CORRECTIVE ACTION PLAN (CP-10)

Lalani Enterprises Highway 22 Quick Stop ADEM Facility ID: 25219-021-014089 UST Incident Number: UST18-11-01 4014 4th Avenue North Clanton, Alabama 35045 (Chilton County)

November 23, 2019

<u>Prepared for:</u> Lalani Enterprises 4014 4th Avenue North Clanton, Alabama 35045

Prepared by: SPHERE 3 ENGINEERING, INC (Alabama General Contractor #49971) 3433 Sierra Drive Hoover, Alabama 35216 Phone: (205) 403-3317

SPHERE 3 File: LE.22QS.10



CERTIFICATION PAGE

I certify under penalty of law that this Corrective Action Plan and all specifications, and technical data submitted within were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiring of the person or persons who directly gathered the enclosed information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

Signature

Greg Hoagland, P.E.



21581

Registration Number

November 23, 2019

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UST RELEASE FACT SHEET

GENERAL INFORMATION:

SITE NAME: Highway 22 Quick Stop

ADDRESS: 4014 4th Avenue North, Clanton, Chilton County, AL

FACILITY I.D. NO.: 25219-021-014089

UST INCIDENT NO .: UST18-11-01

RESULTS OF EXPOSURE ASSESSMENT:

How many private drinking water wells are located within 1,000 feet of site?	None
How many public water supply wells are located within 1 mile of site?	None
Have any drinking water supply wells been impacted by contamination from this release?	<u>No</u>
Is there an imminent threat of contamination to any drinking water wells?	No
Have vapors or contaminated groundwater posed a threat to the public?	No
Are any underground utilities impacted by the release?	No
Have surface waters been impacted by the release?	No
Is there an imminent threat of contamination of surface waters?	No

What is the type of surrounding population?

Commercial/Residential

CONTAMINATION DESCRIPTION:	
Type of contamination at site:	{ X } Gasoline { X } Diesel { } Waste Oil { } Kerosene { } Other:
Free product present in wells?	{ X } Yes { } No
Max. benzene/MTBE/naphthalen 39.400 mg/kg benzene / 3.830 i	e concentrations measured in soil: mg/kg MTBE / 32.900 mg/kg naphthalene
Max. benzene/MTBE/naphthalen 14.500 mg/L benzene / 25.600 i	e concentrations in groundwater: mg/L MTBE / 2.260 mg/L naphthalene

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ADEM UST SITE CLASSIFICATION SYSTEM CHECKLIST

Please read all of the following statements and mark either yes or no if the statement applies to your site. If you have conducted a Preliminary or Secondary Investigation, all questions should be answered. Closure site assessment reports may not provide you with all the necessary information, but answer the statements with the knowledge obtained during the closure site assessment.

Highway 22 Quick Stop
4014 4 th Avenue North
Clanton (Chilton County) Alabama 35045
25219-021-014089
UST18-11-01
Mr. Peter Lalani
4014 4th Avenue North, Clanton, Alabama 35045
Jonathan A. Hunter, P.G.
SPHERE 3 Engineering, Inc.
3433 Sierra Drive; Hoover, Alabama 35216

CLASSIFICATION	DESCRIPTION	YES	NO
CLASS A	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
A.1	Vapor concentrations at or approaching explosive levels that could cause health effects, are present in a residence or building.		\boxtimes
A.2	Vapor concentrations at or approaching explosive levels are present in subsurface utility system(s), but no buildings or residences are impacted.		\boxtimes
CLASS B	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
B.1	An active public water supply well, public water supply line, or public surface water intake is impacted or immediately threatened.		\boxtimes
B.2	An active domestic water supply well, domestic water supply line or domestic surface water intake is impacted or immediately threatened.		\boxtimes
B.3	The release is located within a designated Wellhead Protection Area I.		
CLASS C	IMMEDIATE THREAT TO HUMAN HEALTH, HUMAN SAFETY OR SENSITIVE ENVIRONMENTAL RECEPTOR		
C.1	Ambient vapor/particulate concentrations exceed concentrations of concern from an acute exposure, or safety viewpoint.		
C.2	Free product is present on the groundwater, at ground surface, on surface water bodies, in utilities other than water supply lines, or in surface water runoff.		

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CLASSIFICATION	DESCRIPTION	YES	NO
CLASS D	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR		
	SENSITIVE ENVIRONMENTAL RECEPTORS		
D.1	There is a potential for explosive levels, or concentrations of		
	vapors that could cause acute effects, to accumulate in a		
	residence or other building.		
D.2	A non-potable water supply well is impacted or immediately		
	threatened.		
D.3	Shallow contaminated surface soils are open to public access,		
	and dwellings, parks, playgrounds, day care centers, schools or		
	similar use facilities are within 500 feet of those soils.		
CLASS E	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR		
	SENSITIVE ENVIRONMENTAL RECEPTORS		
E.1	A sensitive habitat or sensitive resources (sport fish,		
	economically important species, threatened and endangered		
	species, etc.) are impacted and affected.		
CLASS F	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR		
	SENSITIVE ENVIRONMENTAL RECEPTORS		
F.1	Groundwater is impacted and a public well is located within 1		
	mile of the site.		
F.2	Groundwater is impacted and a domestic well is located within		
	1,000 feet of the site.		
F.3	Contaminated soils and/or groundwater are located within		
	designated Wellhead Protection Areas (Areas II or III).		
CLASS G	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR		
	SENSITIVE ENVIRONMENTAL RECEPTORS		
G.1	Contaminated soils and/or groundwater are located within areas	\boxtimes	
	vulnerable to contamination from surface sources.		
GLASS H	SHORT TERM THREAT TO HUMAN HEALTH, SAFETY, OR		
	SENSITIVE ENVIRONMENTAL RECEPTORS		
H.1	Impacted surface water, stormwater or groundwater discharges		
	within 500 feet of a surface water body used for human drinking		
	water, whole body water-contact sports, or habitat to a		
	protected or listed endangered plant and animal species.		
CLASS I	LONG TERM THREAT TO HUMAN HEALTH, SAFETY, OR		
	SENSITIVE ENVIRONMENTAL RECEPTORS		
l.1.	Site has contaminated soils and/or groundwater but does not		\square
	meet any of the above mentioned criteria.		

ADDITIONAL COMMENTS:

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Complete the classification evaluation questions listed above. Upon completion, determine the highest rank of the site (A.1 is the highest rank) based on the statements answered with a yes.

Enter the determined classification ranking:	C.2

Corrective Action Plan Certification

This Corrective Action Plan (CAP) has been developed under the guidance of and certified by Mr. Greg Hoagland, P.E., Alabama Professional Engineer #21581. The CAP certification page is presented at the beginning of this report.

INTRODUCTION

Executive Summary

As requested by the Alabama Department of Environmental Management (ADEM), this CAP has been prepared for the Lalani Enterprises facility known as Highway 22 Quick Stop, located at 4014 4th Avenue North, Clanton, Alabama (Figures 1 and 2). The subject facility has been impacted by a release of gasoline and/or diesel fuel, as identified below:

Facility I.D.: 25219-021-014089 Incident No.: UST18-11-01

CAP Objectives

The objective of the CAP is to assess that the dissolved Chemicals of Concern (COCs) concentrations and free product (if present), which characterize the subsurface plume at the facility, are being reduced and recovered by remediation by natural attenuation (RNA) supplemented with Mobile-Enhanced Multiphase Extraction (MEME) events.

Based on the results of the approved Alabama Risk Based Corrective Action (ARBCA) Tiers 1 and 2 evaluations, RNA supplemented with MEMEs may be a viable and economical method of corrective action (CA). MEMEs will provide physical removal of the dissolved COCs and free product (if present) at or near the incident source, while RNA will be used to monitor the natural reduction of dissolved COCs though degradation and possibly microbial consumption. The CA would be considered complete upon the confirmation of the reduction of dissolved COCs concentrations, through groundwater monitoring, to meet the Site Specific Target Levels (SSTLs) established by the ARBCA Tier 2 evaluation.

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SUMMARY OF PREVIOUSLY CONDUCTED SITE ACTIVITIES

Site Location and Description

The subject facility is located in the northwest ¼ of Section 4, Township 21 North, Range 14 East and at 32°49'59.25" North Latitude and 86°40'32.97" West Longitude (Figure 1). The physical address of the facility is 4014 4th Avenue North, Clanton, Chilton County, Alabama. Land surface elevation at the site is approximately 645 feet above mean sea level (amsl).

The facility property is currently occupied by an active service station / convenience store and liquor store, with an attached former residence. Gasoline currently is stored and sold at the facility. The facility is surrounded by commercial and residential properties. According to the Alabama Department of Environmental Management (ADEM) Underground Storage Tank (UST) Site Classification System Checklist, the facility has a ranking of C.2.

Description of Release

SPHERE 3 Engineering, Inc. (SPHERE 3) was contracted by Lalani Enterprises to provide Response Action Contractor services for their UST facility known as Highway 22 Quick Stop in Clanton, Alabama. This CAP Evaluation Report was requested by the ADEM in a letter dated May 3, 2019. No discrepancies or irregularities were noted during operation of the UST system, and the volume of the release is not known.

Geologic and Hydrogeological Setting

According to Water-Resources Investigations Report 86-4360 (Scott and others, 1987), the subject site is located in the Fall Line Hills physiographic district of the East Gulf Coastal Plain physiographic section in Chilton County, Alabama. The Fall Line Hills is contained between the Northern Piedmont (uplands) to the northeast and the Alluvial Plain to the south. The area is characterized by flat to moderately-rolling, sandy, uplands dissected by deeply-entrenched, south-flowing streams. The land surface elevation ranges from 160-850 feet amsl. Drainage is toward the east and into the Coosa River.

Chilton County is characterized by a highly variable geologic setting. Sedimentary rocks, ranging in age from Cambrian to Mississippian are present in the northwestern part of the county. The rocks strike northeastward and dip southeast. The rocks are extremely folded and faulted and consist of limestone, dolomite, chert, and shale. Metamorphic and igneous rocks are present in the northeastern part of the county. These rocks are generally impermeable and consist of schist, gneiss, marble, quartzite and granite. Thrust faults and intrusive igneous complexes are present. Foliation planes in the metamorphic rocks typically dip toward the southeast.

The target property is situated immediately above a coastal plains unit identified as the Coker Formation. The outcrop of this formation commences a short distance north and east of the target property, overlying the rocks of the Northern Piedmont (Higgins Ferry Group). The Coker consists of a basal bed of non-marine gravel, sand and clay and an upper zone of marine sand and clay beds. These two zones are separated by a thick (50 feet) layer of clay. The formation thickness ranges from 100 feet to more than 1,000 feet across the region. The Coker is

described as light-gray to moderately-reddish-orange, poorly sorted, clayey, gravelly, fine- to very-coarse sand interbedded with grayish-green to moderately red sandy clay and well-sorted medium-grain quartz sand.

The Coker Formation is a major aquifer. Significant volumes of groundwater occur within the sand beds of this formation. Although the City of Clanton does not utilize groundwater wells, the Chilton Water Authority operates nine public water supply wells.

Soil borings installed at the facility as part of site assessment activities conducted to date encountered 40 feet of natural (unconsolidated) soil materials. The soils at each of those boring locations indicated a horizontal attitude and were consistent in lithology with depth. The general soil sequence consists of an upper sequence of variegated, slightly sandy (fine-grained) clay with mica flakes and dark mineral grains. The intermediate sequence consisted of tan-graybrown, reddish-brown, and purplish-brown, very micaceous, slightly clayey, sand (fine- to mediumgrained quartz), containing biotite and other dark mineral grains. The basal layer (below 26 feet) was formed by tan, light orange, and light gray, fine- to medium-grained silty to sandy clay. Competent bedrock (auger refusal) was not encountered. The uppermost saturated zone of groundwater was encountered between 14 and 17 feet below ground surface (bgs).

Area Water Wells and Other Potential Environmental Receptors

The subject property is located at 4014 4th Avenue North (State Road 22) in Clanton (Chilton The property is located along north highway frontage, just west of the County), Alabama. intersection with Willie Hamilton Road. The area is characterized by light-residential and agricultural/wooded land usage. The property is bound on the west by agricultural land (row crops) and a distant residential dwelling. Agricultural land and residential dwellings along Gowan Road adjoin the property on the north. Immediately adjacent to the east is a vacant restaurant (The Dog House Sandwich Shop). Beyond the restaurant are a residential dwelling and Willie Hamilton Road. The property is bound on the south by 4th Avenue North (State Road 22). Across the highway is a vacant thrift store. Slightly to the southeast is Gonzalez Mexican Food (restaurant). South of the restaurant are a residential dwelling and Pate's Mini-Storage. Across the intersection of Highway 22 and Willie Hamilton Road is the W. A. LeCroy Career Technical A vacant commercial building located approximately 220 feet southeast of the site Center. appears to have been a former service station. Land use in the immediate vicinity of the site is illustrated on Figure 2.

An inventory (area reconnaissance and utility interview) for private water supply wells revealed that there are no known onsite wells. There were no private wells observed or reported within a 1,000 foot radius of the target property. The facility and surrounding properties are supplied water by the Chilton Water Authority.

An inventory of public water supply wells revealed that there are no public water supply wells located within a one mile radius of the facility. The inventory consisted of a telephone interview with Mr. Daniel Cantley, the manager of the Chilton Water Authority. The public water supply is derived from nine public water supply wells which produce from the Coker Formation, Jemison Chert, Knox Group, and Newala Limestone. The filtration plant is located more than five miles

west of the property, on County Road 16 near Sardis, Alabama. A Source Water Assessment (SWA) has been completed which indicates that the target property is not located within the wellhead protection area established by the ADEM for this public source.

Underground utilities identified onsite included only an AT&T telecommunications cable which traverses east-west, 25 feet inside the edge of the road pavement, along the north side of State Road 22. There is no natural gas service to this vicinity (gas is provided by LP containers). The water main (Chilton Water Authority) traverses east-west along the south side of State Road 22. The line crosses under the highway at Willie Hamilton Road (to the east) and service enters the property from the north (behind the store). There were no storm sewers or diversion ditches observed in proximity to the store. There is no municipal sanitary sewer for this property. The property operates with a septic system. The City of Clanton operates a municipal sewer system which currently is not available to this location. The wastewater treatment plant is located greater than five miles away, toward the east-southeast (across Interstate I-65). All electrical power, telephone, cable television, and internet lines are located on overhead poles. Service drops from those lines to the northwest corner of the building. See Figure 4.

Compilation of Previously Conducted Site Remediation Activities

To date, Corrective Action activities conducted as a result of the incident include the soil and groundwater sampling and free product recovery activities associated with the Preliminary and Secondary Investigations, Additional Monitor Well Installation activities, and two interim groundwater monitoring events.

Compilation of Free Product Data from Site Investigations

To date, free product has been detected in monitor well MW-10. On January 10, June 12, September 12, September 19, and October 4, 2019, free product was detected in monitor well MW-10, at apparent thicknesses of 0.07 feet, 2.08 feet, 1.68 feet, 1.54 feet, and 0.81 feet, respectively. To date, approximately 3.5 gallons of free product have been recovered from monitor well MW-10, via manual bailing. Historical monitor well gauging worksheets are provided as Appendix A.

Compilation of Soil Data from Site Investigations

A total of 38 soil samples were submitted for laboratory analysis as part of the investigative activities. These samples were analyzed for COCs benzene, toluene, ethylbenzene and xylenes (BTEX), methyl tert-butyl ether (MTBE) and naphthalene using Environmental Protection Agency (EPA) method 8260B, and for polynuclear aromatic hydrocarbon (PAH) compounds using EPA method 8270C. A summary of the results of the soil analyses is presented in Table 1 and depicted on Figure 5. A copy of the historical laboratory analytical reports is presented as Appendix B.

As shown in Table 1, soil samples yielding COCs concentrations above the SSTLs protective of the Groundwater Resource Protection (GRP) area were detected in soil samples collected from soil borings SB-3, SB-10, SB-13, and SB-DW1.

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			TA	BLE 1			
		HIGHW	AY 22 QUICH	STOP (UST	18-11-01)		
	r	COCs I	N SOILS AN	ALYTICAL S	UMMARY	84	
	DEDTU	DENZENE		ETHYL-	TOTAL	MTRE	NAPH-
BORING	(feet)	(ma/ka)	(mg/kg)	(ma/ka)	(ma/ka)	(ma/ka)	(ma/ka)
SB-1	10	< 0.005	< 0.005	< 0.005	< 0.015	< 0.005	< 0.050
	15	0.185	0.013	0.014	0.277	<0.005	<0.050
SB-2	10	0.011	<0.005	<0.005	<0.015	<0.005	<0.050
	15	0.600	2.140	0.596	3.310	0.476	0.330
SB-3	10	0.151	0.011	0.078	0.161	0.535	<0.050
	15	25.400	344.000	133.000	601.000	2.220	31.900
SB-4	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	0.083	0.269	5.280	24.800	<0.005	7.200
SB-5	10	0.012	0.073	0.011	0.060	<0.005	<0.050
	15	0.046	0.418	0.107	0.654	<0.005	0.094
SB-6	10	0.010	0.046	<0.005	<0.015	<0.005	<0.050
	15	0.016	0.091	0.006	0.030	<0.005	<0.050
SB-7	10	<0.005	0.011	<0.005	<0.015	<0.005	<0.050
	15	<0.005	0.009	<0.005	<0.015	<0.005	<0.050
SB-8	10	0.016	0.086	0.006	0.030	<0.005	<0.050
	15	<0.005	0.022	<0.005	<0.015	<0.005	<0.050
SB-9	10	<0.005	0.005	<0.005	<0.015	<0.005	<0.050
	15	1.040	18.100	9.860	48.300	0.353	5.350
SB-10	10	3.440	62.000	23.400	123.000	1.060	7.300
	15	0.853	15.100	7.800	37.000	0.651	4.180
SB-11	10	0.030	0.128	0.010	0.046	<0.005	<0.050
	15	0.012	<0.005	<0.005	<0.015	0.015	<0.050
SB-12	10	0.006	0.032	<0.005	0.017	<0.005	<0.050
	15	<0.005	0.012	0.013	0.079	<0.005	<0.050
SB-13	10	3.140	74.400	35.400	172.000	0.246	8.550
	15	4.760	105.000	55.200	243.000	2.780	15.900
SB-14	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-15	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-16	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	0.007	<0.050
SSTL GRP	any	1.900	831.000	683.000	858.000	1.760	137.000

Note:

mg/kg – milligrams per kilogram SSTL GRP – Site Specific Target Level protective of the Groundwater Resource Protection area. Bold Print - COC data listed in bold print indicates an exceedance of the GRP SSTL.

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		HIGHW COCs I	TABLE 1 AY 22 QUICH N SOILS AN	Concluded STOP (UST	18-11-01) UMMARY		
BORING	DEPTH (feet)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	MTBE (mg/kg)	NAPH- THALENE (mg/kg)
SB-17	10	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
	15	<0.005	0.008	0.094	0.520	<0.005	<0.050
SB-18	10	< 0.005	< 0.005	<0.005	<0.015	< 0.005	<0.050
	15	<0.005	<0.005	<0.005	<0.015	<0.005	<0.050
SB-DW1	10	5.320	95.600	52.400	240.000	1.550	21.100
	15	39.400	369.000	145.000	616.000	3.830	32.900
SSTL GRP	any	1.900	831.000	683.000	858.000	1.760	137.000
<u>Note</u> : mg/kg – milli SSTL GRP – Bold Print –	grams per - Site Spec	kilogram cific Target Le	vel protective	of the Groun	dwater Resou	urce Protecti	on area.

Compilation of Groundwater Data

As shown on Figure 4, the facility's current monitor well network consists of 18 Type II monitor wells (MW-1 through MW-18) and one Type III monitor well (MW-DW1). The most recent monitor well gauging event at the site was conducted on September 12, 2019. On that date, free product was detected in monitor well MW-10, at an apparent thickness of 1.68 feet. Depths to groundwater as measured in the Type II monitor wells ranged from 12.25 feet below the top of well casing (btoc) in monitor well MW-7 to 18.22 feet btoc in monitor well MW-16. Monitor well MW-6 was dry. Groundwater elevations as measured in the Type II monitor well MW-14 to 630.76 feet amsl in monitor well MW-4. The depth to water in Type III monitor well MW-DW1 was 34.15 feet btoc, and the corresponding groundwater elevation to the southwest, under an average hydraulic gradient of approximately 2.7 feet per 100 feet. The groundwater elevation data collected on September 12, 2019 are presented on Figure 6. Historical monitor well gauging worksheets are provided as Appendix A.

To monitor the dissolved plume, groundwater samples have been collected at each monitor well as part of the various phases of investigative activities. Copies of the historical groundwater laboratory analytical reports are presented as Appendix C. A historical summary of dissolved COCs data is presented in Appendix D.

As indicated in the historical dissolved COCs summary in Appendix D, dissolved COCs concentrations above the applicable SSTLs have been detected in monitor wells MW-1, MW-2, MW-3, MW-9, MW-11, MW-13, MW-15, and MW-18. During the most recent sampling event of September 12, 2019, dissolved COCs concentrations exceeding applicable SSTLs were detected in monitor wells MW-2, MW-3, MW-9, MW-13, MW-15, and MW-18. By definition, the

presence of free product as previously detected in monitor well MW-10 also constitutes an exceedance of applicable SSTLs for each COC.

The dissolved COCs concentrations as measured during the most recent groundwater sampling event conducted on September 12, 2019 are depicted on Figure 7.

Summary of the ARBCA Evaluation as Compared to Current Data

SSTLs for soil and groundwater have been generated for the facility through a Tier 2 ARBCA evaluation. The results of the Tier 2 evaluation indicated that COCs concentrations exceeding applicable SSTLs were detected in soil samples collected from soil borings SB-2, SB-10, SB-13, and SB-DW1. Specifically, the benzene concentration in the sample collected from the 15-foot depth interval in soil boring SB-3, the 10-foot depth interval in soil boring SB-10, and the 10-foot and 15-foot depth intervals in soil borings SB-13 and SB-DW1 exceeded the applicable SSTL of 1.900 milligrams per kilogram (mg/kg). The MTBE concentration in the sample collected from the 15-foot depth interval in soil borings SB-3, SB-13, and SB-DW1 exceeded the applicable SSTL of 1.760 mg/kg. The SSTLs protective of the GRP for soils are the most stringent of the Tier 2 target levels, including those generated for any reasonably completed human exposure pathways.

Historical groundwater analytical data for the site are summarized in Appendix D. This historical summary also includes the ARBCA Tier 2 SSTLs protective of the GRP area. As shown in this summary, during the most recent groundwater sampling event (September 12, 2019), the dissolved benzene and MTBE concentrations in groundwater samples collected from monitor wells MW-2 and MW-13 exceeded the applicable SSTLs of 0.392 milligrams per liter The dissolved benzene concentration in samples (mg/L) and 1.570 mg/L, respectively. collected from monitor well MW-3 exceeded the applicable SSTL of 0.392 mg/L. Dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-9 exceeded the applicable SSTLs of 0.390 mg/L and 1.560 mg/L, respectively. The dissolved benzene concentration in samples collected from monitor well MW-15 exceeded the applicable SSTL of 0.236 mg/L. Dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-18 exceeded the applicable SSTLs of 0.156 mg/L and 0.625 mg/L, respectively. On September 12, 2019, free product also was detected in monitor well MW-10, at an apparent thickness of 1.68 feet.

Concentration and Distribution of Chemicals of Concern Exceeding SSTLs

The results of the Tier 2 evaluation indicated that COCs concentrations exceeding applicable SSTLs were detected in soil samples collected from soil borings SB-2, SB-10, SB-13, and SB-DW1. The benzene concentration in the sample collected from the 15-foot depth interval in soil boring SB-3, the 10-foot depth interval in soil boring SB-10, and the 10-foot and 15-foot depth intervals in soil borings SB-13 and SB-DW1 exceeded the applicable SSTL of 1.900 milligrams mg/kg. The MTBE concentration in the sample collected from the 15-foot depth interval in soil borings SB-3, SB-13, and SB-DW1 exceeded the applicable SSTL of 1.900 milligrams mg/kg.

The most recently measured dissolved benzene and MTBE concentrations in groundwater samples collected from monitor wells MW-2 and MW-13 exceeded the applicable SSTLs of

0.392 mg/L and 1.570 mg/L, respectively. The dissolved benzene concentration in samples collected from monitor well MW-3 exceeded the applicable SSTL of 0.392 mg/L. Dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-9 exceeded the applicable SSTLs of 0.390 mg/L and 1.560 mg/L, respectively. The dissolved benzene concentration in samples collected from monitor well MW-15 exceeded the applicable SSTL of 0.236 mg/L. Dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-15 exceeded the applicable SSTL of 0.236 mg/L. Dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-15 exceeded the applicable SSTL of 0.236 mg/L. Dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-15 exceeded the applicable SSTL of 0.236 mg/L. Dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-15 exceeded the applicable SSTL of 0.236 mg/L. Dissolved benzene and MTBE concentrations in groundwater samples collected from monitor well MW-18 exceeded the applicable SSTLs of 0.156 mg/L and 0.625 mg/L, respectively. On September 12, 2019, free product also was detected in monitor well MW-10, at an apparent thickness of 1.68 feet.

CORRECTIVE ACTION PLAN

Source Area Remediation

The main source area appears to be located in the vicinity of monitor wells MW-3 and MW-10. Free product has been detected in monitor well MW-10. Significant concentrations of dissolved COCs exist in an area generally defined by Type II monitor wells MW-1, MW-2, MW-3, MW-9, MW-13, and MW-18. The objectives of source area remediation will be to physically recover any residual free product (if present), and to recover groundwater impacted with dissolved-phase COCs at concentrations exceeding applicable SSTLs. In an effort to achieve these objectives, quarterly Mobile-Enhanced Multiphase Extraction (MEME) events are proposed as the remedial technology. It is assumed that each MEME event will be conducted during the overnight hours for a duration of eight hours, and will target the source area.

Two (2) Type II recovery monitor wells will be installed, and will be utilized as extraction points during the MEME events. As shown on Figure 9, the recovery monitor wells will be installed in an effort to mirror existing monitor wells MW-3 and MW-10. Based on the results of the most recent groundwater sampling event, installation of three (3) additional Type II monitor wells also is proposed to further define the lateral extent of migration of the dissolved COCs plume. The proposed locations for these wells are to the west-southwest of monitor well MW-15, and to the southeast and southwest of monitor well MW-18.

The borings for the proposed recovery monitor wells will be installed using 10.25-inch outside diameter hollow-stem auger drilling equipment, while the borings for the four additional Type II monitor wells will be installed using 7.25-inch outside diameter augers. Each boring will be terminated within unconsolidated soils. The boreholes for each monitor well will be terminated at an approximate depth of 20 feet bgs. The recovery monitor wells subsequently will be constructed with 4-inch diameter schedule 40 polyvinyl chloride (PVC) materials, and the four additional Type II wells will be constructed with 2-inch diameter schedule 40 PVC materials. The construction of each well will include 15 feet of 0.01-inch slotted well screen. A graded sand pack will be emplaced in the well annulus from the bottom of each well to approximately two feet above the top of the well screen. This sand pack will be followed by a minimum of one foot of bentonite seal, and grout to near the ground surface. The surface completion for each of the proposed wells will include a steel manhole cover (12-inch diameter cover for the recovery monitor wells) embedded within a 2-

foot x 2-foot square concrete pad, poured and finished to match the existing land grade.

During installation of the soil borings for the five (5) proposed wells, soil samples will be collected at five-foot intervals. Each soil sample will be field-screened with a photoionization detector (PID) for volatiles. Two (2) soil samples from each soil boring will be submitted for laboratory analysis of COCs BTEX, MTBE and Naphthalene using EPA Method 5035/8260B. Each soil sample also will be analyzed for moisture content using ASTM Method D2216.

Each proposed well will be allow to equilibrate prior to development. To develop each new well, SPHERE 3 personnel will attempt to purge an equivalent of four well volumes of groundwater from each well using new, single-use disposal bailers. Actual purge volumes will depend upon the groundwater recharge rates at the time of development.

A minimum of 24 hours after development of the five (5) proposed wells, each incident monitor well (including the two new recovery monitor wells and the four additional Type II monitor wells) will be purged of an equivalent of three well volumes of groundwater, or until dry. Groundwater samples will then be collected from each well. Samples collected from each well will be submitted for BTEX, MTBE and Naphthalene analysis using EPA Method 8260B. All purge liquids generated during the development and sampling activities will be temporarily stored on-site in a polyethylene tote, and will be evacuated and disposed during a subsequent MEME event.

All waste soils generated as part of the additional well installation will be temporarily stored in a lined roll-off box container. One soil sample will be collected from the cuttings, and will be submitted for total lead analysis using EPA Method 6010B. Upon completion of the proposed drilling activities, the waste soils will be disposed under the previously-approved waste certification from the ADEM Land Division (expiration date August 31, 2020). If this certification expires prior to completion of the proposed activities, receipt of a new disposal authorization from the ADEM Land Division will be required prior to disposal.

RNA is recommended for the dissolved plume associated with this incident because dissolved COCs concentrations at the facility are anticipated not to exceed SSTLs for any reasonably completed human exposure pathway. Consequently, the objective of the CAP will be to reduce the dissolved COCs plume concentrations to levels below the SSTLs protective of the GRP area through a natural degradation process.

To confirm the natural degradation process of the dissolved COCs, a quarterly groundwater monitoring program will be implemented. Groundwater monitoring will be performed to measure the success of the MEME events and to confirm that the dissolved COCs concentrations are decreasing to levels below the applicable SSTLs.

Estimated Duration of Clean-up

The estimated time (or duration) of clean-up has been based solely on experience. The duration is estimated as four years. To estimate the duration, SPHERE 3 assumes:

- no more than 12 quarterly MEME events will be required to recover any undiscovered source area free product and significantly reduce the magnitude of the source area dissolved COCs, and;
- all dissolved COCs concentrations will be stable at or below their respective SSTL within 48 months of CAP implementation.

If, after 48 months of CAP implementation, additional groundwater re-sampling or MEME events are necessary to confirm the dissolved plume degradation, the frequency of the groundwater re-sampling/MEME events may be adjusted to a 4-month interval. If, after 24 months of CAP implementation, the dissolved COCs concentrations at the plume centroid (Type II monitor wells MW-2, MW-3, MW-10, and MW-13) are not approaching or are not measured at levels below 50% of their current concentrations, an amended CAP may be submitted to propose more aggressive techniques to expedite closure.

Implementation Cost Proposals

Four quarterly ATTF Cost Proposals, CP-11 through CP-14, have been prepared and submitted herewith for the first year of CAP implementation.

PERSONNEL AND SUBCONTRACTOR QUALIFICATIONS

The activities associated with the CAP were completed by the following SPHERE 3 personnel/subcontractor:

Project Manager:	Greg Hoagland, P.E.
Report Preparation:	Jonathan A. Hunter, P.G. and Greg Hoagland, P.E.
Report Drafting:	Mark Pate
Report Production:	Karen Embry
Report Review:	Greg Hoagland, P.E.

The project was managed and supervised by Greg Hoagland, Professional Engineer. The report was prepared by Mr. Hoagland and Mr. Hunter. Mr. Hunter and Mr. Hoagland have conducted numerous Preliminary and Secondary Investigations, and have prepared numerous CAPs under the Alabama Tank Trust Fund (ATTF).











LEGEND

Soil Exploration Boring

Soil Exploration Boring/Type II Monitor Well

Soil Exploration Boring/Type III Monitor Well





Þ	Soil Exploration Boring
Þ	Soil Exploration Boring/Type II Monitor Well
Þ	Soil Exploration Boring/Type III Monitor Well
	Sample Collection Depth (feet bas)
В	Benzene Concentration (mg/kg)
Т	Toluene Concentration (mg/kg)
Е	Ethylbenzene Concentration (mg/kg)
X	Total Xylenes Concentration (mg/kg)
TBE	Methyl-Tertiary-Butyl-Ether Concentration (mg/kg)
APH	Naphthalene Concentration (ma/ka)

	15	l
	0.185	1
	0.013	1
	0.014	1
	0.277	
	< 0.005	
	< 0.050	l
_		
	15	
_	10	L
1	0.012	ŀ
	0.012	
	0.012 <0.005 <0.005	
	0.012 <0.005 <0.005 <0.015	
	0.012 <0.005 <0.005 <0.015 0.015	





♦	Soil Exploration Boring
•	Soil Exploration Boring/Type II Monitor Well
Ŷ	Soil Exploration Boring/Type III Monitor Well
В	Dissolved Benzene Concentration (mg/L)
Т	Dissolved Toluene Concentration (mg/L)
E	Dissolved Ethylbenzene Concentration (mg/L)
Х	Dissolved Total Xylenes Concentration (mg/L)
MTBE	Dissolved Methyl-Tertiary-Butyl-Ether Concentration
NAP	Dissolved Naphthalene Concentration (mg/L)
_	Dissolved MTBE Isoconcentration Contour (mg/L)
	Groundwater Flow Direction (9/12/2019)

).126]
0.005	
).009	
).052	
0.028	
0.003	
	_







LEGEND

Soil Exploration Boring

- Soil Exploration Boring/Type II Monitor Well
- Soil Exploration Boring/Type III Monitor Well
- Proposed Soil Exploration Boring/Type II Monitor Well







CLIENT: LOCATION:	Lalani EnterprisesFHighway 22 Quick Stop (UST18-11-01)F4014 4th Avenue NorthFClanton, Alabama 35045F				Page: File Numbe Event Date Field Perso	er: : onnel:	1 of 1 LE.22QS.01 8/23/2018 JWJ
Pre - Post -	t [
Monitor Well Identification	Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Free Product Surface Elevation (feet)	Water Surface Elevation (feet)	Free Product Thickness (feet)	Potentiometric Surface Elevation (feet)
MW-1	644.75	ND	14.60	NA	630.15	NA	630.15
MW-2	644.93	ND	13.02	NA	631.91	NA	631.91
MW-3	643.21	ND	12.62	NA	630.59	NA	630.59
MVV-4							

Notes:



CLIENT:	Lalani Enterprises
LOCATION:	Highway 22 Quick Stop (UST18-11-01)
	4014 4th Avenue North
	Clanton, Alabama 35045

Page:	1 of 1
File Number:	LE.22QS.02
Event Date:	1/10/2019
Field Personnel:	HTB; JWJ

Pre - MEME Event	Sampling Event	
Post - MEME Event	Free Product Recovery	[

Post - MEME Event

Depth to Monitor Well Casing Depth to Free Product Water Free Product Potentiometric Identification Elevation Free Product Water Surface Surface Thickness Surface Elevation Elevation Elevation (feet) (feet) (feet) (feet) (feet) (feet) (feet) MW-1 644.75 ND 13.45 NA 631.30 NA 631.30 644.93 ND 13.82 NA NA MW-2 631.11 631.11 MW-3 643.21 ND 13.22 NA NA 629.99 629.99 MW-4 644.78 ND 10.25 NA NA 634.53 634.53 MW-5 642.83 ND 10.75 NA 632.08 NA 632.08 ND 9.12 MW-6 639.52 NA 630.40 NA 630.40 ND 8.27 640.08 NA NA **MW-7** 631.81 631.81 MW-8 641.45 ND 9.90 NA NA 631.55 631.55 642.78 ND **MW-9** 12.91 NA NA 629.87 629.87 645.04 14.05 630.99 0.07 **MW-10** 14.12 630.97 630.92 644.90 ND 13.92 **MW-11** NA 630.98 NA 630.98 644.53 ND 13.13 NA NA **MW-12** 631.40 631.40 MW-13 644.38 ND 12.53 NA NA 631.85 631.85 ND NA MW-DW1 643.52 32.01 NA 611.51 611.51

Notes:



CLIENT:	Lalani Enterprises
LOCATION:	Highway 22 Quick Stop (UST18-11-01)
	4014 4th Avenue North
	Clanton, Alabama 35045

Page:	1 of 1
File Number:	LE.22QS.04
Event Date:	6/12/2019
Field Personnel:	HTB; JWJ

Pre - MEME Event

Sampling Event

Free Product Recovery



Monitor Well	Casing	Depth to	Depth to	Free Product	Water	Free Product	Potentiometric
Identification	Elevation	Free Product	Water	Surface	Surface	Thickness	Surface
				Elevation	Elevation		Elevation
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	644.75	ND	13.98	NA	630.77	NA	630.77
MW-2	644.93	ND	14.30	NA	630.63	NA	630.63
MW-3	643.21	ND	14.00	NA	629.21	NA	629.21
MW-4	644.78	ND	12.02	NA	632.76	NA	632.76
MW-5	642.83	ND	12.10	NA	630.73	NA	630.73
MW-6	639.52	ND	16.75	NA	622.77	NA	622.77
MW-7	640.08	ND	10.16	NA	629.92	NA	629.92
MW-8	641.45	ND	12.16	NA	629.29	NA	629.29
MW-9	642.78	ND	14.15	NA	628.63	NA	628.63
MW-10	645.04	14.39	16.47	630.65	628.57	2.08	630.13
MW-11	644.90	ND	14.16	NA	630.74	NA	630.74
MW-12	644.53	ND	13.69	NA	630.84	NA	630.84
MW-13	644.38	ND	13.42	NA	630.96	NA	630.96
MW-14	640.92	ND	12.70	NA	628.22	NA	628.22
MW-15	642.98	ND	14.80	NA	628.18	NA	628.18
MW-16	644.75	ND	16.61	NA	628.14	NA	628.14
MW-17	643.60	ND	14.98	NA	628.62	NA	628.62
MW-18	644.42	ND	15.60	NA	628.82	NA	628.82
MW-DW1	643.52	ND	31.03	NA	612.49	NA	612.49
				1			

Notes:



CLIENT:	Lalani Enterprises
LOCATION:	Highway 22 Quick Stop (UST18-11-01)
	4014 4th Avenue North
	Clanton, Alabama 35045

1 of 1
LE.22QS.05
9/12/2019
HTB; JWJ

Pre - MEME Event

ent

Sampling Event

Free Product Recovery



Post - MEME Event

Monitor Well	Casing	Depth to	Depth to	Free Product	Water	Free Product	Potentiometric
Identification	Elevation	Free Product	Water	Surface	Surface	Thickness	Surface
				Elevation	Elevation		Elevation
	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)	(feet)
MW-1	644.75	ND	15.42	NA	629.33	NA	629.33
MW-2	644.93	ND	15.85	NA	629.08	NA	629.08
MW-3	643.21	ND	15.72	NA	627.49	NA	627.49
MW-4	644.78	ND	14.02	NA	630.76	NA	630.76
MW-5	642.83	ND	13.55	NA	629.28	NA	629.28
MW-6	639.52	ND		•	dry		•
MW-7	640.08	ND	12.25	NA	627.83	NA	627.83
MW-8	641.45	ND	14.46	NA	626.99	NA	626.99
MW-9	642.78	ND	16.15	NA	626.63	NA	626.63
MW-10	645.04	15.72	17.40	629.32	627.64	1.68	628.90
MW-11	644.90	ND	15.70	NA	629.20	NA	629.20
MW-12	644.53	ND	15.20	NA	629.33	NA	629.33
MW-13	644.38	ND	15.03	NA	629.35	NA	629.35
MW-14	640.92	ND	14.91	NA	626.01	NA	626.01
MW-15	642.98	ND	16.67	NA	626.31	NA	626.31
MW-16	644.75	ND	18.22	NA	626.53	NA	626.53
MW-17	643.60	ND	16.70	NA	626.90	NA	626.90
MW-18	644.42	ND	17.26	NA	627.16	NA	627.16
MW-DW1	643.52	ND	34.15	NA	609.37	NA	609.37

Notes:



CLIENT: LOCATION:	Lalani Enterprises Highway 22 Quick Stop (UST18-11-01) 4014 4th Avenue North Clanton, Alabama 35045				Page: File Numbe Event Date Field Perso	1 of 1 LE.22QS.05 9/19/2019 JWJ	
Pre - MEME Event Samplin Post - MEME Event Free Product Re						t [/	
Monitor Well Identification	Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Free Product Surface Elevation (feet)	Water Surface Elevation (feet)	Free Product Thickness (feet)	Potentiometric Surface Elevation (feet)
MW-10	645.04			629.14	627.60	1.54	

Notes:



CLIENT: LOCATION:	Lalani Enterprises Highway 22 Quick Stop (UST18-11-01) 4014 4th Avenue North Clanton, Alabama 35045				Page: File Numbe Event Date Field Perso	1 of 1 LE.22QS.05 10/4/2019 HTB	
Pre - I Post - I]	Sampling Event					
Monitor Well Identification	Casing Elevation (feet)	Depth to Free Product (feet)	Depth to Water (feet)	Free Product Surface Elevation (feet)	Water Surface Elevation (feet)	Free Product Thickness (feet)	Potentiometric Surface Elevation (feet)
MW-10	645.04	16.21	17.02	628.83	628.02	0.81	628.63

Notes:



Sutherland

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Report Date:	August 29, 2018	
Attention:	ttention: Mr. Greg Hoagland		Reference #	39640
Address:	3433 Sierra Drive		P.O. #	LE.22QS.01
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	atrix:	soil	Applytical	
Date Recei	ved:	8/21/18	Analyst	Hageman/Heard
Date Colle	cted:	8/20-21/18	Date of Analysis:	8/24-25/18
Sample Collector:		G. Karstens	Method:	EPA Method 8260B

VOLATILE ORGANICS - BTEX/MTBE								
	FIELD ID							
	SB-1 10'	SB-1 15'	SB-2 10'	SB-2 15'	SB-3 10'	SB-3 15'		
Volatile	LAB ID	Detection						
Organic, ppm	197610	197611	197612	197613	197614	197615	Limit, ppm	
Benzene	BDL	0.185	0.011	0.600	0.151	25.400	0.005	
Toluene	BDL	0.013	BDL	2.140	0.011	344.000*	0.005	
Ethylbenzene	BDL	0.014	BDL	0.596	0.078	133.000	0.005	
Xylenes, o,m,p	BDL	0.277	BDL	3.310	0.161	601.000*	0.015	
MTBE	BDL	BDL	BDL	0.476	0.535	2.220	0.005	
	FIELD ID	FIELD ID						
	SB-4 10'	SB-4 15'						
Volatile	LAB ID	LAB ID					Detection	
Organic, ppm	197616	197617					Limit, ppm	
Benzene	BDL	0.083					0.005	
Toluene	BDL	0.269					0.005	
Ethylbenzene	BDL	5.280					0.005	
Xylenes, o,m,p	BDL	24.800					0.015	
MTBE	BDL	BDL					0.005	

Result is above practical detection limit and below reporting limit *Result is above linear-dynamic range at a dilution of 800:1 BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as ppm of analyte

MH / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kin Dough

Kevin Doriety Analytical Chemist

Quality Environmental Analytical Services

Sutherland

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Report Date:	August 29, 2018		
Attention:	Attention: Mr. Greg Hoagland		Reference #	39640	
Address:	3433 Sierra Drive Hoover, AL 35216		P.O. #	LE.22QS.01	
			Project ID:	Highway 22 Quick Stop	
Sample Ma	atrix:	soil	Extraction Date:	8/24/18	
Date Recei	ved:	8/21/18	Analyst:	Hageman/Heard	
Date Collec	cted:	8/20-21/18	Date of Analysis:	8/29/18	
Sample Collector:		G. Karstens	Method:	EPA Method 8270C	

POLYNUCLEAR AROMATIC HYDROCARBONS									
	FIELD ID								
	SB-1 10'	SB-1 15'	SB-2 10'	SB-2 15'	SB-3 10'	SB-3 15'			
Polynuclear	LAB ID	Detection							
Aromatics, ppm	197610	197611	197612	197613	197614	197615	Limit, ppm		
Acenaphthene	BDL	BDL	BDL	BDL	BDL	0.167	0.050		
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	0.114	0.050		
Anthracene	BDL	BDL	BDL	BDL	BDL	0.106	0.050		
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Fluoranthene	BDL	BDL	BDL	BDL	BDL	0.071	0.050		
Fluorene	BDL	BDL	BDL	BDL	BDL	0.469	0.050		
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Naphthalene	BDL	BDL	BDL	0.330	BDL	31.900	0.050		
Phenanthrene	BDL	BDL	BDL	BDL	BDL	0.585	0.050		
Pyrene	BDL	BDL	BDL	BDL	BDL	0.182	0.050		

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)
Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Report Date:	August 29, 2018		
Attention:	Mr. Greg	g Hoagland	Reference #	39640	
Address:	3433 Sie	erra Drive	P.O. #	LE.22QS.01	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Some la Ma	. tuituu	11	E de la De		
Sample Ma	urix:	son	Extraction Date:	8/27/18	
Date Recei	ved:	8/21/18	Analyst:	Hageman/Heard	
Date Collec	cted:	8/20/18	Date of Analysis:	8/29/18	
Sample Collector:		G. Karstens	Method:	EPA Method 8270C	

POL	YNUCL	EAR AR	OMATIC HYDRO	CARBONS
	FIELD ID	FIELD ID		
Polynuclear Aromatics, ppm	LAB ID	LAB ID		Detection
Acenaphthene	BDI	13/01/ BDI		Limit, ppm
Acenaphthylene	BDL	BDL		0.050
Anthracene	BDL	BDL		0.050
Benzo(a)anthracene	BDL	BDL		0.050
Benzo(b)fluoranthene	BDL	BDL		0.050
Benzo(k)fluoranthene	BDL	BDL		0.050
Benzo(ghi)perylene	BDL	BDL		0.050
Benzo(a)pyrene	BDL	BDL		0.050
Chrysene	BDL	BDL		0.050
Dibenzo(ah)anthracene	BDL	BDL		0.050
Fluoranthene	BDL	BDL		0.050
Fluorene	BDL	0.128		0.050
Indeno(1,2,3-cd)pyrene	BDL	BDL		0.050
Naphthalene	BDL	7.200		0.050
Phenanthrene	BDL	0.158		0.050
Pyrene	BDL	BDL		0.050

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Donet

Kevin Doriety Analytical Chemist

 Is the client and on report? 	the sample collector(s) accurately noted	NO	YES	NO
2. Do all dates mat	tch the COC on the report?	NO	YES	NO
3. Is the purchase noted on report	order ID (PO) and project ID accurately,		YES	YES YES
4. Are all methods	and method references correct on report	? NO	YES	NO
5. Do the Field ID COC?	(s) and the Lab ID(s) correspond to the	NO	TYPS	NO
6. Is the report for	matted correctly?	NO	YES	NO YES
7. Does the follow printout inform	ing information on report correspond to t ation from the analytical instrumentation	he :	/	
	Sample Matrix	NO	YPS	NO YES
	Analyst	NO	YES	NO YES
	Analysis Date/Time	NO	YES	NO
	Analyte concentration	NO	YES	NO
	Units	NO	YES	NO
	Dilution Factors/Conversions	NO	YES	NO
	Detection/Reporting/Quant. Limits	NO	YES,	NO YDS
	QC Reviewed:	1	YES	YRS
	Initial*:	F	PH	mst
	m MJH = Michael Heard, KD = Ke	vin Doriety, M	SH = Matt Hagema	in, $\mathbf{KH} = \mathbf{Kelly}$ Hester
PDF: <u>Hoagla</u>	nd, Hunter, arctence Invoic	e #	39640	
Notes:		Suthe	rland Environmenta	l Co., Inc.

Sample Check-in Form	n		
Date Received: 8/2118 Invoice #	39	640	
Method of Delivery: Mand Client:	Sph	ere	3_
1. Did any containers arrive broken?	YES	NØ	
* If so, please state field ID with analysis of broken sample(s)			
2. Were cooler(s) sealed upon arrival?	Yes	NO	NA
3. Were the samples received at the proper teamperature $(4^{\circ}C + 2^{\circ}C)? \dots$	YES	NO	NA
4. Did a chain of custody accompany the samples?	. VES	NO	
* Was it properly filled out?	YES	NO	
5. Were correct containers used for the analysis requested?	YES	NO	
6. Were all containers properly preserved?	YES	NO	NA
7. Were all water samples received at the proper pH?	. YES	NO	NA
8. If VOA vials were present, was there any head space?	YES	NO	ŊA
* If so, please state field ID of deficient sample(s):			-
9. Were all containers properly labeled and match chain of custody?	YES	NO	
10. Did containers arrive within holding time of analysis?	. YES	NO	
* If not, please state field ID and analysis of sample(s) out of holding time	e:		
11. Was client informed of any/all deficiencies in sample check-in?	YES	NO	NA
12. Were any samples rejected?	YES	NO	
* If so, please state field ID of rejected sample(s):		1	
Sample Custodian (signed):			



COMPANY, INC.		Birmir	ngham	n, AL	352	33			F	ax:	20	5 51	31 9	950)4												EN	GI	NI	EEF	RIN	IG,	INC
Consultant Name:	SPHERE 3 E	ngineerii	ng, Inc																	P	age #	P	ade	1 of	1								
Address:	3433 Sierra D	rive				ANY CONT													I	nvoi	ce To	: S	PHF	RE 3	S Enc	niner	erina	Inc					
City/State/Zip:	Hoover, Alaba	ama 352	216																1	Rep	ort To	: G	Hoa	alan	d/.1 F	Hunt	er/G	Kars	ten	s/mai	oria	inal	
Client:	Lalani Enterp	rises														1				Pro	Project #: LE 220S 01												
Consultant Project Mgr:	Greg Hoaglar	nd															ı	JST	Inc	ide	nt No.	· U	ST18	8_11.	.01								
Consultant Telephone Number:	(205) 403.331	17				Fa	x No	D.: (205) 40	3.3	318		1		-	2.5		Fa	cilit	v ID #	н <u>н</u>	ahw	av 2	2 01	lick S	Ston						
Sampler Name: (Print)	KNR	STER	20	- Samer	ana manana in 1997											-			Site	Ad	dress	: 40)14 4	1th A	veni	ue N	lorth						
Sampler Signature:	X	ARC	try	41			-			and the second	-	-					Cif	tv. C	Cou	ntv.	State		anto	n C	hiltor	n Co	unty	Ala	ham	12			-
		/				100	-	P	res	en/a	tive	_	T	-	M	latri	~				otato	A.n	ahre	. Fe		100	unty,	Ala	Jam	a	-		
		T						Ť	Tes	liva		Т	+	Т	T	T	Î-			Т	1	An	alyze					+-	10				
Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipper	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	NaOH (Oranne I ahel)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	HNO ₃ (Red Label)	None (black Label) Groundwater	U ou nu water Mastewater	vvastewater Drinkinn Water	Sludge	Soil	Other (specify): WATER	3TEX/MTBE 8260B	AH 8270C	TEMPERATURE							USH TAT (Pre-Schedule	AT request (in Bus. Days	DF Results (yes or no)		ue Date of Report	
SB-1 10 1971010	820118	1015	i	X			H	+	1	Н		1,		+	+					-		+	+			+	-	-	E	-	-		
SB-1 15' 1971011	1-110	NDK	ì	V		-	\vdash	+	+	+	H	ť		+	+	+	Û	-	$\frac{1}{2}$	<u>^</u>	+	+	+			+	-	+	N	Y			
SP 7 10 10 7617	01.118	1005		~			\vdash	+	+	+	+	ť	<u>`</u>	+	+	+	X		X	X		-	+-			\rightarrow		+	N	Y			
SP 1 10 1012	12/10	111		×			\vdash	+	+	+	-	-1	×	+	-	+	X	-	X	X		-	-			+		+	N	Y			
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SB-5 101 19/1014	04118	0900		Х			Ц	\downarrow	\downarrow	\square)	<		\perp		Х		Х	Х									N	Y			
SB-5 15 191015	SILINK	Dair		Х)	K				X		Х	X									N	Y			
SB-4 101 1971010	2.20/15	143		Х									<				X		X	X								T	N	Y	and the second second	21110-51-	
SB-4 151 197017	3/20/18	1440	4	X					Τ				\langle		Τ		X		x	x						1		T	N	Y	No. Strategy and		(
TEMPERATURE BLANK			1					T	T	Π)	<	T	T			х			x	T				+	+	+	N	Y			
									T	Π		T	T	T	T			1	1	1	-					+	+	+	H	+			
Comments/Special Instructions:							_		-			_	-	-	-	-				1	abor	ator	y Co	omm	ents	3:		11		_			
Λ																					Te Sa VC	mpe mpl)Cs	eratu e Co Free	ntain ontain e of H	pon hers lead	Rece Intac	eipt: ct? ce?	N	7	N			
Relinquished by:	Date	1	Tim	е	Recei	ved b	y:							F	, D	ate	Τ	Т	ime		C De	liver	able	s (ple	ase	circle	e one)		2.00			
Skante	921	18	131	0	X	K	PV	a	1	Û	1		8	S	Z	1/1	8	1:	D	L	evel 2 evel 3	2											
Relinquished by:	Date		Tim	е	Recei	ved b	y:		-					Γ	D	ate		Т	ime	L	evel 4	ĺ,											
																				S	Site Sp	ecif	c - if	yes,	plea	se p	re-scl	nedu	le w	/SUT	HER	LAN	D
																				F	roject	Ma	nage	rora	attach	n spe	ecifc i	nstru	Ictio	ns			

Phone: 205 581 9500

2515 5th Avenue South

SUTHERLAND ENVIRONMENTAL

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Report Date:	August 28, 2018		
Attention:	Attention: Mr. Greg Hoagland		Reference #	39641	
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.01	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Comple Ma	tain.	anil	A		_
Sample Ma	unx:	son	Analytical		
Date Recei	ved:	8/21/18	Analyst:	Kevin Doriety	
Date Colle	cted:	8/21/18	Date of Analysis:	8/27/18	
Sample Collector: C		G. Karstens	Method:	EPA Method 6010B	

	Μ	LLIC ANALYTES
	FIELD ID	
	SOIL COMP-1	
Analyte, mg/Kg	LAB ID	Detection
as Total	197618	Limit, mg/Kr
Lead	8.9	1.0

BDL = Below Detection Limit Detection Limit is Reporting Limit All results expressed as PPM of total analyte

/ QAQC N

EPA Laboratory ID AL01084

Respectfully submitted,

Non Dorg

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Engineering, Inc.	Report Date:	August 28, 2018
Attention:	Mr. Greg	g Hoagland	Reference #	39641
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.01
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	trix:	soil	Analytical	
Date Recei	ved:	8/21/18	Analyst:	R. Currence
Date Colle	ample Matrix: Pate Received: Pate Collected:	8/21/18	Date of Analysis:	8/22/18
Sample Co	llector:	G. Karstens	Method:	EPA Method 418.1 Modified for soils

Т	OTAL PETROLEUM	HYDROCARBONS	
FIELD ID	LAB ID	TPH, PPM	D.L., PPM
SOIL COMP-1	197618	121	10

BDL = Below Detection Limit D.L. = Detection Limit, Practical All results expressed as PPM (mg/Kg)

MAN / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dout

Kevin Doriety Analytical Chemist

 Is the client and the sample colle on report? 	ctor(s) accurately noted	NO	YXS	NO YES
2. Do all dates match the COC on the	ne report?	NO	7785	NO YES
3. Is the purchase order ID (PO) and noted on report?	d project ID accurately	NO	YXS	NO YES
4. Are all methods and method refer	rences correct on report?	NO	¥289	NO YES
5. Do the Field ID(s) and the Lab II COC?	D(s) correspond to the	NO	1760	NO YES
6. Is the report formatted correctly?		NO	YAS	NO YES
7. Does the following information o printout information from the an	in report correspond to the alytical instrumentation:	ne		
Sample Matrix		NO	XES	NO YES
Analyst		NO	THE	NO YES
Analysis Date/	Time	NO	Cart	NO YES
Analyte concer	ntration	NO	XES	NO YES
Units		NO	XED	NO YES
Dilution Factor	rs/Conversions	NO	XES	NO YES
Detection/Repo	orting/Quant. Limits	NO) ARD	NO YES
QC Reviewed:			XE	YES
Initial*:		N,	2XI	10
* MJH	= Michael Heard, KD = Kev	in Doriety, MS	H = Matt Hagemar	n, KH = Kelly Hester
PDF: HOAGland, Hun Karcteric	ter,	#	39641	
Notes:	in , orec	Suther	and Environmental	Co., Inc.

Sample Check-in Form			
Date Received: 8/21/18 Invoice #	30	1641	
Method of Delivery: Mand Client:	SP	rere ?	3
. Did any containers arrive broken?	YES	T to	
* If so, please state field ID with analysis of broken sample(s)			
2. Were cooler(s) sealed upon arrival?	YES	NO	NA
3. Were the samples received at the proper teamperature $(4^{\circ}C + 2^{\circ}C)? \dots$	YES	NO	NA
I. Did a chain of custody accompany the samples?	YES	NO	
* Was it properly filled out?	YES	NO	
. Were correct containers used for the analysis requested?	YES	NO	
. Were all containers properly preserved?	YES	NO	ŊA
. Were all water samples received at the proper pH?	YES	NO	A
. If VOA vials were present, was there any head space?	YES	NO	NA
* If so, please state field ID of deficient sample(s):			
. Were all containers properly labeled and match chain of custody?	YES	NO	
0. Did containers arrive within holding time of analysis?	YES	NO	
* If not, please state field ID and analysis of sample(s) out of holding time:	,		
1. Was client informed of any/all deficiencies in sample check-in?	YES	NO	NA
2. Were any samples rejected?	YES	NO	l
* If so, please state field ID of rejected sample(s):		l	
Sample Custodian (signed):			

																														11.	25	1(91	45	L
SUTHERLAND ENVIRONMEN COMPANY, INC.	TAL	2515 5 Birmir	5th Av nghan	/enuo n, AL	e Sou . 352	uth 233			Ph	one Fax	e: 2 c: 2	205	581 581	98 98	500 504													S	P	IN	EE	RII	N G	, N	3
Consultant Name:	SPHERE 3 E	ngineerii	ng, Inc	.																	Pad	ae #	Pa	ae 1	of 1										
Address:	3433 Sierra D	rive																		Inv	oice	To	SP	HER	E 3	Engi	ineer	rina.	Inc.				-		
City/State/Zip:	Hoover, Alaba	ama 352	216					NC.												Re	por	To	gre	g@	sphe	ere3	.com	n; jor	1@5	pher	e3.c	om, n	nail c	oriaiı	nal
Client:	Lalani Enterpi	rises																		P	roje	ct #:	LE	220	S.0	1			0.						0.01
Consultant Project Mgr:	Greg Hoaglar	nd							_									U	ST	ncio	lent	No.	US	T18	-11-	01									
Consultant Telephone Number:	(205) 403.331	7				Fa	x N	o.:	(20	5) 4	03.	331	8							Faci	lity	D #:	Hig	hwa	y 22	Qu	ick S	Stop							
Sampler Name: (Print)	KARG	191	$\geq \leq$	-		unto Alta Solica	name												S	ite A	Addr	ess	40	4 4	th A	venu	ie N	orth							
Sampler Signature:		A) (C	CISA	sh									_					City	, C	ount	y, S	tate	Cla	ntor	n, Ch	niltor	n Co	unty	, Ala	barr	na	· · · · · · · · · · · · · · · · · · ·			
							Г	F	Pres	serv	ativ	/e	-			Mat	rix		Т				Ana	lvze	For										
Sample ID or Field ID SOIL COMP-1 197418 TEMPERATURE BLANK	Date Sampled	Lime Sampled	No. of Containers Shipped	Grab	X Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	NaOH (Orange Label)	H-SO4 Flastic (Tellow Label) H-SO4 Glass(Yellow Label)	HNO3 (Red Label)	X X None (Black Label)	Groundwater	Wastewater	Drinking Water	Sludge	X Soil		X TPH 418 1	X TEMPERATURE									Z TAT request (in Bus, Davs)	→ → PDF Results (yes or no)		Due Date of Report		
Comments/Special Instructions:																																			
																					La	Ter Sar VO	nper nper nple Cs F	co atur Co ree	mmo e Up ntain of H	ents oon ers lead	s: Rece Intac space	eipt: ct? ce?	A	HA.	N N				
Relinquished by:	9 21	2	Tin 131	ne D	Rece	ived b	2	N	A	(1	a	1			8	Patr 211	e K	1	Tir	ne D	QC Lev Lev	Deli rel 2 rel 3	vera	bles	(ple:	ase	circle	e one	<u>3)</u>						
Relinquished by:	Date		Tin	ne	Rece	ived b	y:			0						Date	e		Tir	ne	Lev Site Pro	rel 4 e Spe ject	ecific Mana	- if y ager	ves, j or a	olea: ttach	se pi n spe	re-sc ecifc	hedu	ule w	/ SU ns	THER	(LAN	ID	

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 10, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	40319
Address:	3433 Sie	erra Drive	P.O. #	LE.22QS.02
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	atrix:	soil	Analytical	
Date Recei	ved:	1/4/19	Analyst:	M. Hageman
Date Colle	cted:	1/3/19	Date of Analysis:	1/10/19
Sample Co	llector:	G. Karstens	Method:	EPA Method 6010B

	ME	FALLIC	ANALYTI	ES	
	FIELD ID				
	SOIL				
	COMP-1				
Analyte, mg/Kg	LAB ID				Detection
as Total	201406]	Limit, mg/Kg
Lead	BDL				1.0

BDL = Below Detection Limit Detection Limit is Reporting Limit All results expressed as PPM of total analyte

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Dorg

Kevin Doriety Analytical Chemist

 Is the client and the sample collector(s) accurately not on report? 	ted NO YES	NO YES
2. Do all dates match the COC on the report?	NO YES	NO YES
3. Is the purchase order ID (PO) and project ID accurate noted on report?	ly NO YES	NO YES
4. Are all methods and method references correct on rep	ort? NO YES	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	e NO YES	NO YES
6. Is the report formatted correctly?	NOYXS	NO YES
7. Does the following information on report correspond printout information from the analytical instrumentat	to the ion:	
Sample Matrix	NO YXS	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO XES	NO YES
Analyte concentration	NO YES	NO YES
Units	NO	NO YES
Dilution Factors/Conversions	NO YXXS	NO YPS
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	YES	YES
<i>Initial*:</i> * MIH = Michael Heard KD =	Kevin Doriety MSH = Matt Hagem	an KH = Kelly Hester
Mari Miender Heard, RD	Revin Donety, Morr - Mail Hagen	an, KIT Kery Hester
PDF: HOAGAND, HUMTER,	aice # 40319	
Notes:	Sutherland Environmenta	Il Co., Inc.

Date Received: 11419 Invoice #	40	319	
Method of Delivery: Mand Client:	SPK	Dere	3
. Did any containers arrive broken?	YES	NO	
* If so, please state field ID with analysis of broken sample(s)			
2. Were cooler(s) sealed upon arrival?	. YES	NO	NA
8. Were the samples received at the proper teamperature $(4^{\circ}C + -2^{\circ}C)? \dots$	YES	NO	NA
Did a chain of custody accompany the samples?	YES	NO	
* Was it properly filled out?	. YES	NO	
. Were correct containers used for the analysis requested?	YES	NO	
. Were all containers properly preserved?	YES	NO	NĄ
. Were all water samples received at the proper pH?	(MB) Mgs	NO	NÁ
. If VOA vials were present, was there any head space?	YES	NO	NA
* If so, please state field ID of deficient sample(s):			1
. Were all containers properly labeled and match chain of custody?	YES	NO	
0. Did containers arrive within holding time of analysis?	YES	NO	
* If not, please state field ID and analysis of sample(s) out of holding time:			
1. Was client informed of any/all deficiencies in sample check-in?	YES	NO	NA
2. Were any samples rejected?	YES	Xo	/
* If so please state field ID of rejected comparison			

																												4	0	3	19	_
SUTHERLAND ENVIRONMEN	TAL 2	2515 5	th Av	enue	Sou	ith			Pho	ne:	20)5 5	81	950	00											S)F	7	16	R	E	3
COMPANY, INC.	E	Birmin	ghan	n, AL	352	33			F	ax:	20)5 5	81	95()4											Е	NC	3 I N	EE	RI	NG	, INC
Consultant Name:	SPHERE 3 Eng	ineerin	g, Inc																	Pa	aae #:	Pag	e 1 (of 1								
Address:	3433 Sierra Driv	/e														_			li	nvoid	e To:	SPH	ERE	3 EI	ngin	eering	a. Inc	c.				
City/State/Zip:	Hoover, Alabam	na 352	16			and and a second													F	Repo	rt To:	greg	@s	ohere	e3.c	om; jo	on@	sphe	ere3.c	com, I	mail	original
Client:	Lalani Enterprise	es									EATIE									Proj	ect #:	LE.2	220	5.02								
Consultant Project Mgr:	Greg Hoagland																ļ	US	Γ Inc	ciden	t No.:	UST	18-	11-01	1							
Consultant Telephone Number:	(205) 403.3317					Fa	x No	o.: [(205) 40	3.3	318							Fa	cility	ID #:	High	nway	22 0	Quic	k Sto	p					
Sampler Name: (Print)	_KXSS	22	-	5	_		-												Site	Add	ress:	4014	4 4th	N Ave	enue	Nort	h					
Sampler Signature:		Ø	Ka	1)	Xo					_							Ci	ty,	Cou	nty, S	State:	Clar	nton,	Chil	lton	Coun	ty, A	laba	ma			
								F	res	erva	ative	9	Τ		N	latrix	ĸ					Analy	ze l	or:				1				
Sample ID or Field ID SOIL COMP-1 201400 TEMPERATURE BLANK	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	× Composite	Field Fittered	Methanol	Sodium Bisulfate	HCI (Blue Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	HNO ₃ (Red Label)	X X None (Black Label)	Groundwater	Vastewater	Sludge	X Soil	Other (specify): WATER	× TOTAL LEAD 6010	X TEMPERATURE								RUSH TAT (Pre-Schedule)	∠ ∠ IN i request (in bus. ∪ays) ∠ ∠ A. PDF Results (yes or no)		Due Date of Report	
Comments/Special Instructions:	L							_		-			-		_		1				abora	tory	Con	imer	nts:	_		<u> </u>				
Relinquished by	Date	3	Tim [0:;	ne 3)	Recei	ived b	y p	N	N	X	2	7,		1	4	Date	,	D.	Time		Ten Sar VO <u>C Deli</u> evel 2	npera nple (Cs Fr <u>verab</u>	ature Conf ree c	Upc aine of He pleas	on R rs Ir ads se ci	eceip ntact? pace? rcle o	t: ? <u>ne)</u>	X #	T N N			
Relinquished by:	Date	t	Tim	ne	Recei	ved b	y:		10	X	1	2	_	ť	D	ate	1	-	Time	Le	evel 4											
						R				0	,									Si Pr	te Spe oject I	ecific - Mana	-ifye gero	es, pl or atta	ease ach	e pre-s specif	sche c in:	dule struct	w/ SL ions	ITHE	RLAN	JD

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3 Engineering, Inc.	Report Date:	January 15, 2019
Attention:	Mr. Greg Hoagland	Reference #	40318
Address:	3433 Sierra Drive	P.O. #	LE.22QS.02
	Hoover, AL 35216	Project ID:	Highway 22 Quick Stop
G 1.14			
Sample Ma	itrix: soil	Analytical	
Date Recei	ved: 1/4/19	Analyst:	Hageman/Heard
Date Collec	cted: 1/2-3/19	Date of Analysis:	1/7-8/19
Sample Co	llector: G. Karstens	Method:	EPA Method 8260B

			2201 V 20140- 201 M				
	VOLAI	ILE OR	GANICS	- BTEX	MTBE		
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB-5 10'	SB-5 15'	SB-6 10'	SB-6 15'	SB-7 10'	SB-7 15'	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, ppm	201386	201387	201388	201389	201390	201391	Limit, ppm
Benzene	0.012	0.046	0.010	0.016	BDL	BDL	0.005
Toluene	0.073	0.418	0.046	0.091	0.011	0.009	0.005
Ethylbenzene	0.011	0.107	BDL	0.006	BDL	BDL	0.005
Xylenes, o,m,p	0.060	0.654	BDL	0.030	BDL	BDL	0.015
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	0.005
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB-8 10'	SB-8 15'	SB-9 10'	SB-9 15'	SB-10 10'	SB-10 15'	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, ppm	201392	201393	201394	201395	201396	201397	Limit, ppm
Benzene	0.016	BDL	BDL	1.040	3.440	0.853	0.005
Toluene	0.086	0.022	0.005	18.100	62.000	15.100	0.005
Ethylbenzene	0.006	BDL	BDL	9.860	23.400	7.800	0.005
Xylenes, o,m,p	0.030	BDL	BDL	48.300	123.000	37.000	0.015
MTBE	BDL	BDL	BDL	0.353	1.060	0.651	0.005

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as ppm of analyte

EPA Laboratory ID AL01084

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 15, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	40318
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.02
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
C. I.M	a e	11		
Sample Ma	atrix:	SOIL	Analytical	
Date Recei	ved:	1/4/19	Analyst:	Hageman/Heard
Date Colle	cted:	1/2-3/19	Date of Analysis:	1/7-8/19
Sample Co	llector:	G. Karstens	Method:	EPA Method 8260B

	VOLAT	TLE OR	GANICS	- BTEX	/MTRE		
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	SB-11 10'	SB-11 15'	SB-12 10'	SB-12 15'	SB-13 10'	SB-13 15'	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, ppm	201398	201399	201400	201401	201402	201403	Limit, ppm
Benzene	0.030	0.012	0.006	BDL	3.140	4.760	0.005
Toluene	0.128	BDL	0.032	0.012	74.400	105.000	0.005
Ethylbenzene	0.010	BDL	BDL	0.013	35.400	55.200	0.005
Xylenes, o,m,p	0.046	BDL	0.017	0.079	172.000	243.000	0.015
MTBE	BDL	0.015	BDL	BDL	0.246	2.780	0.005
	FIELD ID	FIELD ID					
	SB-DW1 10'	SB-DW1 15'					
Volatile	LAB ID	LAB ID					Detection
Organic, ppm	201404	201405					Limit, ppm
Benzene	5.320	39.400					0.005
Toluene	95.600	369.000					0.005
Ethylbenzene	52.400	145.000					0.005
Xylenes, o,m,p	240.000	616.000					0.015
MTBE	1.550	3.830					0.005

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as ppm of analyte

r X / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Do

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 15, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	40318
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.02
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	atrix:	soil	Extraction Date:	1/9/19
Date Recei	ved:	1/4/19	Analyst:	Hageman/Heard
Date Colle	cted:	1/2/19	Date of Analysis:	1/14/19
Sample Co	llector:	G. Karstens	Method:	EPA Method 8270C

POI	POLYNUCLEAR AROMATIC HYDROCARBONS								
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID			
	SB-5 10'	SB-5 15'	SB-6 10'	SB-6 15'	SB-7 10'	SB-7 15'			
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection		
Aromatics, ppm	201386	201387	201388	201389	201390	201391	Limit, ppm		
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Naphthalene	BDL	0.094	BDL	BDL	BDL	BDL	0.050		
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050		

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 15, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	40318
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.02
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Comple Ma	tuin.			
Sample Ma	urix:	SOIL	Extraction Date:	1/10/19
Date Recei	ved:	1/4/19	Analyst:	Hageman/Heard
Date Collec	cted:	1/2-3/19	Date of Analysis:	1/14/19
Sample Co	llector:	G. Karstens	Method:	EPA Method 8270C

POI	POLYNUCLEAR AROMATIC HYDROCARBONS												
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	SB-8 10'	SB-8 15'	SB-9 10'	SB-9 15'	SB-10 10'	SB-10 15'							
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Aromatics, ppm	201392	201393	201394	201395	201396	201397	Limit, ppm						
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Anthracene	BDL	BDL	BDL	BDL	0.083	BDL	0.050						
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Chrysene	BDL	BDL	BDL	BDL	0.068	BDL	0.050						
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Fluoranthene	BDL	BDL	BDL	BDL	0.109	0.066	0.050						
Fluorene	BDL	BDL	BDL	0.066	0.065	0.059	0.050						
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Naphthalene	BDL	BDL	BDL	5.350	7.300	4,180	0.050						
Phenanthrene	BDL	BDL	BDL	0.130	0.342	0.133	0.050						
Pyrene	BDL	BDL	BDL	BDL	0.100	0.060	0.050						

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 15, 2019
Attention:	Mr. Greg	Hoagland	Reference #	40318
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.02
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	atrix:	soil	Extraction Data:	1/10/10
Date Recei	ved:	1/4/19	Analyst:	Hageman/Heard
Date Collec	cted:	1/3/19	Date of Analysis:	1/14-15/19
Sample Co	llector:	G. Karstens	Method:	EPA Method 8270C

POI	POLYNUCLEAR AROMATIC HYDROCARBONS												
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	SB-11 10'	SB-11 15'	SB-12 10'	SB-12 15'	SB-13 10'	SB-13 15'							
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Aromatics, ppm	201398	201399	201400	201401	201402	201403	Limit, ppm						
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Acenaphthylene	BDL	BDL	BDL	BDL	0.070	0.074	0.050						
Anthracene	BDL	BDL	BDL	BDL	BDL	0.061	0.050						
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Fluorene	BDL	BDL	BDL	BDL	BDL	0.112	0.050						
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Naphthalene	BDL	BDL	BDL	BDL	8.550	15,900	0.050						
Phenanthrene	BDL	BDL	BDL	BDL	0.138	0.237	0.050						
Pyrene	BDL	BDL	BDL	BDL	BDL	0.065	0.050						

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 15, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	40318
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.02
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
				-
Sample Ma	atrix:	soil	Extraction Date:	1/10/19
Date Recei	ved:	1/4/19	Analyst:	Hageman/Heard
Date Colle	cted:	1/2/19	Date of Analysis:	1/15/19
Sample Co	llector:	G. Karstens	Method:	EPA Method 8270C

POI	LYNUCL	EAR ARG	MATIC HYDRC	CARBONS
	FIELD ID	FIELD ID		
	SB-DW1 10'	SB-DW1 15'		
Polynuclear	LAB ID	LAB ID		Detection
Aromatics, ppm	201404	201405		Limit, ppm
Acenaphthene	0.064	0.149		0.050
Acenaphthylene	0.070	0.138		0.050
Anthracene	0.052	0.179		0.050
Benzo(a)anthracene	BDL	BDL		0.050
Benzo(b)fluoranthene	BDL	BDL		0.050
Benzo(k)fluoranthene	BDL	BDL		0.050
Benzo(ghi)perylene	BDL	BDL		0.050
Benzo(a)pyrene	BDL	BDL		0.050
Chrysene	BDL	BDL		0.050
Dibenzo(ah)anthracene	BDL	BDL		0.050
Fluoranthene	BDL	BDL		0.050
Fluorene	0.139	0.570		0.050
Indeno(1,2,3-cd)pyrene	BDL	BDL		0.050
Naphthalene	21.100	32.900		0.050
Phenanthrene	0.194	0.665		0.050
Pyrene	0.054	0.107		0.050

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

/ QAQC n X

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dorp

Kevin Doriety Analytical Chemist

 Is the client and the sample collector(s) accurately noted on report? 	NO Y	NO YES
2. Do all dates match the COC on the report?	YES	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO Y	NO YES
4. Are all methods and method references correct on repor	t? NO YBS	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO YES	NO YES
6. Is the report formatted correctly?	NO YES	NO YES
7. Does the following information on report correspond to printout information from the analytical instrumentation	the 1:	
Sample Matrix	NO	NO YES
Analyst	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyte concentration	YES	NO YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NO YES
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	YES	YES
Initial*:		<u>ks</u>
MJH - Michael Heard, KD = Ki	evin Donety, MSH = Matt Hagema	n, KH = Kelly Hester
PDF: HOAGLAND, HUMTER, Karctenic Invoid	40318	<i>y</i>
Notes:	Sutherland Environmental	Co., Inc.

Sample Check-in Form			ж
Date Received: 114119 Invoice #	4()318	
Method of Delivery: <u>hand</u> Client:	Sph	re	3
1. Did any containers arrive broken?	YES	NO	
* If so, please state field ID with analysis of broken sample(s)			
2. Were cooler(s) sealed upon arrival?	YES	NO	NA
3. Were the samples received at the proper teamperature $(4^{\circ}C + 2^{\circ}C)? \dots$	YES	NO	NA
4. Did a chain of custody accompany the samples?	YES	NO	
* Was it properly filled out?	YES	NO	
5. Were correct containers used for the analysis requested?	YES	NO	
6. Were all containers properly preserved?	YES	NO	NA
7. Were all water samples received at the proper pH?	YES	NO	NA
8. If VOA vials were present, was there any head space?	YES	NO	ŊÁ
* If so, please state field ID of deficient sample(s):			
9. Were all containers properly labeled and match chain of custody?	YES	NO	
10. Did containers arrive within holding time of analysis?	YES	NO	
* If not, please state field ID and analysis of sample(s) out of holding time: _	,		
11. Was client informed of any/all deficiencies in sample check-in?	YES	NO	ŊA
12. Were any samples rejected?	YES	No	/
* If so, please state field ID of rejected sample(s):		t	
Sample Custodian (signed):)		

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SUTHERLAND ENVIRONMEN	TAL 251	5 5th Aven	ue South		Pho	ne'	205 5	R1 0	500	,								S	Dŀ		RI	= 3
COMPANY, INC.	Bir	ningham, /	AL 35233		F	ax:	205 5	B1 9)500									EN	GIN		RIN	GINC
		. .			859														UTI		NIN	G, TN C
Consultant Name:	SPHERE 3 Engine	ering, Inc.												Page #:	Page	1 of 3						
Address:	3433 Sierra Drive												Inv	oice To:	SPHE	RE 3 E	ngine	ering.	Inc.			
City/State/Zip:	Hoover, Alabama	35216											Re	port To:	G.Hoa	gland/	J.Hun	iter/G.	Karste	ns/ma	il origir	ial
Client:	Lalani Enterprises		- Andrew State and Andrew State					-					PI	roject #:	LE.220	28.02					in the firm	
Consultant Project Mgr:	Greg Hoagland						_				ι	JSTI	ncid	ent No.:	UST18	8-11-0	1	Production and Production				
Consultant Telephone Number:	(205) 403.3317		Fa	x No.:	(205) 403	3.3318	_				1	Facil	lity ID #:	Highwa	ay 22 (Quick	Stop				
Sampler Name: (Print)	KARST	Est.	5			<						S	ite A	ddress:	4014 4	th Ave	enue M	North				
Sampler Signature:		Ora	you	-		-	<u> </u>				Cit	sy, Co	ounty	y, State:	Clanto	n, Chil	ton C	ounty,	Alaba	ima		
					Prese	ervat	ive	T	_	Matri	x				Analyze	For:						
Sample ID or Field ID SB-5 101 201380 SB-5 17 201387 SB-6 121 201387	1771 101 Date Sampled	X X Grah	Composite Field Filtered	Methanol Sodium Bisulfate	HCI (Blue Label) NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label) HNO ₃ (Red Label)	C X X None (Black Label) Groundwater	Wastewater	Drinking Water Sludge	X X Soil	Other (specify): WATER	X X PAH 8270C	TEMPERATURE					RUSH TAT (Pre-Schedule)	Z Z IAI request (m ⊭us. ∪ays) ≺ ≺ PDF Results (yes or no)		Due Date of Report
SB-6 15/201209	(12/19/110					++	++	×	-		X	×				++	_	\vdash	╉┽	VY		
SB-6 11 201381	1/2/19/10					+		X	-		X	X						\vdash	++'	YV		
SB- 1 10 001370	11/19/12	S X			\square	\square		×	-		X	X								VY		
SB- 15 201341	12/19/13	NIX				\square		×			Х	X	X						1	VY		
SB-8 (01 201392	12/9 133	OIX						×			X	X	X							NY		
SB- 8 151201393	1/2/19/134	0 1 X						×			X	X	X							VY		
SB-9 10 201394	1/3/19 082	o I x				Π		x			X	X	X							VY		
SB-9 (51 201 395	1/3/19 08	5 T x				Ħ		x			X	X	X								.	
Comments/Special Instructions:		1111							-				1	Labora	tory Co	omme	nts:					
Deline felded in f		-	1						_					Ter Sar VO	nperatu nple Co Cs Free	re Upo intaine of He	on Re rs Inta adspa	ceipt: act? ace?	8' Y	M N N		
Hants	1/4/19	7 10:35	Received	y: M	aa	U	2		1/0		3		ne 35	QC Deli Level 2 Level 3	verable	s (plea:	se circ	le one)			
Relinquished by:	Date	Time	Received b	by:	0					Date		Tin	ne	Level 4								
														Site Spe	ecific - if	yes, pl	lease	pre-sc	hedule	w/ SU	THERL	AND
								-						Project	Manage	r or att	ach sp	pecifc i	nstruc	tions		

										40318
SUTHERLAND ENVIRONMEN	TAI 2515	5th Avenu	e South	Pho	205 581 0	500			1	SDHERE 3
COMPANY, INC.	Birm	ingham. A	L 35233	FIIC	Fax: 205 581 9	504				
and contracted by Justic D C Horse offer.		3,								ENGINEERING, INC
Consultant Name:	SPHERE 3 Enginee	ing, Inc.						Page #:	Page 2 of 3	
Address:	3433 Sierra Drive							Invoice To:	SPHERE 3 Enginee	ering, Inc.
City/State/Zip:	Hoover, Alabama 3	5216		ne selite white				Report To:	G.Hoagland/J.Hunte	er/G.Karstens/mail original
Client:	Lalani Enterprises							Project #:	LE.22QS.02	
Consultant Project Mgr:	Greg Hoagland						UST Ir	icident No.:	UST18-11-01	
Consultant Telephone Number:	(205) 403.3317	57	Fa:	x No.: (205	5) 403.3318		F	acility ID #:	Highway 22 Quick S	Stop
Sampler Name: (Print)	- 62202	St.	1				Si	te Address:	4014 4th Avenue No	orth
Sampler Signature:		~ Kan	. Kt)		City, Co	unty, State:	Clanton, Chilton Co	unty, Alabama
	T T	<u> </u>	<u> </u>	Pres	ervative	Matri	×		Analyze For:	
Sample ID or Field ID SB-10 10' 201390 SB-10 15' 201397 SB-11 60/ 201398 SB-11 10/ 201399 SB-12 10/ 201400 SB-12 15' 201401	Image: Construction Date Sampled 1 3 19 100 1 3 19 100 1 1 3 19 100 1 1 1 3 19 100 1 1 1 1 3 19 1 <td>X X X X Grab</td> <td>Composite Field Filtered</td> <td>Methanol Sodium Bisulfate HCI (Blue Label) NaOH (Oranne I abel)</td> <td>Nacy (Value) 1 H₂SO₄ Plastic (Yellow Label) 1 H₂SO₄ glass(Yellow Label)</td> <td>Wastewater Drinking Water Studie</td> <td>× × × × × × × × × × × × × × ×</td> <td>× × × × PAH 8270C Image: Second state Image: Second state Image: Second state Image: Second state</td> <td></td> <td>Z Z<!--</td--></td>	X X X X Grab	Composite Field Filtered	Methanol Sodium Bisulfate HCI (Blue Label) NaOH (Oranne I abel)	Nacy (Value) 1 H ₂ SO ₄ Plastic (Yellow Label) 1 H ₂ SO ₄ glass(Yellow Label)	Wastewater Drinking Water Studie	× × × × × × × × × × × × × × ×	× × × × PAH 8270C Image: Second state Image: Second state Image: Second state Image: Second state		Z Z </td
SB-13 10 20140L	11319 1211	X			X		X X	X		NY
SB-13 15 201403	13/19 1230	X			X		X X	X		NY
SB- DW/ 101 201404	1/2/19 694.	XII			X		x x	X		NY
SB- DWI 15/201405	1/2/19 0957				X		X X	X		NY
Comments/Special Instructions:						<u></u>		Labora	tory Comments:	A 11/1
Relinquished by:	Date	Time	Regeived b	DV:		Date	Tim	Ter Sar VO	nperature Upon Reco nple Containers Intac Cs Free of Headspac verables (please circle	eipt: NH ct? PN ce? Y N e one)
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Polinguishert by	1711	10-07	VUL	JUN	Men .	IMIP	10.2	JZ Level 3		
rteiniquisneu by:	Date	lime	Received b	by:	0	Date	Tim	Level 4	olific if you place -	
								Project	Manager or attach spe	ecifc instructions



COMPANY, INC.		Birmin	nghar	n, AL	352	33			F	Fax:	: 20)5 5	81 9	9504	1											E	ΞN	GII	١E	ER	INC	G, I N	1 C
Consultant Name:	SPHERE 3 Er	naineerir	na. In	C.																Par	10 #	Par	10 3	of	2								
Address:	3433 Sierra D	rive	5,				11.23	a Silin Samo					-						Inv	oice	ο π Το		HED	E 3 1	Engi	inoori	ina	Ino			-		
City/State/Zip:	Hoover Alaba	ma 352	216													•			Po	nor	+ To					ineen	ing,	inc.				210	
Client:	Lalani Entern	ises					100		N=27			-		1000	-				D	poin	. 10		noay	c oo	<u>/J.m</u>	unter	/G.r	arsu	ens/n	nairc	ongina	al	
Consultant Project Mor:	Grea Hoadlan	d								-						•	110	TI		roje	GL #	LE	220	5.02				-					
Consultant Telephone Number:	(205) 403 331	7				Fo			205	-	12.2	240	1		-		03			ent	NO.	05	118-	11-0	11	1.01	-	-					
Sampler Name: (Print)	(200) 400.001	600	-			. Га	X IN	<u> (</u>	(20:) 40	13.3	510						r	acı	iity i	D #	Hig	nway	122	Quic	ck Sto	ор			_		_	
Sampler Signature:	- KANA	- Site	YF	20	1			-		-							•••	SI	te A	aar	ess	401	4 4ti	1 Av	enue	e Nor	rth						
Sampler Signature.	(17	-0	20	ed Cr	and a state of the	2					-					Sity,	, Co	unt	y, S1	tate	Cla	nton	, Ch	ilton	Cour	nty, ,	Alaba	ama				
	1							F	res	erva	ative	9			Ma	trix						Anal	yze	For:									
Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label) NaOH / Oranne Label)	H2SO4 Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	HNO ₃ (Red Label)	None (Black Label)	Wastewater	Drinking Water	Sludge	Solf Other (specify) - WATER	BTEX/MTBE 8260B	PAH 8270C	TEMPERATURE								RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days) PDF Results (ves or no)			Due Date Of Keport	
TEMPERATURE BLANK		-							Τ		Π		x				X	2		X					T		1		NIV	/			
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Comments/Special Instructions:										1			1				_		1	12	hor	atory	Cor	nme	nte								
																					Te	mper	ature	lln	ion F	Receil	nt:	N	A				
																					Sa	mple	Con	taine	ers l	ntact	?	Q'	N				
1																					VC	Cs F	ree	of He	eads	space	?	Y	N				
Relinquished by	Date	9	Tir 70	ne 30	Rece	ived I	y:	٨	0	0	0		7	11	Da U)	ite IG	In	Tim			/ De /el 2	ivera	bles	(plea	ise c	circle (one)	6					
Relinquisted by:		6	T	25	D	4		5	A	0	V	1	N	11		11	10		2	Lev	/el 3												
	Date		1 10	ne	Rece	ivea t	by:			1	\wedge				Da	le		IIm	ie	Lev	/el 4												
				3																Site	e Sp	ecitic	- If y	es, p	leas	se pre	e-sch	edule	+ w/ S	SUTH	IERLA	AND	
k								-						_			_	-		Pro	ject	wana	ager	orat	lach	spec	ITC IN	Istruc	uons	8			

Phone: 205 581 9500

2515 5th Avenue South

SUTHERLAND ENVIRONMENTAL

COMPANY, INC.

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3 Engineering, Inc.	Report Date:	January 16, 2019
Attention:	Mr. Greg Hoagland	Reference #	40329
Address	3433 Sierra Drive	P.O. #	LE.22QS.02
	Hoover, AL 35216	Project ID:	Highway 22 Quick Stop
Sample Mat	rix: soil	Analytical	
Date Receiv	red: 1/7/19	Analyst:	Kevin Doriety/D. Brown
Date Collec	ted: 1/3/19	Date of Analysis:	1/8-16/19
Sample Coll	lector: G. Karstens	Method:	(Listed Below)

		PHYSIC	CAL CH	ARACT	ERISTI	CS OF S	OIL		
		Gravimetric Moisture Content g-water/ g-soil	Volumetric Moisture Content cc-water/ cc-soil	Dry Bulk Density pcf	Dry Bulk Density g/cc	Specific Gravity @ 20° C	Porosity cc /cc-soil	Fractional Organic Matter Content g-ash/ g-soil	Fractional Organic Carbon Content g-carbon/ g-soil
Field ID	Lab ID	(1)	(1a)	(2)	(2)	(3)	(4)	(5)	(6)
Shelby Tube	201421	0.1760	0.2876	102	1.63	2.36	0.3077	0.0333	0.0193

Test Methods/Calculations:

MC = Moisture Contect DBD = Dry Bulk Density SG = Specific Gravity

(1) ASTM D2216

(1a) Volumetric MC = Gravimetric MC x DBD (g/cc)

- (2) ASTM D2937
- (3) ASTM D854
- (4) Porosity = 1 [DBD (g/cc) / SG (g/cc)]
- (5) ASTM D2974
- (6) Fractional Organic Carbon Content = Fractional Organic Matter Content / 1.724

Method References

ASTM D04.08 ADEM, 2001, UST ARBCA Guidance Manual (pgs 5-11 - 5-13)

/ QAQC

EPA Laboratory ID AL01084 ADEM #41470

Respectfully submitted,

Noi Doug

Kevin Doriety Analytical Chemist

PDF: HOAGLAND, HUMTER, KANSTENS Invo	vice #	l Co., Inc.
* MJH = Michael Heard, KD = 1	Kevin Doriety, MSH = Matt Hagema	an, KH = Kelly Hester
QC Reviewed:	XRS MLH	YES I
Detection/Reporting/Quant. Limits	NO	NOYES
Dilution Factors/Conversions	NO	NOYES
Units	NO	NO YES
Analyte concentration	NO	NO YES
Analysis Date/Time	NO	NO YES
Analyst	NO	NO YES
Sample Matrix	NOYAS	NO
7. Does the following information on report correspond t printout information from the analytical instrumentati	o the on:	
6. Is the report formatted correctly?	NO	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO	NO YES
4. Are all methods and method references correct on repo	ort? NO YKS	NO YES
3. Is the purchase order ID (PO) and project ID accuratel noted on report?	y NO YES	NO YES
2. Do all dates match the COC on the report?	NO	NO YES
 Is the client and the sample collector(s) accurately not on report? 	ed NO YES	NO YES

Sample Check-in Form			
Date Received: 1719 Invoice #	40:	329	
Method of Delivery: Mand Client:	SP	nore	,3
1. Did any containers arrive broken?	YES	NO	
* If so, please state field ID with analysis of broken sample(s)			
2. Were cooler(s) sealed upon arrival?	YES	NO	NA
3. Were the samples received at the proper teamperature $(4^{\circ}C + 2^{\circ}C)$?	YES	NO	NA
I. Did a chain of custody accompany the samples?	YES	NO	
* Was it properly filled out?	y⁄es	NO	
. Were all containers properly preserved?	YES	NO	
2. Were all water samples received at the proper pH?	YES	NO	NA
. If VOA vials were present, was there any head space?	YES	NO	ŊA
* If so, please state field ID of deficient sample(s):			
. Were all containers properly labeled and match chain of custody?	YES	NO	
0. Did containers arrive within holding time of analysis?	YES	NO	
* If not, please state field ID and analysis of sample(s) out of holding time:			
1. Was client informed of any/all deficiencies in sample check-in?	YES	NO	NĄ
2. Were any samples rejected?	YES	NO	/
* If so, please state field ID of rejected sample(s):		-	
ample Custodian (signed):			

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	T 6 1												_																C	C				P			Z
SUTHERLAND ENVIRONMEN	TAL 2	2515 5t	h Av	enue	Sou	th			Ph	one	ə: 2	205	58	19	500)																1.5				1 4	
COMPANY, INC.	E	Birming	ghan	ı, AL	352	33				Fax	c: 2	205	58	19	504	1														V C	511	1 -		RII	N G	, i i	V C
			the second																			184 - 201	-1. 2004														
Consultant Name:	SPHERE 3 Eng	ineerin	g, Inc				_														1	Pag	e #: _	Pa	ge 1	of	1		Ŷ								
Address:	3433 Sierra Dri	ve	40							-							-			1	nvo	ice	To:	SP	HE	KE :	3 Er	igini	eerin	g, I	nc.		0				
City/State/Zip:	Hoover, Alaban	na 352	16				-		-					-		1000	-				Rep	ort	10:	gre	g@	spn	ere	3.00	im/jo	n@	spn	are	3.0)m/m	nall d	origi	nai
Client:	Cara Llagaland	ies															-		101	E Inc.	Pro	ojec	:t #:	LE	.220	15.0	01										
Consultant Project Mgr:	Greg Hoagiand					East	- NI		(20		102	22	10				<u></u>		131			411 I	۹0.: ۳. ۳.	03	h		201	uiol	Cho			_					
Consultant Telephone Number:	(205) 403.3317	ofte	2. 7	5		га	K IN	0	(20	15) 4	103.	.33	10		di s	-				Cit.		ty ii tdre) #:	40	14.4	th /	ZQ		Nort	b	UNITACIACI T						
Sampler Name. (Finit)	29	A	11		t												-	Cit	hv i	Col	o Au	St	ato:	40	nto	n C	hilte		CUR	tv /	Alah	am	2				
Sampler Signature.		A	1 K	in	<u>AUC</u>			-				-	_	-				UI	.y,		incy	, 01	ate.	-010	into	-	mille		Journ	.y, 7	1	ann	a				
	<u>г т</u>								Pre	serv	/ativ	ve	-	+	1	M	atrix	í T	\neg	-	-	_	-	Ana T	lyze	FO	r:	1	-	_		()					
Sample ID or Field ID SHELBY TUBE 201421	1 PJ CJ	Time Sampled	No. of Containers Shipped	X Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)			Groundwater	· Wastewater	Drinking Water	Siudge	X Soil	Other (specify): WATER	X Gravimetric Moisture Content	X Volumetric Moisture Content	X Dry Bulk Density (pcf)	X Dry Bulk Density (g/cc)	X Specific Gravity @ 20 C	X Porosity	X Fractional Organic Matter Content	X Fractional Organic Carbon Content				RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days					
											T	T		T		T															Γ						
											T	T	T	T	T	T															Γ						
											T	T	T	T	T	T																					
											1	T	T	T	T	T									T	T	1				T						
Comments/Special Instructions:	<u> </u>				L											-		1	1			La	Te Sa VC	mpe mple mple	y C eratu e Co Free	omi ure (onta	nen Jpo iner Hea	n R n R s In adsp	eceip tact?	ot: ? ?	Ş	[+	P N N				
Relinquished by Caniba		7	Tir B:	ne 38	Rece	Ved	py: L	1	Â	X	21	ア	/	_	1	h	ate	1:	3	Tim	e	QC Lev Lev	/el 2 /el 3	liver	able	<u>s (p</u>	leas	e ci	rcle c	<u>)ne)</u>							
Relinquished by:	*Date	~	Tir	me	Réce	lived	by:			J						D	ate			Tim	e	Lev Site Pro	vel 4 e Sp oject	ecifi Mai	c - i nage	f yes er or	s, ple atta	ease ach :	e pre-	-sch ifc ir	nedu nstru	le v ictic	v/S	JTHI	ERL	ANE)

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	June 14, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	41057
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.03
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
0 1 1 1				
Sample Ma	itrix:	soil	Analytical	
Date Recei	ved:	6/10/19	Analyst:	Hageman/Heard
Date Colle	cted:	6/6-7/19	Date of Analysis:	6/11-12/19
Sample Co	llector:	G. Karstens	Method:	EPA Method 8260B

	VOLAT	TLE OR	GANIC	S - BTEX	MTBE		
	FIELD ID						
	SB-14 10'	SB-14 15'	SB-15 10'	SB-15 15'	SB-16 10'	SB-16 15'	
Volatile	LAB ID	Detection					
Organic, ppm	205044	205045	205046	205047	205048	205049	Limit, ppm
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	0.005
Xylenes, o,m,p	BDL	BDL	BDL	BDL	BDL	BDL	0.015
MTBE	BDL	BDL	BDL	BDL	BDL	0.007	0.005
	FIELD ID	FIELD ID	FIELD ID	FIELD ID			
	SB-17 10'	SB-17 15'	SB-18 10'	SB-18 15'			
Volatile	LAB ID	LAB ID	LAB ID	LAB ID			Detection
Organic, ppm	205050	205051	205052	205053			Limit, ppm
Benzene	BDL	BDL	BDL	BDL			0.005
Toluene	BDL	0.008	BDL	BDL			0.005
Ethylbenzene	BDL	0.094	BDL	BDL			0.005
Xylenes, o,m,p	BDL	0.520	BDL	BDL			0.015
MTBE	BDL	BDL	BDL	BDL			0.005

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as ppm of analyte

MAL /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dra

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	June 14, 2019	
Attention:	Attention: Mr. Greg Hoagland		Reference #	41057	
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.03	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Sample Ma	atrix:	soil	Extraction Date:	6/11/19	
Date Recei	ved:	6/10/19	Analyst:	Hageman/Heard	
Date Collec	cted:	6/6-7/19	Date of Analysis:	6/13/19	
Sample Co	llector:	G. Karstens	Method:	EPA Method 8270C	

POL	POLYNUCLEAR AROMATIC HYDROCARBONS												
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	SB-14 10'	SB-14 15'	SB-15 10'	SB-15 15'	SB-16 10'	SB-16 15'							
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Aromatics, ppm	205044	205045	205046	205047	205048	205049	Limit, ppm						
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.050						

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	June 14, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	41057
Address:	3433 Sie	rra Drive	P.O. #	LE.22QS.03
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	atrix:	soil	Extraction Date:	6/11-12/19
Date Recei	ved:	6/10/19	Analyst:	Hageman/Heard
Date Colle	cted:	6/6-7/19	Date of Analysis:	6/13/19
Samala Co	llector:	G Karstens	Method:	FPA Mathod 8270C

POLYNUCLEAR AROMATIC HYDROCARBONS											
	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	SB-17 10'	SB-17 15'	SB-18 10'	SB-18 15'							
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID		Detection					
Aromatics, ppm	205050	205051	205052	205053		Limit, ppm					
Acenaphthene	BDL	BDL	BDL	BDL		0.050					
Acenaphthylene	BDL	BDL	BDL	BDL		0.050					
Anthracene	BDL	BDL	BDL	BDL		0.050					
Benzo(a)anthracene	BDL	BDL	BDL	BDL		0.050					
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL		0.050					
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL		0.050					
Benzo(ghi)perylene	BDL	BDL	BDL	BDL		0.050					
Benzo(a)pyrene	BDL	BDL	BDL	BDL		0.050					
Chrysene	BDL	BDL	BDL	BDL		0.050					
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL		0.050					
Fluoranthene	BDL	BDL	BDL	BDL		0.050					
Fluorene	BDL	BDL	BDL	BDL		0.050					
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL		0.050					
Naphthalene	BDL	BDL	BDL	BDL		0.050					
Phenanthrene	BDL	BDL	BDL	BDL		0.050					
Pyrene	BDL	BDL	BDL	BDL		0.050					

BDL = Below Detection Limit Detection Limit is Practical Quantitation Limit All results expressed as PPM (mg/kg)

MK / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dougt

Kevin Doriety Analytical Chemist

1. Is the client and on report?	the sample collector(s) accurately note	d	NO		NO YES
2. Do all dates ma	tch the COC on the report?	Ľ	NO YES		NO XES
3. Is the purchase noted on report	order ID (PO) and project ID accurately		NO XES		NO YES
4. Are all methods	and method references correct on report	rt?	NO		NO YES
5. Do the Field ID COC?	(s) and the Lab ID(s) correspond to the	C	NO YES		NO YES
6. Is the report for	matted correctly?	C	NO		NO YES
7. Does the follow printout inform	ing information on report correspond to ation from the analytical instrumentatio	the n:			X
	Sample Matrix	Ľ	NO		NO YES
	Analyst	C	NO YES	<u>\</u>	NO YES
	Analysis Date/Time	Ľ	NO		NO YES
	Analyte concentration	Ľ	NO		NO YES
	Units		NO		NO YÈS
	Dilution Factors/Conversions	Ľ	NO) [NOYES
	Detection/Reporting/Quant. Limits	Ľ	NO		NO YES
	QC Reviewed:		YES		YES
	Initial*:		MOH	-	12th
	* $MJH = Michael Heard, KD = K$	evin I	Doriety, MSH = Matt H	lageman, k	KH = Kelly Hester
PDF: HOAGLA	nd, Humjer	ice #	4105	57	
Notes:			Sutherland Enviror	imental Co.	., Inc.

Sample Ch	eck-in Form			
Date Received: 01019	Invoice #	4	+1057	16
Method of Delivery: <u>hand</u>	Client:	_SF	here	3
1. Did any containers arrive broken?		YES	UX0	
* If so, please state field ID with analysis of broken sa	ample(s)			
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper teamperature	(4°C +/- 2°C)?	VYES	NO	NA
4. Did a chain of custody accompany the samples?	[VES	NO]
* Was it properly filled out?		VYES	NO]
5. Were correct containers used for the analysis requested	d? [V _{YES}	NO	
5. Were all containers properly preserved?	[VYES	NO	NA
7. Were all water samples received at the proper pH?	[YES	NO	V _{NA}
3. If VOA vials were present, was there any head space?	[YES	NO	NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of	of custody?	YES	NO]
0. Did containers arrive within holding time of analysis?	,[JES	NO]
* If not, please state field ID and analysis of sample(s)) out of holding time: _			
1. Was client informed of any/all deficiencies in sample	check-in? [YES	NO	NA
2. Were any samples rejected?	[YES	10]
* If so, please state field ID of rejected sample(s):				

M. COM



COMPANY, INC.	Birmin	gham, AL 352	233 Fax: 2	205 581 9504		ENGINEERING, INC
Consultant Name:	SPHERE 3 Engineerin	a. Inc.			Page #: Page 1 o	f 2
Address:	3433 Sierra Drive	0,			Invoice To: SPHERE	3 Engineering, Inc.
City/State/Zip:	Hoover, Alabama 352	216			Report To: G.Hoada	and/J.Hunter/G.Karstens/mail original
Client:	Lalani Enterprises			and a final sector (and a state of the sector of the secto	Project #: LE.22QS	.03
Consultant Project Mgr:	Greg Hoagland				UST Incident No.: UST18-1	1-01
Consultant Telephone Number:	(205) 403.3317		Fax No.: (205) 403	.3318	Facility ID #: Highway	22 Quick Stop
Sampler Name: (Print)	CARSTEN	25-			Site Address: 4014 4th	Avenue North
Sampler Signature:	1/2	Cante	-	Ci	ity. County. State: Clanton.	Chilton County, Alabama
interfactore and the second seco		us w	Preservati	ve Matrix	Analyze F	or:
Sample ID or Field ID SB-14 10' 205044 SB-14 15' 205045 SB-15 10' 205046 SB-15 15' 205047 SB-16 10' 205048 SB-16 15' 205049 SB-17 10' 205050 SB-17 15' 205051 SB-18 10' 205052	June Sampled Time Sampled 10	X X No. of Containers Shipped X X X X X X X	Field Filtered Methanol Methanol Northanol Northanol Northanol Northanol Northanol Northanol Northanol Northanol Northanol Nach Nach	H3.5014 (3lass(Yellow Label) HNO3 (Red Label) HNO3 (Red Label) HNO3 (Red Label) Mastewater Mastewater Mastewater Studge Studge	Output Output	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
SB-18 15 205053	6/19/178	' X				NY
Comments/Special Instructions:					Laboratory Con Temperature Sample Con VOCs Free c	upon Receipt: 2.5 ainers Intact? () N If Headspace? () N
Relinquished by:	Date	Time Rece	eived by:	Date	Time QC Deliverables (please circle one)
Dearton	6/10/19	7:37			Level 2 Level 3	
Relinquished by:	Date	Time Rece	eived by:	Date	Time Level 4	
		1	M. Can	1 10/10	9-38 Site Specific - if ye Project Manager	es, please pre-schedule w/ SUTHERLAND or attach specifc instructions

Phone: 205 581 9500

2515 5th Avenue South

SUTHERLAND ENVIRONMENTAL



Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3 Engineering, Inc. Mr. Greg Hoagland		Report Date:	June 11, 2019	
Attention:			Reference #	41058	
Address:	3433 Sierra Drive		P.O. #	LE.22QS.03	
	Hoover, AL 35216		Project ID:	Highway 22 Quick Stop	
Sample Matrix:		soil	Analytical		
Date Received:		6/10/19	Analyst:	Kevin Doriety	
Date Collected:		6/7/19	Date of Analysis:	6/11/19	
Sample Collector:		G. Karstens	Method:	EPA Method 6010B	

METALLIC ANALYTES								
	FIELD ID							
	SOIL							
	COMP-1							
Analyte, mg/Kg	LAB ID					Detection		
as Total	205054					Limit, mg/Kg		
Lead	4.7					1.0		

BDL = Below Detection Limit Detection Limit is Reporting Limit All results expressed as PPM of total analyte

MDS / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Nai Dorot

Kevin Doriety Analytical Chemist
Sutherland Environmental Read and Review Checklist

	1	
1. Is the client and the sample collector(s) accurately noted on report?	NO YES	NO YPS
2. Do all dates match the COC on the report?	NO YES	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO YES	NO YES
4. Are all methods and method references correct on report?	NO YES	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO YES	NO YES
6. Is the report formatted correctly?	NO YES	NO YES
7. Does the following information on report correspond to the printout information from the analytical instrumentation:		
Sample Matrix	NO YES	NO YES
Analyst	NO YES	NO YPS
Analysis Date/Time	NO YES	NO YES
Analyte concentration	NO YES	NO YES
Units	NOYES	NO YES
Dilution Factors/Conversions	NO YES	NO YES
Detection/Reporting/Quant. Limits	NO YES	NO YES
QC Reviewed:	YES	YES
<i>Initial*:</i> * MIH = Michael Heard KD = Kevin I	Doriety MSH = Matt Hagemar	KH = Kelly Hester
	onety, more mail nagemar	, itil iteny fiester
PDF: HOAGIAND, HUNTER, Karctens Invoice #_	41058	
Notes:	Sutherland Environmental	Co., Inc.

Sutherland Environmental Company Inc.

Sample Ch	eck-in Form			
Date Received: 10/19	Invoice #	4	1058	
Method of Delivery: hand	Client:	_SF	phere	3
1. Did any containers arrive broken?		YES	Vio]
* If so, please state field ID with analysis of broken sa	ample(s)			20
2. Were cooler(s) sealed upon arrival?		VES	NO	NA
3. Were the samples received at the proper teamperature	(4°C +/- 2°C)?	YES	NO	NA
4. Did a chain of custody accompany the samples?		YES	NO]
* Was it properly filled out?	[V YES	NO]
5. Were correct containers used for the analysis requested	d?	VYES	NO]
5. Were all containers properly preserved?	[V _{YES}	NO	NA
7. Were all water samples received at the proper pH?	<mark>.</mark>	YES	NO	NA
8. If VOA vials were present, was there any head space?		YES	NO	NA
* If so, please state field ID c deficient sample(s):				_
9. Were all containers properly tabeled and match chain of	of custody?	V FES	NO]
10. Did containers arrive within holding time of analysis?	? [YES	NO]
* If not, please state field ID and analysis of sample(s)) out of holding time: _			
		-		1
11. Was clientinformed of any/all deficiencies in sample	check-in?	YES	NO	NA
12. Were any semples rejected?	[YES	NO]
* If so, pleasistate field ID of rejected sample(s):				



COLLEDE 7

SUTHERLAND ENVIRONMENT COMPANY, INC.	ΓAL	2515 5 Birmin	ith Av	enue n, AL	e Sou . 352	th 33		ł	Pho F	one: Fax:	20 20)5 51)5 51	81 9 81 9	9500 9504	1											ľ	S E N	GI	N E	E	RIN	G,	3
Consultant Name:	SPHERE 3 Er	ngineerir	ng, Inc.																	Pag	e #:	Pad	ae 1	of 1									
Address:	3433 Sierra D	rive																	Invo	oice	To:	SPI	HER	E 3 I	Engi	neeri	ing, Ir	nc.					
City/State/Zip:	Hoover, Alaba	ima 352	216								with a								Re	port	To:	gre	g@:	sphe	re3.	com	; jon(@sp	here	3.cc	om, m	ail or	iginal
Client:	Lalani Enterpr	ises														•. 7			Pr	rojec	ct #:	LE.	220	S.03	3				-				
Consultant Project Mgr:	Greg Hoaglan	d							100								US	ST II	ncid	ent	No.:	US	T18	-11-(01	-							
Consultant Telephone Number:	(205) 403.331	7				Fa	x Ne	o.: ((205	5) 40	3.3	318						F	acil	ity I	D #:	Hig	hwa	y 22	Qui	ick S	stop	-1.22000 C					
Sampler Name: (Print)	Kaz	3500	25	5	-													Si	ite A	ddre	ess:	401	4 41	h Av	enu	ie No	orth						
Sampler Signature:		BX	ere	St		-			/	~						10	City	, Co	unty	, St	ate:	Cla	ntor	n, Ch	iltor	1 Col	unty,	Alat	ama	a		118-0-0	
								F	res	erva	ative	•	Т		Ma	trix		Т				Ana	lyze	For				٦					
Sample ID or Field ID SOIL COMP-1 205054 TEMPERATURE BLANK	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	X Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	HaOR (Urange Laber) H2SO4 Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	HNO ₃ (Red Label)	X X None (Black Label)	Wastewater	Drinking Water	Sludge	X Soil		× TEMPERATURE									I I I RUSH TAT (Pre-Schedule)	Z TAT request (in Bus. Days)			Due Date of Report	
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Relinquished by:	Date		Tim	ne	Recei	ved b	ľ		C	a	N	•		6		ite 0	C	Tim 7:2	1e 38	Lev Site Pro	el 4 Spe ject	ecific Mana	- if y	ves, or a	oleas	se pr 1 spe	re-sch ecifc ir	nedu nstru	le w/	/ SU ⁻ ns	THER	LANE	þ



Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	August 31, 2018	
Attention:	Mr. Greg	g Hoagland	Reference #	39671	
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.01	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Sample Ma	atrix:	water	Analytical		-
Date Recei	ved:	8/27/18	Analyst:	Hageman/Heard	
Date Colle	cted:	8/23/18	Date of Analysis:	8/29-30/18	
Sample Co	llector:	J. Johnson	Method:	EPA Method 8260B	

VOLATILE ORGANICS - BTEX/MTBE												
	FIELD ID											
	MW-1	MW-2	MW-3	MW-4	DUP-1							
Volatile	LAB ID		Detection									
Organic, mg/L	197765	197766	197767	197768	197769		Limit, ppm					
Benzene	0.161	7.120	6.000	0.018	7.240		0.001					
Toluene	0.008	26.200	36.700	0.092	27.600		0.001					
Ethylbenzene	0.008	2.980	3.860	0.173	3.010		0.001					
Xylenes, o,m,p	0.090	16.800	21.700	0.971	17.500		0.003					
MTBE	0.172	25.600	0.436	BDL	24.700		0.001					

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

D /QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Kin Dougly

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	August 31, 2018
Attention:	Mr. Greg	g Hoagland	Reference #	39671
Address:	3433 Sie	rra Dr.	P.O. #	LE22QS.01
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	atrix:	water	Extraction Date:	8/28/18
Date Recei	ved:	8/27/18	Analyst:	Hageman/Heard
Date Colle	cted:	8/23/18	Date of Analysis:	8/29/18
Sample Co	llector:	J. Johnson	Method:	EPA Method 8270C

POLYNUCLEAR AROMATIC HYDROCARBONS												
	FIELD ID											
	MW-1	MW-2	MW-3	MW-4	DUP-1							
Polynuclear	LAB ID		Detection									
Aromatics, ppm	197765	197766	197767	197768	197769		Limit, ppm					
Acenaphthene	BDL	BDL	BDL	BDL	BDL		0.001					
Acenaphthylene	BDL	BDL	BDL	BDL	BDL		0.001					
Anthracene	BDL	BDL	BDL	BDL	BDL		0.001					
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL		0.001					
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL		0.0001					
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL		0.0001					
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL		0.0005					
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL		0.0001					
Chrysene	BDL	BDL	BDL	BDL	BDL		0.0005					
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL		0.001					
Fluoranthene	BDL	BDL	BDL	BDL	BDL		0.001					
Fluorene	BDL	BDL	BDL	BDL	BDL		0.001					
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL		0.001					
Naphthalene	0.015	0.626	0.703	0.040	0.753		0.001					
Phenanthrene	BDL	BDL	BDL	BDL	BDL		0.001					
Pyrene	BDL	BDL	BDL	BDL	BDL		0.001					

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

MAK / QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dougt

Kevin Doriety Analytical Chemist

Sutherland Environmental Read and Review Checklist

Notes:	Sutherland Environmenta	l Co., Inc.
PDF: HOagland, Hunter Invo	ice #39071	
<i>Initial*:</i> * MJH = Michael Heard, KD = k	Kevin Doriety, MSH = Matt Hagema	an, KH = Kelly Hester
QC Reviewed:	XES	NES
Detection/Reporting/Quant. Limits	NO YDS	NO YES
Dilution Factors/Conversions	NO YES	NO YES
Units	NO	NO YBS
Analyte concentration	NO	NO YBS
Analysis Date/Time	NO	NO YKS
Analyst	NO	NO YBS
Sample Matrix	NO	NO
7. Does the following information on report correspond to printout information from the analytical instrumentation	o the on:	
6. Is the report formatted correctly?	NO	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NOY	NO YRS
4. Are all methods and method references correct on repo	ort? NO 🔀	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	y NO YXS	NO YES
2. Do all dates match the COC on the report?	NOY	NO YES
 Is the client and the sample collector(s) accurately note on report? 	ed NO SKS	NO YES

Sutherland Environmental Company Inc.

Sample Che	ck-in Form	
Date Received: X12711	Invoice #	391071
Method of Delivery:	Client:	Sphere 3
1. Did any containers arrive broken?	[YAS NO
* If so, please state field ID with analysis of broken sam	ple(s) MWZF	FIGTTOLE, DUP
2. Were cooler(s) sealed upon arrival?	[YES NO NA
3. Were the samples received at the proper teamperature (4	°C +/- 2°C)?	YES NO NA
4. Did a chain of custody accompany the samples?		YES NO
* Was it properly filled out?		YES NO
5. Were correct containers used for the analysis requested?		YES NO
 Were all containers properly preserved? 		YES NO NA
were all water samples received at the proper pH?		YES NO NA
* If so, please state field ID of deficient sample(s): M	N)#1977(<u>XES NO NA</u> <u>es, mwy # 19</u> 7768
). Were all containers properly labeled and match chain of o	custody?	YES NO
0. Did containers arrive within holding time of analysis?		YES NO
* If not, please state field ID and analysis of sample(s) or	ut of holding time:	
1. Was client informed of any/all deficiencies in sample ch	eck-in?	KES NO NA
2. Were any samples rejected?		YES NO
* If so, please state field ID of rejected sample(s):		
ample Custodian (signed):	N	

SUTHERLAND ENVIRONMEN	VTAL	2515	5th A	venu	ie So	uth			Ph	one	× 2		81	95	00			5 4							स व्य <mark>क्त</mark>		C	D	ZL	30	14		
COMPANY, INC.		Birmi	ngha	m, A	L 35	233			1.11	Fax	: 2	05 5	81	95	04) EN	P	I-M		R		5
Consultant Name		'nelnesi	Factor Tro	127																							LI	• •	114			۷G,	INC
Address	: 3433 Sierra (Drive	ing, in	IC.												_				Ρ	age	#: <u>P</u>	age	1 of	f 1			0.000					
City/State/Zip	: Hoover Alah	ama 35	216					1.00						_					Ir	iovr	ce T	o: S	PHE	RE	3 Er	ngine	ering	J. Inc	3.			_	
Client	: Lalani Entern	rises	210	1000	-	-	- (***									-			F	Repo	ort T	o: _G	S.Hoa	agla	nd/J.	.Hun	nter/G	.Kar	ster	ns/m	ail ori	ginal	
Consultant Project Mgr	: Grea Hoadla	nd								-										Pro	ject	#: <u>L</u>	E220	28.0	01								
Consultant Telephone Number	: (205) 403.33	17		-	and an anna	Fa	V N	<u>.</u> .	(20)	5) 40	02 2	2240			_	- 20	a	JST	Inc	ider	nt No).: <u>U</u>	ST1	8-11	1-01	_							
Sampler Name: (Print) Jimmy Johns	on 1				- 10		····	(20.	5) 40	03.0	5510	-	-					Fa	cility	y ID	#: <u>H</u>	ighw	ay 2	22 Q	uick	Stop				-		
Sampler Signature	An	11	-	-	-								-	100		-	01		Site	Add	dres	s: 4	014	4th /	Aven	nue M	North						
	47	9					-						_	_	_		Ch	iy, C	our	nty,	Stat	e: <u>C</u>	lanto	on, C	Chilto	on Co	ounty	, Ala	iban	na			
	T			1	1	1	\vdash	H	res	serva	ative		4	-	M	latri	x	\rightarrow		-	_	An	alyz	e Fo	or:	_							
Sample ID or Field ID MW-1 197705 MW-2 977027 MW-3 1977027 MW-4 197709 DUP-1 197709 TEMPERATURE BLANK	08/23/18 08/23/18 08/23/18 08/23/18 08/23/18	13:02 13:41 14:53 14:14	A A A A A A A A	X X X X Crab	Composite	Field Filtered	Methanol	Sodium Bisulfate	X X X HCI (Blue Label)	Hazon (Orange Label) H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO, Glass(Yellow Label)	HNO ₃ (Red Label)	X X X None (Black Label)	X X X Groundwater	Drinking Water	Sludge	Soil	X Other (specify): WATER	X X X X X BIEX/MIBE 8260B	C X X X X PAH 82/0C								RUSH TAT (Pre-Schedule)	ZZZZZZZUAT request (in Bus. Days)	A A A A A PDF Results (yes or no)		Due Date of Report	
C																		T	T			T						+	H	+			
Relinquished by:	Date		Tin	ne	Recei	ved b	<u> </u>								Da	ate		Tir	ne		Te Sa V(mpe mpe mpli DCs	y Co eratul e Co Free	ntair	lpon ners Head	Rec Intai	eipt ct? ce?	REAL	8	NN			
11 mg /1/ 1/2	8/17/1	4	14.	17	11	L	2	Λ.	(a)	m				8	12-	1.	di	Ľ'	Y	7 Le	vel	nvera	aules	(pie	ase	circle	e one	2					
Relinquished by	0/2/11	0	10.1		A	1	Y) \	l	Q	h	K)	17	E,	11	SC	1.	61	Le	vel 3	3											
	Date		Tim	ne	Receiv	ved by	P.			1	1	1			Da	ate		Tir	ne	Le	vel 4												
										1	2									Sit	e Sp	ecifi	c - if	yes,	plea	se pi	re-sch	nedul	le w	/ SU	THER	AND	
			1				_	2502					2							Pr	oject	Mar	ager	or a	attach	1 spe	ecifc ir	nstru	ctior	ns			

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	January 21, 2019	
Attention:	Mr. Greg	g Hoagland	Reference #	40344	
Address:	3433 Sie	erra Drive	P.O. #	LE22QS.02	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Sample Ma	atrix:	water	Analytical		
Date Recei	ved:	1/11/19	Analyst:	Hageman/Heard	
Date Collec	cted:	1/10/19	Date of Analysis:	1/11-14/19	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8260B	

VOLATILE ORGANICS - BTEX/MTBE										
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID				
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6				
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection			
Organic, mg/L	201474	201475	201476	201477	201478	201479	Limit, ppm			
Benzene	0.460	12.100	12.200	0.213	BDL	BDL	0.001			
Toluene	0.049	47.200	63.600	0.150	BDL	BDL	0.001			
Ethylbenzene	0.012	5.800	7.840	0.732	BDL	BDL	0.001			
Xylenes, o,m,p	0.190	33.300	40.800	2.300	BDL	BDL	0.003			
MTBE	0.380	17.100	1.350	0.005	BDL	BDL	0.001			
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID				
	MW-7	MW-8	MW-9	MW-11	MW-12	MW-13				
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection			
Organic, mg/L	201480	201481	201482	201483	201484	201485	Limit, ppm			
Benzene	BDL	BDL	2.460	0.184	0.009	8.960	0.001			
Toluene	BDL	BDL	13.400	0.131	0.052	36.300	0.001			
Ethylbenzene	BDL	BDL	6.700	0.023	0.009	4.890	0.001			
Xylenes, o,m,p	BDL	BDL	36.100	0.195	0.051	27.800	0.003			
MTBE	BDL	0.009	0.051	0.318	BDL	6.270	0.001			

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineering, Inc.		Report Date:	January 21, 2019	
Attention:	Attention: Mr. Greg Hoagland		Reference #	40344
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.02
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	atrix:	water	Analytical	
Date Recei	ved:	1/11/19	Analyst:	Hageman/Heard
Date Colle	cted:	1/10/19	Date of Analysis:	1/11/19
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8260B

VOLA	TILE ORG	GANICS	- BTEX	K/MTBE/	NAPHT	HALENI	E
	FIELD ID	FIELD ID					
	MW-DW1	DUP-1					
Volatile	LAB ID	LAB ID					Detection
Organic, mg/L	201486	201487					Limit, ppm
Benzene	0.006	BDL					0.001
Toluene	0.055	BDL					0.001
Ethylbenzene	0.015	BDL					0.001
Xylenes, o,m,p	0.075	BDL					0.003
MTBE	BDL	0.010					0.001
Naphthalene		BDL					0.005

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

/QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Dorg

Kevin Doriety Analytical Chemist

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client: Sphere 3 Engineerin		Engineering, Inc.	Report Date:	January 21, 2019	
Attention:	Mr. Greg	g Hoagland	Reference #	40344	
Address:	3433 Sie	rra Dr.	P.O. #	LE22QS.02	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Sample Ma	trix:	water	Extraction Date:	1/14/19	
Date Recei	ved:	1/11/19	Analyst:	Hageman/Heard	
Date Collec	cted:	1/10/19	Date of Analysis:	1/18/19	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8270C	

POLYNUCLEAR AROMATIC HYDROCARBONS														
	FIELD ID													
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6								
Polynuclear	LAB ID	Detection												
Aromatics, ppm	201474	201475	201476	201477	201478	201479	Limit, ppm							
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001							
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001							
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005							
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001							
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005							
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Naphthalene	0.053	0.614	0.508	0.238	BDL	BDL	0.001							
Phenanthrene	BDL	BDL	BDL	0.001	BDL	BDL	0.001							
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	ient: Sphere 3 Engineering, Inc.		Report Date:	January 21, 2019
Attention:	ention: Mr. Greg Hoagland		Reference #	40344
Address:	3433 Sie	rra Dr.	P.O. #	LE22QS.02
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	atrix:	water	Extraction Date:	1/15/19
Date Recei	ved:	1/11/19	Analyst:	Hageman/Heard
Date Colle	cted:	1/10/19	Date of Analysis:	1/18-19/19
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8270C

POLYNUCLEAR AROMATIC HYDROCARBONS														
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID								
	MW-7	MW-8	MW-9	MW-11	MW-12	MW-13								
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection							
Aromatics, ppm	201480	201481	201482	201483	201484	201485	Limit, ppm							
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001							
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001							
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005							
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001							
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005							
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Fluorene	BDL	BDL	0.001	BDL	BDL	BDL	0.001							
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							
Naphthalene	0.002	BDL	0.567	0.018	0.003	0.416	0.001							
Phenanthrene	BDL	BDL	0.001	BDL	BDL	BDL	0.001							
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001							

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	lient: Sphere 3 Engineering, Inc.		Report Date:	January 21, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	40344
Address:	Address: 3433 Sierra Dr.		P.O. #	LE22QS.02
	Hoover, AL 35216		Project ID:	Highway 22 Quick Stop
0 1 10			E	
Sample Ma	itrix:	water	Extraction Date:	1/15/19
Date Recei	ved:	1/11/19	Analyst:	Hageman/Heard
Date Colle	cted:	1/10/19	Date of Analysis:	1/19/19
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8270C

POL	YNUCLE	CAR AROMATIC HYDROCARBONS	
	FIELD ID		
	MW-DW1		
Polynuclear	LAB ID		Detection
Aromatics, ppm	201486		Limit, ppm
Acenaphthene	BDL		0.001
Acenaphthylene	BDL		0.001
Anthracene	BDL		0.001
Benzo(a)anthracene	BDL		0.001
Benzo(b)fluoranthene	BDL		0.0001
Benzo(k)fluoranthene	BDL		0.0001
Benzo(ghi)perylene	BDL		0.0005
Benzo(a)pyrene	BDL		0.0001
Chrysene	BDL		0.0005
Dibenzo(ah)anthracene	BDL		0.001
Fluoranthene	BDL		0.001
Fluorene	BDL		0.001
Indeno(1,2,3-cd)pyrene	BDL		0.001
Naphthalene	0.001		0.001
Phenanthrene	BDL		0.001
Pyrene	BDL		0.001

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Non Dorg

Kevin Doriety Analytical Chemist

Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately noted	NO	YES	NO YES
on report?			
2. Do all dates match the COC on the report?	NO	YES	NO YES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	YKS	NO YES
4. Are all methods and method references correct on report	t? NO	YBS	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NO	Y	NO YES
6. Is the report formatted correctly?		YES	NO YES
7. Does the following information on report correspond to printout information from the analytical instrumentation	the n:		
Sample Matrix	NO	YES	NO YES
Analyst	NO	XES	NO YES
Analysis Date/Time	NO	YÈS	NO YES
Analyte concentration	5	YES	NO YES
Units	NO	YES>	NO YES
Dilution Factors/Conversions	NO	YES	NO YES
Detection/Reporting/Quant. Limits	NO	YES	NO YES
QC Reviewed:		YES	YES
<i>Initial*:</i> * MJH = Michael Heard, KD = K	evin Doriety, MSI	H = Matt Hageman	KH = Kelly Hester
Llog alarad Line ators	annati Tana (TY) a tabét		* * * ***
	ce #2	40344	
Notes:	Sutherla	und Environmental (Co., Inc.

Sutherland Environmental Company Inc.

Date Received: 1/11/10	Invoice #	4	0344	
Method of Delivery: hand	Client:	Spl	neve 3	
. Did any containers arrive broken?		YES	YNO	
* If so, please state field ID with analysis of broken sample	e(s)			
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper teamperature $(4^{\circ}C)$	+/- 2°C)?	YES	NO	NA
4. Did a chain of custody accompany the samples?		TES	NO	
* Was it properly filled out?		VYES	NO	
5. Were correct containers used for the analysis requested?		YES	NO	
5. Were all containers properly preserved?		VYES	NO	NA
7. Were all water samples received at the proper pH?		FES	NO	NA
3. If VOA vials were present, was there any head space?		YES	Mo	NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of cu	stody?	VES	NO	
0. Did containers arrive within holding time of analysis?		YES	NO	
* If not, please state field ID and analysis of sample(s) out	of holding time:			
		N		
11. Was client informed of any/all deficiencies in sample chee	ck-in?	YES	NO	UNA A
12. Were any samples rejected?		YES	No	
* If so, please state field ID of rejected sample(s):				

Sample Custodian (signed):

M. Can

																													4	40	13.	42	1
SUTHERLAND ENVIRONMEN	ITAL	2515	5th A	venu	e Sou	ith			Ph	one	. 21	05 6	221	0.5	00											1	C		Ľ			3-	7
COMPANY, INC.	tututustes.	Birmi	naha	m. A	L 352	233				Fax	. 21	055	581	95	00											1	3	r		E	R		3
			U												0.1												EN	GI	NE	EFF	RIN	IG,	INC
Consultant Name:	SPHERE 3 E	ngineeri	ing, Ir	IC.																F	age	#• F	ade	1 of	2								
Address	3433 Sierra E	Drive						-											I	nvo	ice T	0: 5	SPHE	RE	3 En/	ainer	erina	Inc	1	- 101		-	
City/State/Zip:	Hoover, Alab	ama 35	216			- in a													3	Rep	ort T	o: (G.Hoa	aglar	nd/J.I	Hunt	er/G.	Kar	stens	s/mai	loria	inal	
Client:	Lalani Enterp	rises																		Pro	ject	#: L	.E220	QS.C)2						ong	inter	-
Consultant Project Mgr:	Greg Hoaglar	nd																UST	r Ind	ide	nt No	o.: l	JST1	8-11	-01								
Consultant Telephone Number:	(205) 403.33	17		_		Fa	x N	o.:	(20	5) 4(03.3	3318	3			_			Fa	cili	y ID	#: ⊦	lighw	/ay 2	2 Qu	Jick S	Stop					1000	
Sampler Name: (Print)	Tres Bond, Ji	mmy Jo	hnsoi	n															Site	e Ac	dres	s: 4	014	4th A	Aveni	ue N	orth						
Sampler Signature:	Lana	1	C_														Ci	ity, (Cou	nty,	State	e: _	lanto	on, C	hilto	n Co	unty,	, Ala	bam	а			
	1			_				F	Pres	serva	ative	е			N	/atri	х			-MA		A	nalyz	e Fo	or:	-		٦					
Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCI (Blue Label)	VaOH (Orange Label) H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	HNO ₃ (Red Label)	Vone (Black Label)	Groundwater	Nastewater Drinking Mater	Sludge	Soil	Other (specify); WATER	TEX/MTBE 8260B	AH 8270C	EMPERATURE							JSH TAT (Pre-Schedule)	AT request (in Bus. Days)	DF Results (yes or no)		le Date of Report	
MW-1 201474	01/10/10	15.02	1	V		-	-				-	-	2		> L	5 00	05	0	m		F	+	+	+	\vdash	-	+	Ř	TA	<u>a</u> ,		DU	
MW 2 201475	01/10/19	15.02	4					-	<u>×</u>	-	+	\vdash	×		-		-	\square	X	X	-	+	-	+	\square	-	-	+	Ν	Y		_	
1010-2 201719	01/10/19	14:06	4	X				-	X	-		\vdash	X	X	-	-			X	Х	-	-							Ν	Y			
MIV-3 201410	01/10/19	13:11	4	X					X				X	X	-				X	X									N	Y			
MW-4 201411	01/10/19	13:48	4	X	_				X				X	X					X	X									N	Y		1020	
MW-5 201478	01/10/19	11:17	4	X					X				X	X					X	X								T	N	Y			
MW-6 201479	01/10/19	10:43	4	X					x				X	x					x	X		1				+	+	+	NI	V			
MW-7 2.01480	01/10/19	10.22	4	X			1		x		Η		V		+	1			$\overline{\mathbf{v}}$		+	+	+	\vdash	\vdash	+	+	+	IN	T			
MW-8 201481	01/10/19	12.14	4	X				ĺ,		+	Η				+	+				$\frac{1}{\sqrt{2}}$	-	+	-	+		+	+	+	N	Y			
MW-9 201482	01/10/10	11.51				-	+	ť		+	H		$\frac{1}{2}$		+	-			×	X	+	+	+	\vdash	\vdash	+	+	+	N	Y			
MIN 11 701A97	01/10/19	11.01	4			-+	+		X	+	\square	-	X /	×	+	+		-	X	X	-	-	+	\square	\vdash	-	_	\bot	N	Y			
Comments/Special Instructions:	01/10/19	14:33	4	X					X				X	X					X	X									N'	Y			
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Relinquished by:	Date		Ti	me	Recei	ved b	y:					100		Τ	D	ate		Т	ime		QC De	live	rable	s (ple	ease	<u>circl</u> e	one			*			
7 10	11111	19	20	110																L	evel 2	2						5					
Relinquished by:	Date	(me	Recei	ved by	1				-	-	-	+	D	ato	-	ा	ime	L	evel :	3											
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COMPANY, INC.		Birmin	ghan	n, AL	352	33			Fa	ix: 2	205	581	950	4												ΕN	IG I	Ν	ΕE	RII	NG,	INC
Consultant Name:	SPHERE 3 Er	ngineerin	ng, Inc																Pag	e#	: Pa	ge 2	of2	2								
Address:	3433 Sierra D	rive													-11			Inv	oice	То	: SP	HEF	RE 3	Eng	ginee	erind	, Inc					
City/State/Zip:	Hoover, Alaba	ama 352	216				- 110,010	111.000							-0			Re	port	То	: G.H	load	alan	d/J.I	Junt	er/G	Kars	ster	ns/ma	il ori	ainal	
Client:	Lalani Enterp	rises													-			P	roie	ct #	: LE	220	S.02	2							9	
Consultant Project Mar:	Greg Hoaglar	nd	112-14						1990-1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1							US	ST In	ncid	ent	No.	: US	T18	-11-	01								
Consultant Telephone Number:	(205) 403.331	7				Fa	k No	.: (2	205)	403	.331	8			-		F	aci	lity I	D #	: Hic	hwa	av 22	2 ()	lick S	Stop						
Sampler Name: (Print)	Tres Bond, Ji	mmy Joh	nson			n nevere		<u></u>			21515			and the second	-		Si	te A	ddr	ess	: 40	14 4	th A	ven	ue N	lorth						
Sampler Signature:	1	Fr	-												- 0	Citv	. Co	unt	v. St	ate	: Cla	intor	n. C	hilto	n Co	ount	/ Ala	bar	na	-		
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	I	1	-					Pr	ese	rvati	Ive	T		IVIE	atrix	-	+	1	T	Т	Ana	iyze		:		-	-	10				
Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate HCI (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label) HNO ₃ (Red Label)	None (Black Label)	Groundwater Masterrater	Vrasiewater Drinking Water	Sludge	Other (snecify) \/\ATER	BTEX/MTBE 8260B	PAH 8270C	BTEX/MTBE/NAPHTHA 8260B	TEMPERATURE							RUSH TAT (Pre-Schedule	TAT request (in Bus. Davs	PDF Results (yes or no)		Due Date of Report	
MW-12 201484	01/10/19	15.21	4	x				X				X	x			+	X	X		ť	1						T	N				
MW-13 201485	01/10/19	15:47	4	X				×			+	X	X	-		+	X	X		+								N				
MW-DW1 701486	01/10/19	13:29	4	Х				X				X	X			+	X	X		t								N	IY			
DUP-1 201487	01/10/19		3	Х				X				X	X			T	X		X									N	IY			
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Comments/Special Instructions:	1	1						_	-		_	-		- Karak		-	-	1	La	bor	rator	y Co	omn	nent	s:	_	_	-	11			
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Phone: 205 581 9500

2515 5th Avenue South

SUTHERLAND ENVIRONMENTAL

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	June 19, 2019	
Attention:	Mr. Greg	g Hoagland	Reference #	41076	
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.04	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
					с. Л.
Sample Ma	trix:	water	Analytical		
Date Recei	ved:	6/13/19	Analyst:	Hageman/Heard	
Date Collec	cted:	6/12/19	Date of Analysis:	6/15/19	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8260B	

	VOLAT	ILE OR	GANICS	S - BTEX	<b>MTBE</b>		
	FIELD ID	FIELD ID	<b>FIELD ID</b>	FIELD ID	FIELD ID	FIELD ID	
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	
Volatile	LAB ID	Detection					
Organic, mg/L	205174	205175	205176	205177	205178	205179	Limit, ppm
Benzene	0.600	12.300	14.500	0.181	BDL	BDL	0.001
Toluene	0.039	43.800	66.800	0.100	BDL	0.001	0.001
Ethylbenzene	0.083	6.760	9.300	0.473	BDL	BDL	0.001
Xylenes, o,m,p	0.429	37.800	48.900	1.290	0.003	0.005	0.003
MTBE	0.035	17.500	1.960	0.004	BDL	BDL	0.001
	<b>FIELD ID</b>	<b>FIELD ID</b>	FIELD ID	<b>FIELD ID</b>	<b>FIELD ID</b>	<b>FIELD ID</b>	
	MW-7	<b>MW-8</b>	MW-9	<b>MW-11</b>	<b>MW-12</b>	MW-13	
Volatile	LAB ID	Detection					
Organic, mg/L	205180	205181	205182	205183	205184	205185	Limit, ppm
Benzene	BDL	0.007	2.010	0.464	BDL	13.700	0.001
Toluene	0.009	0.004	12.000	0.084	BDL	57.200	0.001
Ethylbenzene	0.007	0.020	7.240	0.061	BDL	8.940	0.001
Xylenes, o,m,p	0.041	0.016	35.200	0.473	BDL	46.600	0.003
MTBE	BDL	BDL	0.064	0.044	BDL	16.700	0.001

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	June 19, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	41076
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.04
Hoover, A		AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	triv.	watar	Applytical	
Data Data	unx.	water	Analytical	11
Date Recei	vea:	6/13/19	Analyst:	Hageman/Heard
Date Colle	cted:	6/12/19	Date of Analysis:	6/15-17/19
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8260B

VOLATI	LE OR	GANICS	- BTEX	MTBE/	NAPHTI	HALENE	C
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	<b>MW-14</b>	MW-15	MW-16	<b>MW-17</b>	MW-18	MW-DW1	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	205186	205187	205188	205189	205190	205191	Limit, ppm
Benzene	0.002	0.003	0.001	0.001	1.200	BDL	0.001
Toluene	0.015	0.006	0.004	0.011	2.480	BDL	0.001
Ethylbenzene	0.002	0.002	BDL	0.070	0.436	BDL	0.001
Xylenes, o,m,p	0.013	0.007	0.004	0.322	2.260	BDL	0.003
MTBE	BDL	0.001	0.004	0.008	0.654	BDL	0.001
	FIELD ID						
	DUP-1						
Volatile	LAB ID						Detection
Organic, mg/L	205192						Limit, ppm
Benzene	0.467						0.001
Toluene	0.099						0.001
Ethylbenzene	0.058						0.001
Xylenes, o,m,p	0.462						0.003
MTBE	0.041						0.001
Naphthalene	0.015						0.005

Result is above method detection limit and below reporting limit BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

Respectfully submitted,

Noi Dorg

Kevin Doriety Analytical Chemist

EPA Laboratory ID AL01084

/ QAQC

MA

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	June 19, 2019
Attention:	Mr. Greg	g Hoagland	Reference #	41076
Address:	3433 Sie	rra Dr.	P.O. #	LE22QS.04
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
C 1. M			E' D	615.413.0
Sample Ma	itrix:	water	Extraction Date:	6/14/19
Date Recei	ved:	6/13/19	Analyst:	Hageman/Heard
Date Colle	cted:	6/12/19	Date of Analysis:	6/18/19
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8270C

POL	YNUCL	EAR AR	OMATI	C HYDR	OCARE	BONS	
	FIELD ID						
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	
Polynuclear	LAB ID	Detection					
Aromatics, ppm	205174	205175	205176	205177	205178	205179	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Naphthalene	0.010	0.532	0.537	0.193	BDL	BDL	0.001
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	June 19, 2019	
Attention:	Mr. Greg	Hoagland	Reference #	41076	
Address:	3433 Sie	rra Dr.	P.O. #	LE22QS.04	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Sample Ma	trix:	water	Extraction Date:	6/14-17/19	
Date Recei	ved:	6/13/19	Analyst:	Hageman/Heard	
Date Colle	cted:	6/12/19	Date of Analysis:	6/18-19/19	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8270C	

POL	YNUCL	EAR AR	OMATI	C HYDR	OCARE	BONS	
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	
	MW-7	<b>MW-8</b>	<b>MW-9</b>	MW-11	<b>MW-12</b>	<b>MW-13</b>	
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Aromatics, ppm	205180	205181	205182	205183	205184	205185	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	BDL	0.001	BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Naphthalene	0.031	0.034	0.671	0.011	BDL	0.455	0.001
Phenanthrene	BDL	BDL	0.001	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	phere 3 Engineering, Inc. Report Date:		June 19, 2019
Attention:	Mr. Greg	, Hoagland	Reference #	41076
Address:	3433 Sie	rra Dr.	P.O. #	LE22QS.04
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Sample Ma	trix:	water	Extraction Date:	6/17/19
Date Recei	ved:	6/13/19	Analyst:	Hageman/Heard
Date Colle	cted:	6/12/19	Date of Analysis:	6/19/19
Sample Co	llector:	T Bond/L Johnson	Method:	EPA Method 8270C

POL	YNUCL	EAR AR	OMATI	C HYDR	OCARE	BONS	
	FIELD ID	FIELD ID					
	<b>MW-14</b>	<b>MW-15</b>	<b>MW-16</b>	<b>MW-17</b>	<b>MW-18</b>	MW-DW1	
Polynuclear	LAB ID	LAB ID	Detection				
Aromatics, ppm	205186	205187	205188	205189	205190	205191	Limit, ppm
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Naphthalene	0.003	0.005	0.003	0.011	0.141	BDL	0.001
Phenanthrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

MA I QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Dere

Kevin Doriety Analytical Chemist

### Sutherland Environmental Read and Review Checklist

1. Is the client and the sample collector(s) accurately note on report?	d NO YAS	NOYES
2. Do all dates match the COC on the report?	NOYS	NOXES
3. Is the purchase order ID (PO) and project ID accurately noted on report?	NO	NO
4. Are all methods and method references correct on report	rt? NO YKS	NO YES
5. Do the Field ID(s) and the Lab ID(s) correspond to the COC?	NOY	NO YES
6. Is the report formatted correctly?	NO	NO YES
7. Does the following information on report correspond to printout information from the analytical instrumentation	the n:	
Sample Matrix	NOYDS	NOYES
Analyst	NO	NOYES
Analysis Date/Time	NO	NO YES
Analyte concentration	* YES	YES YES
Units	NO	NO YES
Dilution Factors/Conversions	NO	NOKES
Detection/Reporting/Quant. Limits	NO	NO YES
QC Reviewed:	HES	YES
<i>Initial*:</i> * MJH = Michael Heard, KD = K	evin Doriety, MSH = Matt Hagema	n, KH = Kelly Hester
PDF: Hoagland, Hunter	se# 41076	)
Notes:	Sutherland Environmenta	Co., Inc.

### Sutherland Environmental Company Inc.

Date Received: 6 13/19	Invoice #	4	1076	
Method of Delivery: <u>hand</u>	Client:	SP	here z	3
1. Did any containers arrive broken?		YES	646	
* If so, please state field ID with analysis of broken samp	ole(s)			
2. Were cooler(s) sealed upon arrival?		<b>M</b> ES	NO	NA
3. Were the samples received at the proper teamperature ( $4^{\circ}$	C +/- 2°C)?	<b>V</b> _{YES}	NO	NA
4. Did a chain of custody accompany the samples?		VYES	NO	
* Was it properly filled out?		VES	NO	
5. Were correct containers used for the analysis requested? .		VYES	NO	
5. Were all containers properly preserved?		$\bigvee_{\rm YES}$	NO	NA
7. Were all water samples received at the proper pH?		<b>W</b> ES	NO	NA
3. If VOA vials were present, was there any head space?		YES	NO	NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of c	custody?	YES	NO	
10. Did containers arrive within holding time of analysis?		YES	NO	
* If not, please state field ID and analysis of sample(s) of	ut of holding time: _			
11. Was client informed of any/all deficiencies in sample ch	eck-in?	YES	NO	64A
12. Were any samples rejected?		YES	NO	
* If so, please state field ID of rejected sample(s):				

SUTHERLA COMPANY,	ND ENVIRONMEN INC.	ITAL	2515 Birmi	5th A ngha	wenu m, A	ue So L 35:	uth 233			Ph	one Fax	e: 2 c: 2	205 205	581 581	95	500 504												S	P		О [.]			,   N	<b>5</b>
	Consultant Name:	SPHERE 3 E	ngineeri	ing, In	IC.																	age	<b>#</b> : F	age	10	f 2									
	Address	: 3433 Sierra D	Drive				-		_											1	Invo	ice T	0: 5	SPH	ERE	3 E	nain	eerinc	a. Inc					-	
	City/State/Zip:	Hoover, Alaba	ama 35	216																	Rep	ort T	o: (	G.Ho	agla	and/	J.Hur	nter/G	.Kar	sten	s/ma	ail ori	ginal		
	Client:	Lalani Enterp	rises																		Pr	oject	#: L	E22	QS.	04							ginan	0	
Consultu	Consultant Project Mgr:	Greg Hoaglar	nd							_									US	T In	cide	nt No	<b>.</b> .: [	JST1	8-1	1-01									
Consulta	Sampler Name: (Print)	(205) 403.331	17	• • • • • • • • • • • • • • •			- Fa	ix N	o.:	(20	5) 4	03.3	3318	8						Fa	acili	ty ID	<b>#</b> : ⊦	lighv	vay	22 C	Quick	(Stop	1						
	Sampler Name. (Print)		mmy Joi	hnsor	1	1	4	1	1	4	7		-		_	_	_			Site	e Ad	Idres	s: 4	014	4th	Ave	nue	North					nessea		
	Sampler Signature.	~~~	6	2	1	4	100	16	1.	V								С	ity,	Cou	inty	Stat	e: _C	Clant	on,	Chilt	on C	ounty	/, Ala	bam	na				
		T	1	1	1	-	,		F	Pres	serv	ativ	е			Ν	Aatı	rix					A	nalyz	e F	or:									
Sample ID or Fi MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-6 MW-7 MW-8 MW-8	eld ID 205174 205175 205176 205176 205179 205180 205180 205181 205181	b           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19           06/12/19	Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Performance Perfo	A     A     A       A     A     A       A     A     A	X X Crab	Composite	Field Filtered	Methanol	Sodium Bisulfate	X X X X X X HCI (Blue Label)	H-SO4 Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	HNO ₃ (Red Label)	X X X X X X X X X None (Black Label)	X X X X X X X X Groundwater	Wastewater		Soil	Other (specify): WATER	$\times \times BTEX/MTBE 8260B$	X X X X X X X X X PAH 8270C	TEMPERATURE							RUSH TAT (Pre-Schedule)	ZZZZZZZZZIAT request (in Bus. Days)	A A A A A A A A PDF Results (yes or no)		Due Date of Report		
10100-9	100182	06/12/19	11:34	4	Х			$\vdash$	)	X	-			X	X					X	X									N	Y				
MW-11	100 83	06/12/19	16:22	4	Х		1		>	<				X	X					X	X									N	Y				
comments/Spec	cial Instructions:																					aboi Te Sa	amp	ry C eratu le Co	omi ire l onta	nent Jpon iners	ts: n Rec s Inta	ceipt: act?	1300		N				
Relinquished by:		Date		Tir	ne	Recei	ved b	y:			1					D	ate		Г	Гime			eliver	able	s (pl	ease	uspa e circ	le one	e)	(	N				
The	60	6/13/	19	16	:34																L	evel 2 evel 3	2					2 0110	1						
Relinquished by:		Date		Tin	ne	Recei	ved b	y:	12 - 11 21						1	D	ate		Т	ime		evel 4	1												
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SUTHERLAND ENVIRONMEN	ITAL	2515	5th A	venu	ie So	uth			Ph	one	e: 2	205	58 <i>°</i>	1 95	500													S	P		0-	16 R	, ? <b>F</b>	3	
COMPANY, INC.		Birmi	ngha	m, A	L 35	233				Fax	(: <b>2</b>	205	581	1 95	504													EN	IGI	Ν	EE	RI	NG	, I N I	C
Consultant Name	SPHERE 3 F	ngineeri	ing In																						0 202										
Address	: 3433 Sierra [	Drive		10.						SCAL M		-		-	-					Inv	Pag	e #:	Pa	ge 2	of 2	<u> </u>			-						
City/State/Zip	Hoover, Alab	ama 35	216													_				Rei	nort	To	G	HER	Ian		ginee	ering,	, Inc.	oton	alma	il ori			_
Client	: Lalani Enterp	rises	_																	Pr	oie	:t #:	LE	220	S.04	1	Turn	eno.	Nais	ten	s/ma	III OFIQ	ginai		_
Consultant Project Mgr	Greg Hoaglar	nd														_		US	T In	cid	ent	No.:	US	T18	-11-	01					_		-		
Consultant Telephone Number:	(205) 403.331	17				Fa	IX N	o.:	(20	5) 4	03.	331	8						F	acil	ity I	D #:	Hig	hwa	y 22	2 Qu	lick {	Stop		-	_				
Sampler Name: (Print	Tres Bond, Ji	mmy Jo	hnsor	1	1	1	4	1				2000							Sit	e A	ddr	ess:	40	144	th Av	veni	ue N	orth							_
Sampler Signature:	Law,	EI		-	Juny	14	U	in	-				_				C	City,	Co	unty	, St	ate:	Cla	ntor	n, Ch	niltor	n Co	ounty,	, Ala	bam	ia				_
		1		1	-	/		F	res	serva	ativ	/e			١	Mat	rix						Ana	lyze	For	:	_		٦						_
Sample ID or Field ID           MW-12         205[84           MW-13         205[85           MW-14         205[85	Date Sambler 06/12/19 06/12/19	peldues 17:27 14:31	+ + No. of Containers Shipped	X X Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	X X HCI (Blue Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO _a Glass(Yellow Label)	HNO ₃ (Red Label)	X X None (Black Label)	X X Groundwater	Wastewater		oude	Other (specify): WATER	× × BTEX/MTBE 8260B	× × PAH 8270C	BTEX/MTBE/NAPHTHA 8260B	TEMPERATURE							RUSH TAT (Pre-Schedule)	ZZTAT request (in Bus. Days)			Due Date of Report		
10100-14 200100	06/12/19	10:49	4	X		_		-	X	+	-		Х	Х	-				Х	Х										Ν	Y				
MVV-15 20918	06/12/19	11:08	4	X				2	X				Х	Х					Х	Х										N	Y				1
MW-16 206188	06/12/19	10:05	4	Х				2	X				Х	X					Х	Х										N	Y				1
MW-17 205189	06/12/19	9:22	4	Х				)	X				Х	X					X	Х										N	V				1
MW-18 205190	06/12/19	9:38	4	X				)	x				Х	X					X	х					+	+	+	-	+	N	<del>\</del>		-		-
MW-DW1 205191	06/12/19	15:33	4	Х				)	x				X	x	1	T			X	X					-	+	+	+	$\mathbf{H}$		+	_			-
DUP-1 205197	06/12/19		3	X			H	)		1			X	X	+	+	+			~	V		-	-	-	+	+	+	+	IN	Y -				-
TEMPERATURE BLANK							H	ť		+		+			+	+	+			-	^		-+	-	+	+	+	+	+	N	¥_		_		-
Comments/Special Instructions:								-	_	1	_		_			1	1	X		-	Lab	X	tory	CO	nme	ante	<u> </u>			N	Y				
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Im bl	6/13/1	19	16:	05			-10									al Vef2025			anna 249		Leve Leve	el 2 el 3		100	pice	000	100	<u>one</u> )							
rceiinquisnea by:	Dale		Tir	ne	Recei	ved b	y: [ .	(		W	N	_			C	ate	3	4	Time	5	Leve Site Proje	el 4 Spe ect N	cific ⁄lana	- if y ger i	es, p or ati	leas tach	se pri	e-sch cifc in	edul	e w/	SUT	HER	LANI	D	

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	September 20, 2019
Attention:	Mr. Greg	Hoagland	Reference #	41579
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.05
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop
Tura Tura In No				
Sample Ma	trix:	water	Analytical	
Date Recei	ved:	9/13/19	Analyst:	Hageman/Heard
Date Collec	cted:	9/12/19	Date of Analysis:	9/15/19
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8260B

	VOLAT	TILE OR	GANICS	S - BTEX	<b>K/MTBE</b>		
	FIELD ID	FIELD ID	<b>FIELD ID</b>	<b>FIELD ID</b>	<b>FIELD ID</b>	FIELD ID	
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-7	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	207622	207623	207624	207625	207626	207627	Limit, ppm
Benzene	0.126	8.120	6.220	0.027	BDL	BDL	0.001
Toluene	0.005	25.400	37.200	0.031	0.001	BDL	0.001
Ethylbenzene	0.009	3.690	4.900	0.072	BDL	BDL	0.001
Xylenes, o,m,p	0.052	20.800	25.400	0.441	BDL	BDL	0.003
MTBE	0.028	14.800	0.070	BDL	BDL	BDL	0.001
	FIELD ID	<b>FIELD ID</b>	<b>FIELD ID</b>	FIELD ID	<b>FIELD ID</b>	FIELD ID	
	<b>MW-8</b>	MW-9	<b>MW-11</b>	<b>MW-12</b>	<b>MW-13</b>	MW-14	
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection
Organic, mg/L	207628	207629	207630	207631	207632	207633	Limit, ppm
Benzene	0.002	2.720	0.046	0.001	7.360	0.018	0.001
Toluene	BDL	29.400	0.088	BDL	40.600	0.005	0.001
Ethylbenzene	BDL	14.700	0.016	BDL	7.260	0.005	0.001
Xylenes, o,m,p	BDL	60.400	0.093	0.004	36.800	0.010	0.003
MTBE	BDL	0.015	0.017	BDL	4.080	0.001	0.001

Result is above method detection limit and below reporting limit

BDL = Below Detection Limit, Method

Detection Limit is Method Detection Limit

All results expressed as ppm (mg/L) of analyte

Samples preserved with HCL and refrigerated at 4 degrees C

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	September 20, 2019	_
Attention:	Mr. Greg	g Hoagland	Reference #	41579	
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.05	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Sample Ma	atrix:	water	Analytical		_
Date Recei	ved:	9/13/19	Analyst:	Hageman/Heard	
Date Colle	cted:	9/12/19	Date of Analysis:	9/15-16/19	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8260B	

VOLAT	<b>VOLATILE ORGANICS - BTEX/MTBE/NAPHTHALENE</b>												
	FIELD ID	<b>FIELD ID</b>	<b>FIELD ID</b>	<b>FIELD ID</b>	FIELD ID	FIELD ID							
	MW-15	<b>MW-16</b>	<b>MW-17</b>	<b>MW-18</b>	MW-DW1	DUP-1							
Volatile	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Organic, mg/L	207634	207635	207636	207637	207638	207639	Limit, ppm						
Benzene	3.630	BDL	0.001	3.740	0.001	0.001	0.001						
Toluene	14.600	BDL	0.003	0.990	0.005	BDL	0.001						
Ethylbenzene	3.240	BDL	BDL	1.370	BDL	BDL	0.001						
Xylenes, o,m,p	14.600	BDL	0.012	5.130	0.005	BDL	0.003						
MTBE	0.023	0.007	0.003	1.570	BDL	BDL	0.001						
Naphthalene						BDL	0.005						

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as ppm (mg/L) of analyte Samples preserved with HCL and refrigerated at 4 degrees C

/ QAQC

EPA Laboratory ID AL01084

Respectfully submitted,

Noi Donaty

Kevin Doriety Analytical Chemist

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	September 20, 2019	
Attention:	Mr. Greg	g Hoagland	Reference #	41579	
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.05	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Sample Ma	atrix:	water	Extraction Date:	9/17/19	
Date Recei	ved:	9/13/19	Analyst:	Hageman/Heard	
Date Colle	cted:	9/12/19	Date of Analysis:	9/19/19	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8270C	

POLYNUCLEAR AROMATIC HYDROCARBONS												
	FIELD ID											
	MW-1	MW-2	MW-3	MW-4	MW-5	<b>MW-7</b>						
Polynuclear	LAB ID	Detection										
Aromatics, ppm	207622	207623	207624	207625	207626	207627	Limit, ppm					
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001					
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001					
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005					
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001					
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005					
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					
Naphthalene	0.003	0.814	0.862	0.067	BDL	0.003	0.001					
Phenanthrene	BDL	0.001	BDL	BDL	BDL	BDL	0.001					
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001					

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	September 20, 2019	
Attention:	Mr. Greg	g Hoagland	Reference #	41579	
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.05	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
Sample Ma	atrix:	water	Extraction Date:	9/17/19	
Date Recei	ved:	9/13/19	Analyst:	Hageman/Heard	
Date Collec	cted:	9/12/19	Date of Analysis:	9/19-20/19	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8270C	

POL	POLYNUCLEAR AROMATIC HYDROCARBONS												
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	MW-8	MW-9	<b>MW-11</b>	<b>MW-12</b>	<b>MW-13</b>	<b>MW-14</b>							
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID	Detection						
Aromatics, ppm	207628	207629	207630	207631	207632	207633	Limit, ppm						
Acenaphthene	BDL	0.001	BDL	BDL	BDL	BDL	0.001						
Acenaphthylene	BDL	BDL	BDL	BDL	BDL	BDL	0.001						
Anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001						
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001						
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001						
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001						
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005						
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.0001						
Chrysene	BDL	BDL	BDL	BDL	BDL	BDL	0.0005						
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL	BDL	0.001						
Fluoranthene	BDL	BDL	BDL	BDL	BDL	BDL	0.001						
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	0.001						
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001						
Naphthalene	BDL	2.260	0.005	BDL	0.916	0.016	0.001						
Phenanthrene	BDL	0.002	BDL	BDL	BDL	BDL	0.001						
Pyrene	BDL	BDL	BDL	BDL	BDL	BDL	0.001						

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

#### Environmental Company, Inc.

2515 5th Avenue South Birmingham, AL 35233 205-581-9500



Client:	Sphere 3	Engineering, Inc.	Report Date:	September 20, 2019	
Attention:	Mr. Greg	g Hoagland	Reference #	41579	
Address:	3433 Sie	rra Drive	P.O. #	LE22QS.05	
	Hoover,	AL 35216	Project ID:	Highway 22 Quick Stop	
0 1 1 1					
Sample Ma	itrix:	water	Extraction Date:	9/17-18/19	
Date Recei	ved:	9/13/19	Analyst:	Hageman/Heard	_
Date Collec	cted:	9/12/19	Date of Analysis:	9/19/19	
Sample Co	llector:	T. Bond/J. Johnson	Method:	EPA Method 8270C	

POLYNUCLEAR AROMATIC HYDROCARBONS												
	FIELD ID	FIELD ID	FIELD ID	FIELD ID	FIELD ID							
	MW-15	<b>MW-16</b>	<b>MW-17</b>	<b>MW-18</b>	MW-DW1							
Polynuclear	LAB ID	LAB ID	LAB ID	LAB ID	LAB ID		Detection					
Aromatics, ppm	207634	207635	207636	207637	207638		Limit, ppm					
Acenaphthene	BDL	BDL	BDL	BDL	BDL		0.001					
Acenaphthylene	BDL	BDL	BDL	BDL	BDL		0.001					
Anthracene	BDL	BDL	BDL	BDL	BDL		0.001					
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL		0.001					
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL		0.0001					
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL		0.0001					
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL		0.0005					
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL		0.0001					
Chrysene	BDL	BDL	BDL	BDL	BDL		0.0005					
Dibenzo(ah)anthracene	BDL	BDL	BDL	BDL	BDL		0.001					
Fluoranthene	BDL	BDL	BDL	BDL	BDL		0.001					
Fluorene	BDL	BDL	BDL	BDL	BDL		0.001					
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL		0.001					
Naphthalene	0.785	BDL	0.004	0.474	BDL		0.001					
Phenanthrene	BDL	BDL	BDL	BDL	BDL		0.001					
Pyrene	BDL	BDL	BDL	BDL	BDL		0.001					

BDL = Below Detection Limit, Method Detection Limit is Method Detection Limit All results expressed as PPM (mg/L)

/ QAQC 8

EPA Laboratory ID AL01084

Respectfully submitted,

Nei Done

Kevin Doriety Analytical Chemist

### Sutherland Environmental Read and Review Checklist

1. Is the client and the on report?	sample collector(s) accurately noted	NO	THES	NO YES
2. Do all dates match t	he COC on the report?	NO	y ks	NO YES
3. Is the purchase orde noted on report?	r ID (PO) and project ID accurately	NO	Y	NO YES
4. Are all methods and	method references correct on report	t? NO	YKS	NO YES
5. Do the Field ID(s) a COC?	nd the Lab ID(s) correspond to the	NO	Y	NO YES
6. Is the report formatt	ed correctly?	-	YES	NO YES
7. Does the following printout information	nformation on report correspond to a from the analytical instrumentation	the n:		
S	ample Matrix	NO	YES	NO YES
А	nalyst	NO	YES	NO YES
А	nalysis Date/Time	NO	YDE	NO YES
А	nalyte concentration		YES	VES YES
U	nits	NO	YRS	NO YES
D	ilution Factors/Conversions	NO	THE	NO YES
D	etection/Reporting/Quant. Limits	NO	XES	NO YES
Q	C Reviewed:		XES	YES
I	nitial*: * MJH = Michael Heard, KD = K6	 evin Doriety, M	MSH = Matt Hager	han, KH = Kelly Hester
PDF: HOAGA	nd, Hunter	ce #	41570	1
Notes:		Suth	erland Environment	al Co., Inc.

### Sutherland Environmental Company Inc.

Sample Chec	k-in Form			
Date Received: 91319	Invoice #	_4	1579	
Method of Delivery: <u>hand</u>	Client:	Sp	here 2	)
1. Did any containers arrive broken?		YES	Ko	
* If so, please state field ID with analysis of broken sampl	e(s)			-
2. Were cooler(s) sealed upon arrival?		YES	NO	NA
3. Were the samples received at the proper teamperature $(4^{\circ}C)$	C +/- 2°C)?	VES	NO	NA
4. Did a chain of custody accompany the samples?		YES	NO	
* Was it properly filled out?		YES	NO	l .
5. Were correct containers used for the analysis requested?		VIES	NO	
6. Were all containers properly preserved?		YES	NO	NA
7. Were all water samples received at the proper pH?		VES	NO	NA
8. If VOA vials were present, was there any head space?		YES	Vio	NA
* If so, please state field ID of deficient sample(s):				
9. Were all containers properly labeled and match chain of cu	istody?	YES	NO	
10. Did containers arrive within holding time of analysis?		YES	NO	
* If not, please state field ID and analysis of sample(s) out	of holding time:			
11. Was client informed of any/all deficiencies in sample che	ck-in?	YES	NO	<b>K</b> IA
12. Were any samples rejected?	[	YES	No	
* If so, please state field ID of rejected sample(s):		5.etu)		
Sample Custodian (signed):	1			



Consultant Name:	SPHERE 3 Engineering, Inc.																Pag	je #:	Pag	e 1 d	of 2	1											
Address:	3433 Sierra Drive												Invoice To: SPHERE 3 Engineering, Inc.																				
City/State/Zip:	Hoover, Alabama 35216 Lalani Enterprises												Report To: G.Hoagland/J.Hunter/mail original																				
Client:													Project #: LE22QS.05																				
Consultant Project Mgr:	Greg Hoaglan	d															UST Incident No.: UST18-11-01																
Consultant Telephone Number:	(205) 403.331	7				Fax	< No	<b>.:</b> (	205)	403	3.33	318					Facility ID #: Highway 22 Quick Stop																
Sampler Name: (Print)	Tres Bond, Jir	mmy Joh	nson					Bann								2		Si	te A	ddr	ess:	401	4 4th	n Ave	enue	North	n						
Sampler Signature:	1	l -	K	-						in transf						W	City	, Co	unty	/, St	tate:	Clar	nton,	Chil	Iton (	Count	ty, A	labai	ma				
			_					Ρ	rese	ervat	tive				Ma	atrix Analyze For:																	
Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	NaOH ( Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	HNO ₃ (Red Label)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	BTFX/MTBF 8260B	PAH 8270C	TEMPERATURE								RUSH TAT (Pre-Schedule)	.PDF Results (yes or no)		Duto Data of Donat		
MW-1 207627	09/12/19	16:09	4	Х				;	x			)						X	X									N	VY	1			
MW-2 207623	09/12/19	15:38	4	х				)	x			)	$\langle \rangle$					X	X										Y				
MW-3 207624	00/12/19	12:08	4	Х				)	x			)	$\langle \rangle$					X	X									N	VY				
MW-4 207625	09/12/19	12:56	4	Х				)	x			)						X	X									N	1Y				
MW-5 207626	09/12/19	14:02	4	Х				)	x			)	$\langle \rangle$					X	X									N	VY				
MW-7 207627	09/12/19	14:25	4	Х				)	X			)	$\langle \rangle$	<				X	X									N	VY				
MW-8 207628	09/12/19	13:17	4	Х				)	x			)	$\langle \rangle$	$\langle  $				X	X									N	VY				
MW-9 207629	09/12/19	10:42	4	х				;	x			)	$\langle \rangle$	$\langle  $				X	X									N	VY				
MW-11 207630	09/12/19	15:24	4	Х				)	x			)	$\langle \rangle$	$\langle  $				X	X									N	VY				
MW-12 207631	09/12/19	16:29	4	Х				)	x			)	$\langle \rangle$	$\langle  $				X	X									N	VY				
Comments/Special Instructions:																				La	Ter Sar VO	nper nple Cs F	Cor Cor ree	mme e Up ntaine of He	on R on R ers I eads	leceip ntact? pace?	it: 2	400	N N				
Relinquished by:	Date	117	Tir	me	Rece	ived I	oy:								D	ate		Tir	ne	QC Le Le	C Deli vel 2 vel 3	veral	oles_	(plea	ise ci	rcle or	<u>ne)</u>						
Relinquished by:	Date		Tir	me	Rece	ived I	by:	(	a	W	1			0	1	ate 13		Tir 8:2	ne 30	Le Sit Pro	vel 4 e Spe oject	ecific Mana	- if y ager	es, p or att	lease tach	e pre-s specif	sche c ins	dule tructi	w/ S ions	UTH	ERLA	ND	

Phone: 205 581 9500

Fax: 205 581 9504

2515 5th Avenue South

Birmingham, AL 35233

SUTHERLAND ENVIRONMENTAL

COMPANY, INC.



	Consultant Name:	SPHERE 3 Er	ngineerin	ig, Inc	<b>5</b> .																P	age	#:	Page	2 of	f 2									
	Address: 3433 Sierra Drive												-			In	voi	ce 1	o: 1	SPHI	ERE	3 Er	ngine	ering	, Inc.										
City/State/Zip: Hoover, Alabama 35216															R	lep	ort 1	o: (	G.Ho	agla	ind/J	Hun	ter/m	ail ori	gina	al				100					
Client: Lalani Enterprises																Pro	ject	#:	E22	QS.	05				0										
Consultant Project Mgr: Greg Hoagland											1	U	ST	Inc	ide	nt N	o.:	JST	18-1	1-01									-						
Consulta	nt Telephone Number:	(205) 403.331	7				Fa	x No	<b>b.:</b> (	205	) 403	3.33	318				-			Fa	cilit	y ID	#:	High	way 2	22 Q	uick	Stop							
	Sampler Name: (Print)	Tres Bond, Jir	nmy Joh	nson															5	Site	Ad	dres	s: 4	1014	4th	Aver	nue N	North							-
Sampler Signature:										City	y, C	oui	nty,	Sta	te:	Clant	on, (	Chilt	on Co	ounty	, Alat	bam	а												
Preservative Matrix																			A	naly:	ze Fo	or:				101									
Sample ID or Fi	eld ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	NoOH ( Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass(Yellow Label)	HNO ₃ (Red Label) None (Black Label)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify): WATER	31 EX/M1BE 8260B	PAH 8270C	TEX/MTBE/NAPHTHA 8260B	EMPERATURE						(USH TAT (Pre-Schedule)	AT request (in Bus. Days)	PDF Results (yes or no)		ue Date of Report		
M\A/_13	2071022	00:12/19	11.18	1	X	-			,	1	+		>		,				-	V	V	-			+				-		V				1
MW-14	207632	09/12/19	11:01	4	X	_			ť	< l			,	( x		$\vdash$				x	x				+					N	Y				1
MW-15	207634	0 <b>9</b> ′12/19	11:33	4	X				)	<			>	(X		T				x	X									N	Y				
MW-16	2071035	00/12/19	9:10	4	х				)	<			)	(X		T	Π			x	х									N	Y				
MW-17	207636	09/12/19	9:31	4	X				;	<			>	$\langle x \rangle$						x	х									N	Y				1
MW-18	207637	00/12/19	9:53	4	Х				;	<			>	(X	(					x	Х									N	Y				
MW-DW1	207638	00/12/19	12:23	4	Х				)	<			>	$\langle x \rangle$						X	X									N	Y				
DUP-1	207639	00/12/19		3	Х				)	<			>	$\langle x \rangle$								Х								N	Y				
TEMPERATU	RE BLANK																		Х				х							N	Y				
		and the second	1								Π			T																					
Comments/Spe	cial Instructions:										1 1			1	1		Laboratory Comments: Temperature Upon Receipt: 2.4 Sample Containers Intact? N																		
Relinquished by:	he	Date 9/15	13	Tir Cog	me	Rece	ived I	/ed by: Date											Т	ime		QC I Leve	Deliv 1 2 1 3	<u>aliverables (please circle one)</u> 2 3											
Relinquished by:		Daté Time Received by: 10									7	ate	3 Site Specific - if yes, please pre-schedule w/ SUTHERLAN Project Manager or attach specific instructions									LANE	D												

Phone: 205 581 9500

Fax: 205 581 9504

2515 5th Avenue South

Birmingham, AL 35233

SUTHERLAND ENVIRONMENTAL

COMPANY, INC.


HISTORICAL DISSOLVED COC ANALYTICAL SUMMARY HIGHWAY 22 QUICK STOP (UST18-11-01)											
MONITOR	DATE	BENZENE (ma/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	TOTAL XYLENES (mg/L)	MTBE (mg/L)	NAPH- THALENE (ma/L)				
MW-1	8/23/2018	0.161	0.008	0.008	0.090	0.172	0.015				
	1/10/2019	0.460	0.049	0.012	0.190	0.380	0.053				
	6/12/2019	0.600	0.039	0.083	0.429	0.035	0.010				
	9/12/2019	0.126	0.005	0.009	0.052	0.028	0.003				
SSTLs GRP		0.392	78.300	54.800	175.000	1.570	1.570				
MW-2	8/23/2018	7.120	26.200	2.980	16.800	25.600	0.626				
	DUP-1	7.240	27.600	3.010	17.500	24.700	0.753				
	1/10/2019	12.100	47.200	5.800	33.300	17.100	0.614				
	6/12/2019	12.300	43.800	6.760	37.800	17.500	0.532				
	9/12/2019	8.120	25.400	3.690	20.800	14.800	0.814				
SSTLs GRP		0.392	78.300	54.800	175.000	1.570	1.570				
MW-3*	8/23/2018	6.000	36.700	3.860	21.700	0.436	0.703				
	1/10/2019	12.200	63.600	7.840	40.800	1.350	0.508				
	6/12/2019	14.500	66.800	9,300	48,900	1.960	0.537				
	9/12/2019	6.220	37,200	4,900	25,400	0.070	0.862				
SSTLs GRP	0/12/2010	0.392	78,300	54,800	175,000	1.570	1.570				
MW-4	8/23/2018	0.018	0.092	0.173	0.971	< 0.001	0.040				
	1/10/2019	0.213	0.150	0.732	2,300	0.005	0.238				
	6/12/2019	0.181	0.100	0.473	1.290	0.004	0.193				
	9/12/2019	0.027	0.031	0.072	0.441	< 0.001	0.067				
SSTLs GRP		0.392	78.300	54.800	175.000	1.570	1.570				
MW-5	1/10/2019	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001				
	6/12/2019	<0.001	< 0.001	< 0.001	0.003	< 0.001	< 0.001				
	9/12/2019	<0.001	0.001	< 0.001	0.003	< 0.001	< 0.001				
SSTLs GRP		0.197	39,500	27.600	175.000	0.789	0.789				
MW-6	1/10/2019	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	< 0.001				
	6/12/2019	< 0.001	0.001	< 0.001	0.005	< 0.001	< 0.001				
SSTLs GRP		0.193	38.700	27.100	175.000	0.774	0.774				
MW-7	1/10/2019	< 0.001	< 0.001	< 0.001	< 0.003	< 0.001	0.002				
	6/12/2019	< 0.001	0.009	0.007	0.041	< 0.001	0.031				
	9/12/2019	< 0.001	< 0.001	< 0.001	0.003	< 0.001	0.003				
SSTLs GRP		0.298	59.600	41.700	175.000	1.190	1.190				
MW-8	1/10/2019	< 0.001	< 0.001	< 0.001	< 0.003	0.009	< 0.001				
	DUP-1	<0.001	<0.001	<0.001	< 0.003	0.010	<0.005				
	6/12/2019	0.007	0.004	0.020	0.016	< 0.001	0.034				
	9/12/2019	0.002	< 0.001	< 0.001	0.003	<0.001	< 0.001				
	DUP-1	0.001	<0.001	<0.001	0.003	<0.001	<0.005				
SSTLs GRP		0.392	78.300	54.800	175.000	1.570	1.570				
MW-9	1/10/2019	2.460	13.400	6.700	36.100	0.051	0.567				
	6/12/2019	2.010	12.000	7.240	35.200	0.064	0.671				
	9/12/2019	2.720	29.400	14.700	60.400	0.015	2.260				
SSTLs GRP		0.390	78.000	54.600	175.000	1.560	1.560				
MW-10	1/10/2019		Not sam	oled – 0.07 fe	et of free p	roduct					
	6/12/2019		Not same	oled - 2.08 fe	et of free p	roduct					
	9/12/2019		Not same	oled – 1.68 fe	et of free p	roduct					
SSTLs GRP		0.390	78.000	54.600	175.000	1.560	1.560				
MW-11	1/10/2019	0.184	0.131	0.023	0.195	0.318	0.018				
	6/12/2019	0.464	0.084	0.061	0.473	0.044	0.011				
	DUP-1	0.467	0.099	0.058	0.462	0.041	0.015				
	9/12/2019	0.046	0.088	0.016	0.093	0.017	0.005				
SSTLs GRP	0.12.2010	0.390	78.000	54.600	175.000	1.560	1.560				
MW-12	1/10/2019	0.009	0.052	0.009	0.051	<0.001	0.003				
	6/12/2019	<0.001	<0.001	<0.001	<0.003	< 0.001	<0.001				
	9/12/2019	0.001	< 0.001	<0.001	0.004	< 0.001	<0.001				
SSTLs GRP		0.380	76.000	53.200	175.000	1.520	1.520				

HISTORICAL DISSOLVED COC ANALYTICAL SUMMARY (Concluded) HIGHWAY 22 QUICK STOP (UST18-11-01)											
MONITOR WELL	DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	TOTAL XYLENES (mg/L)	MTBE (mg/L)	NAPH- THALENE (mg/L)				
MW-13	1/10/2019 6/12/2019 9/12/2019	8.960 13.700 7.360	36.300 57.200 40.600	4.890 8.940 7.260	27.800 46.600 36.800	6.270 16.700 4.080	0.416 0.435 0.916				
<u>SSTLs GRP</u> MW-14	6/12/2019 9/12/2019	0.392 0.002 0.018	78.300 0.015 0.005	54.800 0.002 0.005	175.000 0.013 0.010	1.570 <0.001 0.001	1.570 0.003 0.016				
SSTLs GRP MW-15	6/12/2019 9/12/2019	0.256 0.003 <b>3.630</b>	51.200 0.006 14.600	35.800 0.002 3.240	175.000 0.007 14.600	1.020 0.001 0.023	1.020 0.005 0.785				
SSTLs GRP MW-16	6/12/2019 9/12/2019	0.236 0.001 <0.001	47.200 0.004 <0.001	33.100 <0.001 <0.001	175.000 0.004 <0.003	0.945 0.004 0.007	0.945 0.003 <0.001				
SSTLs GRP MW-17	6/12/2019 9/12/2019	0.0947 0.001 0.001	18.900 0.011 0.003	13.300 0.070 <0.001	175.000 0.322 0.012	0.379 0.008 0.003	0.379 0.011 0.004				
SSTLs GRP MW-18	6/12/2019 9/12/2019	0.172 1.200 3.740	34.400 2.480 0.990	24.100 0.436 1.370	175.000 2.260 5.130	0.688 0.654 1.570	0.688 0.141 0.474				
SSTLs GRP MW-DW1	1/10/2019 6/12/2019 9/12/2019	0.156 0.006 <0.001 0.001	31.300 0.055 <0.001 0.005	21.900 0.015 <0.001 <0.001	175.000 0.075 <0.003 0.005	0.625 <0.001 <0.001 <0.001	0.625 0.001 <0.001 <0.001				
SSTLs GRP		0.392	78.300	54.800	175.000	1.570	1.570				

Note:

mg/L – milligrams per liter SSTLs GRP – Site Specific Target Levels protective of the Groundwater Resource Protection area Concentrations highlighted in **bold** type exceed applicable SSTLs.

* - source well