LA35797-9B

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8756 Methods: SW846 7000B
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 08/03/17

Metal	RL	IDL	MDL	MB raw	final
CEC Na	10000	420	4600	-2100	<10000

Associated samples MP8756: LA35797-8B, LA35797-9B

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8756
Matrix Type: AQUEOUS

Methods: SW846 7000B
Units: ug/l

Prep Date: 08/03/17

Metal	LA35797-8B Original	DUP	RPD	QC Limits
CEC Na	336000	354000	5.2	0-20

Associated samples MP8756: LA35797-8B, LA35797-9B

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8756
Matrix Type: AQUEOUS

Methods: SW846 7000B
Units: ug/l

Prep Date: 08/03/17

Metal	BSP Result	Spikelot LA29BSPIKE	% Rec	QC Limits
CEC Na	108000	100000	108.0	80-120

Associated samples MP8756: LA35797-8B, LA35797-9B

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8787
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/07/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	6.1	46		
Antimony	6.0	.56	3.7		
Arsenic	10	1	2.6		
Barium	10	.19	1.3		
Beryllium	4.0	.01	.3		
Boron	100	.76	10		
Cadmium	5.0	.16	.9		
Calcium	100	5.1	58	71.0	* (a)
Chromium	10	.32	.9		
Cobalt	10	.13	.8		
Copper	10	.4	4		
Iron	100	6.4	33		
Lead	10	.27	1.8		
Lithium	10	3.5	6.3		
Magnesium	100	19	37	-35	<100
Manganese	10	.06	1.1		
Molybdenum	10	.13	1.1		
Nickel	10	.17	1		
Potassium	500	14	50		
Selenium	10	1.3	3.6		
Silver	10	.23	1.4		
Sodium	500	20	53	-72	<500
Strontium	10	.05	1		
Thallium	5.0	1	1.6		
Tin	10	.18	.9		
Titanium	10	.25	1.7		
Vanadium	10	.24	.9		
Zinc	20	.1	4.3		

Associated samples MP8787: LA35797-8A, LA35797-9A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) All reported samples > 10 x blank absolute value or < RDL.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8787
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/07/17

Metal	LA35797-8A Original	DUP	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	798000	805000	0.9	0-20
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	198000	206000	4.0	0-20
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	125000	126000	0.8	0-20
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP8787: LA35797-8A, LA35797-9A

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8787
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/07/17

Metal	BSP Result	Spikelot LA29BSPIKE	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	4400	4000	110.0	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	2000	2000	100.0	80-120
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium	104000	100000	104.0	80-120
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP8787: LA35797-8A, LA35797-9A

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

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8801
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/08/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	490	67	120		
Antimony	29	6.9	7.8		
Arsenic	49	9.3	12		
Barium	100	1	3.9	24.9	<100
Beryllium	20	.25	.98		
Boron	2500	4.7	32		
Cadmium	25	.62	2.9		
Calcium	490	25	200		
Chromium	49	1.4	4.9		
Cobalt	49	.74	3.9		
Copper	49	2.1	29		
Iron	490	14	75		
Lead	49	4.4	7.4		
Lithium	49	5.4	14		
Magnesium	490	87	93		
Manganese	250	.25	4.4		
Molybdenum	49	.73	5.4		
Nickel	49	1.5	38		
Potassium	2500	120	400		
Selenium	49	8.4	25		
Silver	49	1.6	5.9		
Sodium	2500	32	93		
Strontium	49	.44	3.4		
Thallium	25	6.6	7.8		
Tin	250	3.7	9.8		
Titanium	49	2.2	9.8		
Vanadium	49	1.6	4.4		
Zinc	250	3.1	23		

Associated samples MP8801: LA35797-8E, LA35797-9E

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8801
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/08/17

Metal	LA35797-8E Original	DUP	RPD	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	51.2	45.7	11.4	0-20
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP8801: LA35797-8E, LA35797-9E

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

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

QC Batch ID: MP8801
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 08/08/17

Metal	BSP Result	Spikelot TTBALA29	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium	46600	48100	96.9	80-120
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc				

Associated samples MP8801: LA35797-8E, LA35797-9E

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

General Chemistry

QC Data Summaries

Includes the following where applicable:

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

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Electrical Conductivity	GN11068			mmhos/cm	1.408	1.4	98.0	90-110%
Oil And Grease	GP5543/GN11098	0.010	0.0	%	.01	0.095	94.5	80-120%

Associated Samples:
Batch GP5543: LA35797-8C, LA35797-9C
Batch GN11033: LA35797-8B, LA35797-9B
Batch GN11068: LA35797-8B, LA35797-9B
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Oil And Grease	GP5543/GN11098	%	.01	0.080	16.6	

Associated Samples:
Batch GP5543: LA35797-8C, LA35797-9C
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: LA35797
Account: PPMLAM - PPM Consultants
Project: Lazenby & Associates/North Tract-Calhoun, LA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Electrical Conductivity	GN11068	LA35797-8B	mmhos/cm	2.7	2.7	1.4	0-10%
Moisture, Percent	GN11059	LA35797-9A	%	22.3	21.7	2.7	0-5%
Oil And Grease	GP5543/GN11098	LA35797-8C	%	0.0	0.0	0.0	0-20%
Percent Saturation	GN11055	LA35797-9B	%	55.4	52.6	5.2	0-20%
pH	GN11033	LA35801-23B	su	7.72	7.82	1.3	0-20%

Associated Samples:
Batch GP5543: LA35797-8C, LA35797-9C
Batch GN11033: LA35797-8B, LA35797-9B
Batch GN11055: LA35797-8B, LA35797-9B
Batch GN11059: LA35797-8A, LA35797-9A
Batch GN11068: LA35797-8B, LA35797-9B
(*) Outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS ACCUTEST

Page 1 of 1

FED-EX Tracking # 6449 5047 6011 | SGS Accutest Job # LA35797

Client / Reporting Information

Company Name: SGS Accutest
Street Address: 500 Ambassador Caffery Parkway
City: Scott State: LA Zip: 70583
Project Contact: Donald McDowell
Phone #: 800-304-5227
Sampler's Name(s): JR

Project Information

Project Name: Lazenby & Associates/North Tract-Calhoun LA

Requested Analysis (see TEST CODE sheet)

Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	Analysis
3	P-3/2-10	7/25/17	10:35:00 AM	JR	SO	X
4	P-4/2-10	7/25/17	11:18:00 AM	JR	SO	X
5	P-5/2-10	7/25/17	12:10:00 PM	JR	SO	X
6	P-6/2-10	7/25/17	2:25:00 PM	JR	SO	X
7	P-7/2-10	7/25/17	3:30:00 PM	JR	SO	X

Turnaround Time (Business days): other Due 8/7/2017

Data Deliverable Information: Commercial "B" (Level 2) [X]; COMMB

INITIAL ASSESSMENT 3A
LABEL VERIFICATION

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

Relinquished by Sampler: 1 — Date Time: 7-31-17 — Received By: 1 FEDEX
Relinquished By: 2 FEDEX — Date Time: 8-1-17 930 — Received By: 2 DL

Cooler Temp. 2.1 °C IP

LA35797: Chain of Custody
Page 1 of 2
SGS Accutest New Jersey

SGS Accutest Sample Receipt Summary

Job Number: LA35797 **Client:** _____ **Project:** _____

Date / Time Received: 8/1/2017 9:30:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (3.4);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

SM089-02
Rev. Date 12/1/16

11.1
11

LA35797: Chain of Custody
Page 2 of 2

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

Job Number: LA35797
Account: ALLA SGS Accutest Lafayette
Project: PPMLAM: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4944-MB1	OA127714.D	1	08/03/17	VDT	08/02/17	OP4944	GOA4364

The QC reported here applies to the following samples: **Method:** SW846 8151

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

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	85%	10-159%
19719-28-9	2,4-DCAA	88%	10-159%

Method Blank Summary

Job Number: LA35797
Account: ALLA SGS Accutest Lafayette
Project: PPMLAM: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4954-MB1	8G8053.D	1	08/03/17	DM	08/02/17	OP4954	G8G237

The QC reported here applies to the following samples: **Method:** SW846 8081B

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

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	88%	25-135%
877-09-8	Tetrachloro-m-xylene	74%	25-135%
2051-24-3	Decachlorobiphenyl	104%	10-156%
2051-24-3	Decachlorobiphenyl	78%	10-156%

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: ALLA SGS Accutest Lafayette
Project: PPMLAM: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4944-BS1	OA127715.D	1	08/03/17	VDT	08/02/17	OP4944	GOA4364
OP4944-BSD	OA127716.D	1	08/03/17	VDT	08/02/17	OP4944	GOA4364

The QC reported here applies to the following samples: **Method:** SW846 8151

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
88-85-7	Dinoseb	133	108	81 [a]	122	92 [a]	12 [a]	10-159/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
19719-28-9	2,4-DCAA	97%	96%	10-159%
19719-28-9	2,4-DCAA	90%	80%	10-159%

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

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: LA35797
Account: ALLA SGS Accutest Lafayette
Project: PPMLAM: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4954-BS1	8G8054.D	1	08/03/17	DM	08/02/17	OP4954	G8G237
OP4954-BSD	8G8055.D	1	08/03/17	DM	08/02/17	OP4954	G8G237

The QC reported here applies to the following samples: **Method:** SW846 8081B

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	16.7	13.5	81	13.6	82	1	46-120/25
319-84-6	alpha-BHC	16.7	12.3	74	12.9	77	5	45-116/25
319-85-7	beta-BHC	16.7	11.8	71	12.1	73	3	42-121/25
58-89-9	gamma-BHC (Lindane)	16.7	13.0	78	13.2	79	2	46-118/25
60-57-1	Dieldrin	16.7	12.9	77	13.0	78	1	48-126/25
72-54-8	4,4'-DDD	16.7	12.8	77	13.1	79	2	47-120/25
72-55-9	4,4'-DDE	16.7	13.4	80	13.3	80	1	48-121/25
50-29-3	4,4'-DDT	16.7	11.6	70	11.8	71	2	45-135/25
72-20-8	Endrin	16.7	12.9	77	12.9	77	0	51-137/25
1031-07-8	Endosulfan sulfate	16.7	12.0	72	12.1	73	1	48-128/25
7421-93-4	Endrin aldehyde	16.7	12.2	73	12.5	75	2	46-125/25
959-98-8	Endosulfan-I	16.7	12.6	76	12.2	73	3	47-118/25
33213-65-9	Endosulfan-II	16.7	12.1	73	12.2	73	1	49-121/25
76-44-8	Heptachlor	16.7	11.7	70	12.0	72	3	48-120/25
1024-57-3	Heptachlor epoxide	16.7	11.8	71	12.2	73	3	46-122/25
72-43-5	Methoxychlor	16.7	10.8	65	11.1	67	3	44-136/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	78%	81%	25-135%
877-09-8	Tetrachloro-m-xylene	74%	77%	25-135%
2051-24-3	Decachlorobiphenyl	91%	92%	10-156%
2051-24-3	Decachlorobiphenyl	70%	71%	10-156%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: LA35797
Account: ALLA SGS Accutest Lafayette
Project: PPMLAM: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4944-MS	OA127739.D	1	08/03/17	VDT	08/02/17	OP4944	GOA4364
OP4944-MSD	OA127740.D	1	08/03/17	VDT	08/02/17	OP4944	GOA4364
JC47999-1	OA127732.D	2	08/03/17	VDT	08/02/17	OP4944	GOA4364

The QC reported here applies to the following samples: **Method:** SW846 8151

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

CAS No.	Compound	JC47999-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
88-85-7	Dinoseb	ND		154	ND	0* [a]	157	ND	0* [a]	nc	10-156/44

CAS No.	Surrogate Recoveries	MS	MSD	JC47999-1	Limits
19719-28-9	2,4-DCAA	39%	47%	63%	10-159%
19719-28-9	2,4-DCAA	28%	40%	63%	10-159%

(a) Outside control limits due to matrix interference.

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* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: LA35797
Account: ALLA SGS Accutest Lafayette
Project: PPMLAM: Lazenby & Associates/North Tract-Calhoun, LA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP4954-MS	8G8059.D	1	08/03/17	DM	08/02/17	OP4954	G8G237
OP4954-MSD	8G8060.D	1	08/03/17	DM	08/02/17	OP4954	G8G237
JC47999-3	8G8058.D	1	08/03/17	DM	08/02/17	OP4954	G8G237
JC47999-3 [a]	8G8094.D	5	08/04/17	CP	08/02/17	OP4954	G8G238

The QC reported here applies to the following samples: **Method:** SW846 8081B

LA35797-3, LA35797-4, LA35797-5, LA35797-6, LA35797-7

CAS No.	Compound	JC47999-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		21	23.2	111	19.6	18.9	97	20	23-143/44
319-84-6	alpha-BHC	ND		21	28.0	133	19.6	25.2	129	11	18-152/47
319-85-7	beta-BHC	ND		21	14.4	69	19.6	16.2	83	12	7-143/48
58-89-9	gamma-BHC (Lindane)	ND		21	25.4	121	19.6	21.1	108	18	23-138/49
12789-03-6	Chlordane	ND			ND			ND		nc	30-150/30
60-57-1	Dieldrin	1.1		21	19.1	86	19.6	19.8	96	4	14-154/46
72-54-8	4,4'-DDD	12.4		21	30.4	86	19.6	31.8	99	5	18-149/51
72-55-9	4,4'-DDE	13.1		21	29.1	76	19.6	31.6	95	8	10-154/49
50-29-3	4,4'-DDT	6.4		21	23.3	81	19.6	22.9	84	2	10-170/50
72-20-8	Endrin	ND		21	16.7	80	19.6	13.9	71	18	18-173/49
1031-07-8	Endosulfan sulfate	ND		21	20.2	96	19.6	17.7	90	13	19-132/50
7421-93-4	Endrin aldehyde	ND		21	23.5	112	19.6	17.5	89	29	10-160/53
959-98-8	Endosulfan-I	ND		21	17.2	82	19.6	14.5	74	17	18-143/46
33213-65-9	Endosulfan-II	ND		21	18.6	89	19.6	15.9	81	16	21-132/46
76-44-8	Heptachlor	ND		21	19.5	93	19.6	15.8	81	21	22-146/46
1024-57-3	Heptachlor epoxide	ND		21	21.6	103	19.6	18.9	97	13	21-151/45
72-43-5	Methoxychlor	ND		21	62.1	296* [b]	19.6	25.0	128	85* [b]	11-166/50
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JC47999-3	JC47999-3	Limits
877-09-8	Tetrachloro-m-xylene	119%	99%	97%	80%	25-135%
877-09-8	Tetrachloro-m-xylene	86%	88%	80%	69%	25-135%
2051-24-3	Decachlorobiphenyl	157%* [b]	186%* [b]	149%	66%	10-156%
2051-24-3	Decachlorobiphenyl	146%	171%* [b]	152%	125%	10-156%

(a) Confirmation run.
(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.