

LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

State Road 16 Parcel
1974 State Road 16
St. Augustine, St. Johns County, Florida
UES Project No. 0940.2400115.0000
UES Report No. 2093292

Report Date: June 27, 2024

Prepared for:

Wiles, LLC
520 Dunlawton Avenue
Port Orange, Florida 32127
Attention: Mr. Jack Wiles, Representing Agent

Prepared by:

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Environmental
Geotechnical Engineering
Geophysical Technology
Materials Testing
Field Inspections & Code Compliance

June 27, 2024

Mr. Jack Wiles
Representing Agent
Wiles, LLC
520 Dunlawton Avenue
Port Orange, Florida 32127

Reference: **LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT**
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St. Augustine, St. Johns County, Florida
UES Project No. 0940.2400115.0000
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Dear Mr. Wiles:

On behalf of Wiles, LLC (the "Client"), UES has completed this Limited Phase II ESA for the above-referenced property (the "subject property"). The purpose of this investigation was to assess the on-site RECs and VIC identified in the Phase I ESA report, dated May 29, 2024, conducted by UES.

Based on the results of the analytical data obtained from the Limited Phase II ESA, concentrations of the tested parameters for soil samples were below the applicable soil cleanup target levels as established in Chapter 62-777, F.A.C. Based on the above-referenced findings, we conclude that the RECs and VIC identified in UES's Phase I ESA, have been assessed and that no further assessment of the subject property appears warranted at this time.

UES appreciates this opportunity to provide environmental services to you and we look forward to future endeavors. If you have any comments or questions regarding the information contained within this report or if we can be of further service, please contact the undersigned.

Respectfully submitted,
UES

Written by:

A blue ink signature of Thomas M. Borchert, consisting of a stylized 'T' and 'B' followed by a horizontal line.

Thomas M. Borchert, L.E.P.
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Reviewed by:

A blue ink signature of James E. Adams, featuring a stylized 'J' and 'A' with a large loop at the end.

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GLOSSARY OF ENVIRONMENTAL ACRONYMS

µg/L – Micrograms per Liter
AAI – All Appropriate Inquiry
AOC – Area of Concern
BaP – Benzo(a)pyrene
BLS – Below Land Surface
BTEX/MTBE – Benzene, Toluene, Ethylbenzene, Total Xylenes/Methyl Tert-Butyl Ether
COC – Chemicals of Concern
COJ-EQD – City of Jacksonville Environmental Quality Division
DEP-SOP-001/01 – FDEP's Standard Operating Procedures for Field Activities
ESA – Environmental Site Assessment
Eurofins – Eurofins Environmental Testing America/Air Toxic
F.A.C. – Florida Administrative Code
FDEP – Florida Department of Environmental Protection
FLPRO – Florida Petroleum Range Organics
GCTL – Groundwater Cleanup Target Level
MDL – Method Detection Limit
mg/Kg – Milligrams per Kilogram
NADC – Natural Attenuation Default Concentrations
NELAP – National Environmental Laboratory Accreditation Program
NGVD – National Geodetic Vertical Datum
OVM – Organic Vapor Monitor
PAHs – Polycyclic Aromatic Hydrocarbons
PCB – Polychlorinated Biphenyl
PID – Photo-Ionization Detector
PQL – Practical Quantitation Limit
PVC – Polyvinyl Chloride
QA/QC – Quality Assurance/Quality Control
RCRA – Resource Conservation and Recovery Act
REC – Recognized Environmental Condition
SCTL – Soil Cleanup Target Level
SIM – Selected Ion Monitoring
SPLP – Synthetic Precipitation Leaching Procedure
SVA – Soil Vapor Assessment
SVOCs – Semi Volatile Organic Compounds
TCLP – Toxicity Characteristic Leaching Procedure
TPQL – Target Practical Quantitation Level
TPHCWG – Total Petroleum Hydrocarbon Criteria Working Group
TransAmerican – TransAmerican Drilling & Testing, Inc.
TRPH – Total Recoverable Petroleum Hydrocarbons
UES – Universal Engineering Sciences
USGS – United States Geological Survey
UST – Underground Storage Tank
VEC – Vapor Encroachment Condition
VES – Vapor Encroachment Screening
VIC – Vapor Intrusion Condition
VISL – Vapor Intrusion Screening Level
VOCs – Volatile Organic Compounds

1.0 INTRODUCTION

UES was retained by Wiles, LLC (the “Client”) to conduct a Limited Phase II Environmental Site Assessment (ESA) at State Road 16 Parcel (the “subject property”), located at 1974 State Road 16 in St. Augustine, St. Johns County, Florida. The subject property being assessed for this Limited Phase II ESA consists of a single tax parcel of land (St. Johns County Parcel ID No. 0875700000) located in Section 8, Township 7 South, Range 29 East as referenced on the USGS Topographic Quadrangle Map “Bakersville, Florida” (USGS Site Location Map) provided as **Figure 1**. At the time of the assessment, the subject property was occupied by an automotive sales and service facility.

The purpose of this investigation was to assess the on-site RECs and VIC identified in the Phase I ESA report, dated May 29, 2024, conducted by UES. Based on the findings and opinions of the Phase I ESA, UES identified the following REC and VIC in connection with the subject property:

- According to the property owner, a septic tank system is located north of the commercial buildings. Based on the historic use of the subject property which included the storage and use of hazardous substances and petroleum products, potential discharges to the septic system appear likely. Septic tanks can provide a pathway for contaminants to enter and impact shallow soil and groundwater. As such, the septic system is considered a REC at this time.
- The review of historical resources revealed that the subject property has been utilized as an autobody repair facility since at least 1995. In addition, UES observed oil-stained soil and poor housekeeping practices during the site reconnaissance. As such, UES regards the use of the subject property as an autobody repair facility as a REC and VIC.

2.0 LIMITING CONDITIONS AND RELIANCE

2.1 Limitations and Exceptions

The findings of this report represent our professional judgment; UES offers or extends no warranty, expressed or implied. These findings are current with the dates of our site work and the information cited herein. The conclusions presented are based on the data provided, observations, and conditions that existed on the date of the on-site activities. This report should not be relied upon to represent property conditions on other dates or at locations other than those specifically cited within the report. UES can accept no responsibility for interpretations of these data made by other parties.

No ESA can eliminate all uncertainty. Furthermore, any sample, either surface or subsurface, taken for chemical analysis may or may not be representative of a larger population. Professional judgment and interpretation are inherent in the process and uncertainty is inevitable. Additional assessment may be able to reduce uncertainty.

Even when a Phase II ESA is performed with an appropriate site-specific standard of care, certain conditions present especially difficult detection problems. Such conditions may include, but are not limited to, complex geological settings, the fate and transport characteristics of certain hazardous

substances and petroleum products, the distribution of existing contamination, physical limitation imposed by the location of utilities and other man-made objects, and the limitation of assessment technologies. Phase II ESAs do not generally require an exhaustive assessment of environmental conditions on a property. If hazardous substances or petroleum products are confirmed on a parcel of property, the extent of further assessment is related to the degree of uncertainty that is acceptable to the user with respect to the real estate transaction.

In expressing the opinions stated in this report, UES has exercised the degree of skill and care ordinarily exercised by a reputable and competent environmental professional in the same area and time frame given the same facts and circumstances. Documentation and data provided by the Client or other interested parties, or from the public domain, and referred to in the preparation of this assessment, have been used and referenced with the understanding that UES assumes no responsibility or liability for their accuracy. The information contained in this report, including its conclusions, is based on the information that was made available to UES during the assessment and upon the services described that were performed. Because the report is based on available information, some of its conclusions could be different if the information upon which it is based is determined to be false, inaccurate, or contradicted by additional information.

2.2 User Reliance

This report is intended for the sole use of Wiles, LLC. Its contents may not be relied upon by other parties for any purpose without the express written consent of UES. UES is not responsible for conclusions drawn by others upon review of the enclosed report. This is not a statement of the suitability of the property for any use or purpose. This assessment was conducted in accordance with the UES General Conditions, which are incorporated into the Client authorized agreement that governs this assessment (UES Proposal No.2091461, dated May 29, 2024).

3.0 SOIL QUALITY ASSESSMENT

3.1 Soil Sampling and Collection Methodology

On June 6, 2024, UES advanced three soil borings designated as SB-1 through SB-3, utilizing a stainless-steel hand auger. The soil sampling equipment was properly decontaminated before the initiation of each soil boring.

Discrete soil samples were collected at one-foot intervals from each soil boring from the existing grade to the termination of the soil boring (here feet bls). UES screened for visual/olfactory impacts and organic vapors using a MiniRAE 3000® PID Portable OVM. This instrument monitors VOCs using a PID and is used to screen for volatile organic vapors to a lower limit of one-tenth of one part per million (1/10 ppm) calibration gas equivalent. Before screening the soil samples, UES checked the device to ensure proper functioning and performed calibration protocols using isobutylene gas. The device was operated in hygiene/survey mode with a 10.6 eV lamp during the assessment. In Hygiene Mode, the unit continuously displays real-time VOC measurements in ppm. In Survey Mode, the instrument collects individual point data VOC measurements in ppm. Each soil sample collected was placed in a 16-ounce jar, filling it approximately half full. The jars were then covered with aluminum foil and the head space within the jar

was allowed to equilibrate. The soil samples were then measured by inserting the tip of the OVM through the foil to collect the soil vapor hydrocarbon measurement.

Discrete grab soil samples were collected from each soil boring at the depth interval corresponding to the highest OVM reading/at the soil water table interface due to the lack of detected elevated OVM measurements (as described in the table below). The soil samples were placed into laboratory-supplied sample containers, placed in a cooler with wet ice, and transported under proper chain-of-custody documentation to Eurofins, a NELAP-certified laboratory, for chemical analysis by the USEPA Methods noted in the following table:

Soil Sample Details and Laboratory Analysis

Soil Sample ID	Environmental Concern	Soil Sample Depth (feet bls)	PID Reading (ppm)	Laboratory Analysis
SB-1	Septic drainfield and washout area	1.0	5.0	BTEX/MTBE, PAHs, and TRPH
SB-3	Stained soil adjacent to the automotive garage	3.0	399	BTEX/MTBE, PAHs, and TRPH

Table Notes:

BTEX/MTBE by 8260

PAHs by 8270 SIM

TRPH by FLPRO

Soil cuttings generated during the installation of the soil borings were returned to their respective boreholes and generally restored to original site conditions. Sampling was performed in general accordance with DEP-SOP-001/01. The soil boring locations are illustrated on the Site Map/Sample Location Plan in **Figure 2**. A summary of the OVM measurement data is presented on the Soil Boring Logs in **Appendix A**.

3.2 Site Lithology

The lithologic sequences beneath the subject property were evaluated as part of this assessment. The classifications and descriptions indicated are based on visual and manual characterizations of the recovered soil samples. The general soil profile consists of topsoil and grass (SB-1 and SB-2) or 57 stone (SB-3) ranging in depth from land surface to approximately three inches bls. Brown fine sand continued to a depth of approximately three feet bls. A petroleum odor was noted in soil boring SB-3 from a depth of one to four feet bls. Saturated conditions were encountered at a depth of approximately four feet bls in the soil borings.

4.0 GROUNDWATER QUALITY ASSESSMENT

Groundwater conditions were not explored, as this was outside the scope of this assessment.

5.0 ADDITIONAL SERVICES

No other services were performed as part of this Limited Phase II ESA.

6.0 QUALITY ASSURANCE/QUALITY CONTROL

This section summarizes the QA/QC procedures followed during this assessment. Laboratory sample analytical reports are presented in **Appendix B**. A NELAP-accredited laboratory, Eurofins, performed the soil sample analyses. The analytical data provided by the laboratory were reviewed for laboratory precision, accuracy, and completeness. The soil sample laboratory data provided by Eurofins was deemed acceptable based on the following information:

- Samples were received on ice and the cooler temperature was within the acceptable temperature range of 0 – 6° Celsius.
- Samples were prepared and analyzed within hold time.
- Laboratory control samples (surrogate, blanks, blank spikes, and blank spike duplicates) recoveries were within control limits.

Based on these results, the samples collected at the site on June 6, 2024 are an accurate representation of site soil quality conditions.

7.0 FINDINGS

7.1 Soil Assessment Results

A review of the soil laboratory analytical reports documented concentrations of the following compounds above the direct exposure SCTLs as defined in Chapter 62-777, F.A.C.:

- Soil sample SB-3 – TRPH was detected at a concentration of 490 mg/kg, exceeding its residential SCTL of 460 mg/kg and its leachability SCTL of 340 mg/kg.

Further laboratory analysis appeared warranted since the FLPRO method targets the detection of aromatic hydrocarbons in a carbon chain range of C₈-C₄₀. The C₈-C₄₀ range of carbon chain can be sub-classified, with each class possessing its own calculated SCTL. Given the potential for the sub-classification methodology to yield relatively high SCTLs, it is possible to demonstrate that a detected concentration of TRPH meets the cleanup target level, even though it exceeds that level set by Chapter 62-777, FAC. Since TRPH is the only contaminant of concern detected above the SCTL, the laboratory was instructed to “speciate” the TRPH analysis for SB-3 by the TPHCWG method. The reported concentrations were compared to the calculated SCTL for the TRPH fraction (Chapter 62-777, F.A.C.). According to the speciation analysis, all of the detected concentrations were below their respective SCTLs.

Site concentrations for specific PAHs were converted to BaP equivalents before comparison with the applicable SCTLs utilizing the Benzo(a)pyrene Conversion Table. Each of these concentrations was converted to BaP equivalents, which calculates the equivalent concentrations, then adds them up and compares the total to the applicable BaP direct exposure SCTL. The calculated equivalent concentration (the sum of the product of selective PAH concentrations and their respective Toxic Equivalency Factor) in the soil samples collected from soil borings SB-1 and SB-3 were calculated at concentrations below the established direct exposure residential SCTL of 0.1 mg/kg.

The remainder of the tested constituents were documented below their respective direct exposure residential and commercial/industrial SCTLs as defined in Chapter 62-777, F.A.C. and/or the laboratory MDLs.

The soil analytical data is expressed in tabular format in **Table 1**. The results for the TRPH speciation are also summarized in **Table 1**. The soil laboratory analytical report and associated chain-of-custody documentation are presented in **Appendix B**. Copies of the Benzo(a)pyrene Conversion Tables are presented in **Appendix C**.

8.0 CONCLUSIONS & RECOMMENDATIONS

8.1 Conclusions

A Limited Phase II ESA was performed at the State Road 16 Parcel, located at 1974 State Road 16 in St. Augustine, St. Johns County, Florida. The purpose of this Limited Phase II ESA was to conduct a limited subsurface evaluation for evidence of potential subsurface impacts at the subject property from RECs and VIC, as identified in the Phase I ESA performed by UES, dated May 29, 2024.

Based on the soil analytical data collected during this Limited Phase II ESA, contaminated soil is not present in the unsaturated zone, as demonstrated by the analyses of soil samples collected from the representative sampling locations.

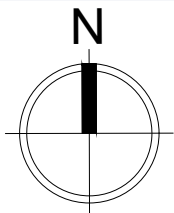
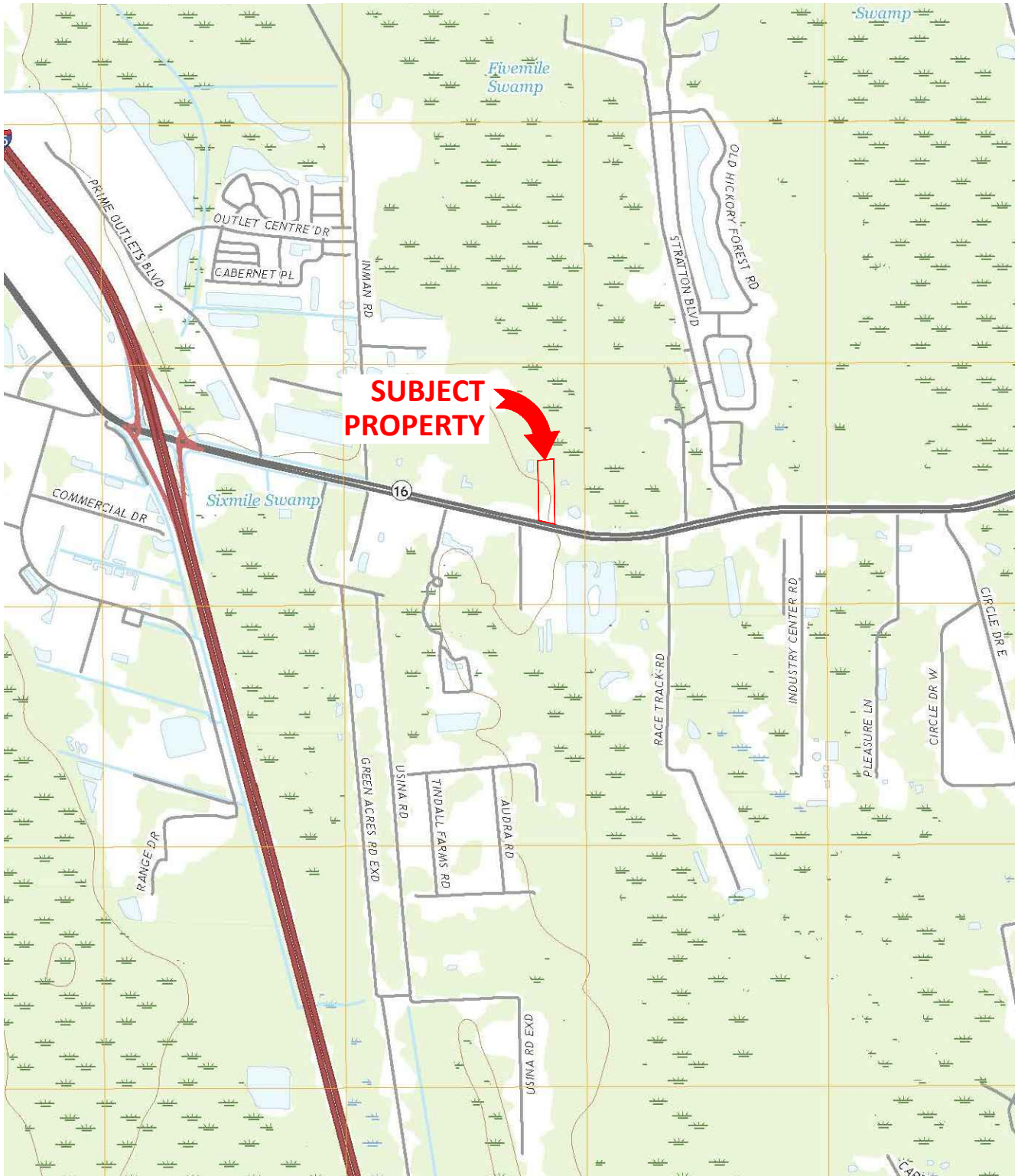
8.2 Recommendations

Based on the results of this Limited Phase II ESA report, additional assessment does not appear warranted at this time.

FIGURES



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SOURCE:
USGS: BAKERSVILLE
DATED: 2021

PHASE II ESA
STATE ROAD 16 PARCEL
1974 STATE ROAD 16
ST. AUGUSTINE, ST. JOHNS COUNTY, FLORIDA

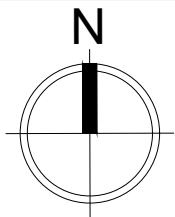
USGS SITE LOCATION MAP

DRAWN BY:	T. WEBB	DATE:	6/13/24	CHECKED BY:	T. BORCHERT	DATE:	6/13/24
SCALE:	1:24,000	PROJECT NO.	0940.2400115.0000	REPORT NO.	2093292	FIGURE NO.	1



LEGEND

● SOIL SAMPLE LOCATION



SOURCE:
ST. JOHNS COUNTY PROPERTY APPRAISERS
DATED: 2024

PHASE II ESA
STATE ROAD 16 PARCEL
1974 STATE ROAD 16
ST. AUGUSTINE, ST. JOHNS COUNTY, FLORIDA

SAMPLE LOCATION MAP

DRAWN BY: T. WEBB	DATE: 6/13/24	CHECKED BY: T. BORCHERT	DATE: 6/13/24
SCALE: 1" = 160'	PROJECT NO. 0940.2400115.0000	REPORT NO. 2093292	FIGURE NO. 2

TABLES



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Table 1: Summary of Soil Analytes
 Undeveloped State Road 16 Assessment
 1974 State Road 16
 St. Augustine, St. Johns County, Florida 32084

Analyte		Residential SCTL	Commercial/ Industrial SCTL	Leachability SCTL	Sample Identification and Collection Date	
					SB-1 6/6/2024	SB-3 6/6/2024
Benzene		1.2	1.7	0.007	0.00064 U	0.032 U
Ethylbenzene		1500	9200	0.6	0.00074 U	0.037 U
Methyl tert-butyl ether		4400	24000	0.09	0.00080 U	0.040 U
Toluene		7500	60000	0.5	0.0038 U	0.19 U
Xylenes, Total		130	700	0.2	0.0014 U	±0.21 I
1-Methylnaphthalene		200	1800	3.1	0.00096 U	0.013
2-Methylnaphthalene		210	2100	8.5	0.0013 U	0.021
Acenaphthene		2400	20000	2.1	0.00081 U	0.0057
Acenaphthylene		1800	20000	27	0.0016 U	0.0015 I
Anthracene		21000	300000	2500	0.0014 U	0.0029 I
Benzo[a]anthracene		#	#	0.8	0.0078 U	0.0071 U
Benzo[a]pyrene		0.1	0.7	8	0.0016 U	0.0051
Benzo[a]pyrene Equivalents		0.1	0.7	8	0.00326	0.0076
Benzo[b]fluoranthene		#	#	2.4	0.0050 I	0.0050 I
Benzo[g,h,i]perylene		2500	52000	32000	0.0048	0.0025 U
Benzo[k]fluoranthene		#	#	24	0.0021 U	0.0021 I
Chrysene		#	#	77	0.0097 U	0.0088 U
Dibenz(a,h)anthracene		#	#	0.7	0.0028 U	0.0026 U
Fluoranthene		3200	59000	1200	0.0031 I	0.0052
Fluorene		2600	33000	160	0.00086 U	0.0062
Indeno[1,2,3-cd]pyrene		#	#	6.6	0.0029 U	0.0031 I
Naphthalene		55	300	1.2	0.0011 U	0.0093
Phenanthrene		2200	36000	250	0.0012 I	0.0048
Pyrene		2400	45000	880	0.0051 U	0.0093 I
TRPH		460	2700	340	78	490
TRPH Speciation Results	Over C10-C12 aliphatics	1700	10000	51000		28 U
	Over C10-C12 aromatics	900	5900	520		28 U
	Over C12-C16 aliphatics	2900	21000			28 U
	Over C12-C16 aromatics	1500	12000	1000		28 U
	Over C16-C21 aromatics	1300	11000	3200		28 U
	Over C16-C35 aliphatics	42000	280000			450
	Over C21-C35 aromatics	2300	40000	25000		28 U
	Over C5-C6 aliphatics	6200	33000	470		28 U
	Over C5-C7 aromatics	340	1800	34		23 U
	Over C6-C8 aliphatics	8700	46000	1300		28 U
	Over C7-C8 aromatics	490	3700	59		28 U
	Over C8-C10 aliphatics	850	4800	7000		28 U
	Over C8-C10 aromatics	460	2700	340		28 U

Table Notes and Definitions

Results are reported in milligrams per kilogram (mg/Kg)

SCTL - Soil Cleanup Target Levels, Table II, Chapter 62-777, F.A.C.

Blank Cell - Analysis not requested for this analyte or No Cleanup Target Level

Results exceed the Direct Exposure Residential SCTL

Results exceed the Direct Exposure Commercial/Industrial SCTL

Results exceed Leachability based on Groundwater Criteria

Results exceeding an established SCTL are expressed in **Boldface Type**

* Contaminant is not a health concern for this exposure scenario.

** Direct exposure value based on acute toxicity considerations. This criterion is applicable in scenarios where children might be exposed to soils (e.g. residences, schools, playgrounds)

*** Leachability values may be derived using the SPLP Test to

= Site concentrations for carcinogenic polycyclic aromatic hydrocarbons must be converted to Benzo(a)pyrene equivalents before comparison with the appropriate direct exposure SCTL for Benzo(a)pyrene, using the approach described in the February 2005 'Final Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C.'

‡This value rounded down to one significant number per FDEP's "Rounding Analytica, Data for Site Rehabilitation Completion," dated November 17, 2011

Laboratory Qualifiers

U - Indicates the compound was analyzed for but not detected above the method detection limit

I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

J - The value is outside laboratory established criteria

V - Indicates the analyte was detected in both the sample and method blank

APPENDIX A



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BORING LOG

Boring/Well Number: SB-1		Permit Number: N/A		FDEP Facility Identification Number: N/A		
Site Name: State Road 16 Phase II ESA		Borehole Start Date:	6/6/24	Borehole Start Time:	1300	☐ A.M. ☒ P.M.
		End Date:	6/6/24	End Time:	1335	☐ A.M. ☒ P.M.
Environmental Contractor: UES		Geologist's Name: T. Borchert		Environmental Technician's Name: Click or tap here to enter text.		
Drilling Company: UES		Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3.25		Borehole Depth (feet): 3	
Drilling Methods: Hand Auger		Apparent Borehole (DTW) (in feet from soil moisture): N/A	Measured Well DTW (in feet after water rechargers in well): N/A		OVA (list model and type): MiniRAE 3000 / PID	
Disposition of Drill Cuttings (check method): ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other Describe if other method or multiple items are checked:						
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other Describe if other methods or multiple items are checked:						
Sample Type	PID Reading (PPM)	Depth (feet)	Sample Description	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or screen interval)
HA	0	0.5	Grass		D	
↓	0	1	Brown fine sand		D	
↓	0	2			D	
↓	0	3	↓		M	
		4				
		5				
		6				
		7				
		8				
		9				
		10				
		11				
		12				
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		23				
		24				
		25				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
Moisture Content Cods: D = Dry; M = Moist; W = Wet; S = Saturated



BORING LOG

Boring/Well Number: SB-2		Permit Number: N/A		FDEP Facility Identification Number: N/A		
Site Name: State Road 16 Phase II ESA		Borehole Start Date:	6/6/24	Borehole Start Time:	1337 ☐ A.M. ☒ P.M.	
		End Date:	6/6/24	End Time:	1345 ☐ A.M. ☒ P.M.	
Environmental Contractor: UES		Geologist's Name: T. Borchert		Environmental Technician's Name: Click or tap here to enter text.		
Drilling Company: UES	Pavement Thickness (inches): N/A		Borehole Diameter (inches): 3.25		Borehole Depth (feet): 3	
Drilling Methods: Hand Auger	Apparent Borehole (DTW) (in feet from soil moisture): N/A		Measured Well DTW (in feet after water rechargers in well): N/A		OVA (list model and type): MiniRAE 3000 / PID	
Disposition of Drill Cuttings (check method): ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other Describe if other method or multiple items are checked:						
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other Describe if other methods or multiple items are checked:						
Sample Type	PID Reading (PPM)	Depth (feet)	Sample Description	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or screen interval)
HA	0	0.5	Brown fine sand		D	
↓	0	1	↓		D	
	0	2			D	
	0	3			M	
		4				
		5				
		6				
		7				
		8				
		9				
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		12				
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		19				
		20				
		21				
		22				
		23				
		24				
		25				

Sample Type Codes: **PH** = Post Hole; **HA** = Hand Auger; **SS** = Split Spoon; **ST** = Shelby Tube; **DP** = Direct Push; **SC** = Sonic Core; **DC** = Drill Cuttings
Moisture Content Cods: **D** = Dry; **M** = Moist; **W** = Wet; **S** = Saturated



BORING LOG

Boring/Well Number: SB-3		Permit Number: N/A		FDEP Facility Identification Number: N/A		
Site Name: State Road 16 Phase II ESA		Borehole Start Date:	6/6/24	Borehole Start Time:	1348 ☐ A.M. ☒ P.M.	
		End Date:	6/6/24	End Time:	1350 ☐ A.M. ☒ P.M.	
Environmental Contractor: UES		Geologist's Name: T. Borchert		Environmental Technician's Name: Click or tap here to enter text.		
Drilling Company: UES	Pavement Thickness (inches): N/A	Borehole Diameter (inches): 3.25		Borehole Depth (feet): 4		
Drilling Methods: Hand Auger	Apparent Borehole (DTW) (in feet from soil moisture): 4	Measured Well DTW (in feet after water rechargers in well): N/A		OVA (list model and type): MiniRAE 3000 / PID		
Disposition of Drill Cuttings (check method): ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other Describe if other method or multiple items are checked:						
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other Describe if other methods or multiple items are checked:						
Sample Type	PID Reading (PPM)	Depth (feet)	Sample Description	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or screen interval)
HA	N/A	0.5	57 Stone		D	
↓	262	1	DK brown fine sand, petro ↓		D	
	399	2			D	Sample @ 1350
	27	3			W	
	N/A	4			S	
		5				
		6				
		7				
		8				
		9				
		10				
		11				
		12				
		13				
		14				
		15				
		16				
		17				
		18				
		19				
		20				
		21				
		22				
		23				
		24				
		25				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
Moisture Content Cods: D = Dry; M = Moist; W = Wet; S = Saturated

APPENDIX B



Grounded in Excellence

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Thomas M. Borchert
Universal Engineering Sciences Inc
5561 Florida Mining Boulevard, South
Jacksonville, Florida 32257

Generated 6/25/2024 3:07:23 PM Revision 1

JOB DESCRIPTION

1974 SR 16

JOB NUMBER

670-41208-1

Eurofins Orlando

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Southeast, LLC Project Manager.

Authorization



Authorized for release by
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Revision 1

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Definitions/Glossary

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Universal Engineering Sciences Inc
Project: 1974 SR 16

Job ID: 670-41208-1

Job ID: 670-41208-1

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Job Narrative 670-41208-1

Revision

The report being provided is a revision of the original report sent on 6/17/2024. The report (revision 1) is being revised due to: Per client, TRPH speciation required for SB3.

Receipt

The samples were received on 6/7/2024 7:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.9° C.

GC/MS VOA

Method 8260D: The following sample was diluted due to the nature of the sample matrix: SB-3 (670-41208-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270E SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 670-95277 and analytical batch 670-95560 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Client Sample ID: SB-1

Lab Sample ID: 670-41208-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	0.0050	I	0.012	0.0049	mg/Kg	1	✱	8270E SIM	Total/NA
Benzo[g,h,i]perylene	0.0048		0.0041	0.0028	mg/Kg	1	✱	8270E SIM	Total/NA
Fluoranthene	0.0031	I	0.0041	0.0021	mg/Kg	1	✱	8270E SIM	Total/NA
Phenanthrene	0.0012	I	0.0041	0.0010	mg/Kg	1	✱	8270E SIM	Total/NA
Total Petroleum Hydrocarbons (C8-C40)	78		52	26	mg/Kg	1	✱	FL-PRO	Total/NA

Client Sample ID: SB-3

Lab Sample ID: 670-41208-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total - DL	0.21	I	1.3	0.070	mg/Kg	50	✱	8260D	Total/NA
m-Xylene & p-Xylene - DL	0.098	I	1.3	0.070	mg/Kg	50	✱	8260D	Total/NA
o-Xylene - DL	0.11	I	1.3	0.036	mg/Kg	50	✱	8260D	Total/NA
1-Methylnaphthalene	0.013		0.0038	0.00087	mg/Kg	1	✱	8270E SIM	Total/NA
2-Methylnaphthalene	0.021		0.0038	0.0012	mg/Kg	1	✱	8270E SIM	Total/NA
Acenaphthene	0.0057		0.0038	0.00073	mg/Kg	1	✱	8270E SIM	Total/NA
Acenaphthylene	0.0015	I	0.0038	0.0014	mg/Kg	1	✱	8270E SIM	Total/NA
Anthracene	0.0029	I	0.0038	0.0013	mg/Kg	1	✱	8270E SIM	Total/NA
Benzo[a]pyrene	0.0051		0.0038	0.0014	mg/Kg	1	✱	8270E SIM	Total/NA
Benzo[b]fluoranthene	0.0050	I	0.011	0.0044	mg/Kg	1	✱	8270E SIM	Total/NA
Benzo[k]fluoranthene	0.0021	I	0.0038	0.0019	mg/Kg	1	✱	8270E SIM	Total/NA
Fluoranthene	0.0052		0.0038	0.0019	mg/Kg	1	✱	8270E SIM	Total/NA
Fluorene	0.0062		0.0038	0.00078	mg/Kg	1	✱	8270E SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.0031	I	0.0038	0.0026	mg/Kg	1	✱	8270E SIM	Total/NA
Naphthalene	0.0093		0.0038	0.00099	mg/Kg	1	✱	8270E SIM	Total/NA
Phenanthrene	0.0048		0.0038	0.00090	mg/Kg	1	✱	8270E SIM	Total/NA
Pyrene	0.0093	I	0.011	0.0046	mg/Kg	1	✱	8270E SIM	Total/NA
Total Petroleum Hydrocarbons (C8-C40)	490		47	23	mg/Kg	1	✱	FL-PRO	Total/NA
Over C16-C35 aliphatics	450		56	28	mg/Kg	1	✱	TPHCWG	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Client Sample ID: SB-1

Lab Sample ID: 670-41208-1

Date Collected: 06/06/24 13:35

Matrix: Solid

Date Received: 06/07/24 07:30

Percent Solids: 80.1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00064	U	0.015	0.00064	mg/Kg	☆	06/07/24 12:29	06/11/24 18:34	1
Ethylbenzene	0.00074	U	0.015	0.00074	mg/Kg	☆	06/07/24 12:29	06/11/24 18:34	1
Toluene	0.0038	U	0.015	0.0038	mg/Kg	☆	06/07/24 12:29	06/11/24 18:34	1
Xylenes, Total	0.0014	U	0.025	0.0014	mg/Kg	☆	06/07/24 12:29	06/11/24 18:34	1
m-Xylene & p-Xylene	0.0014	U	0.025	0.0014	mg/Kg	☆	06/07/24 12:29	06/11/24 18:34	1
o-Xylene	0.00071	U	0.025	0.00071	mg/Kg	☆	06/07/24 12:29	06/11/24 18:34	1
Methyl tert-butyl ether	0.00080	U	0.015	0.00080	mg/Kg	☆	06/07/24 12:29	06/11/24 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130	06/07/24 12:29	06/11/24 18:34	1
4-Bromofluorobenzene (Surr)	112		70 - 130	06/07/24 12:29	06/11/24 18:34	1
Dibromofluoromethane (Surr)	120		70 - 130	06/07/24 12:29	06/11/24 18:34	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.00096	U	0.0041	0.00096	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
2-Methylnaphthalene	0.0013	U	0.0041	0.0013	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Acenaphthene	0.00081	U	0.0041	0.00081	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Acenaphthylene	0.0016	U	0.0041	0.0016	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Anthracene	0.0014	U	0.0041	0.0014	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Benzo[a]anthracene	0.0078	U	0.012	0.0078	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Benzo[a]pyrene	0.0016	U	0.0041	0.0016	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Benzo[b]fluoranthene	0.0050	I	0.012	0.0049	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Benzo[g,h,i]perylene	0.0048		0.0041	0.0028	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Benzo[k]fluoranthene	0.0021	U	0.0041	0.0021	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Chrysene	0.0097	U	0.012	0.0097	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Dibenz(a,h)anthracene	0.0028	U	0.0041	0.0028	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Fluoranthene	0.0031	I	0.0041	0.0021	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Fluorene	0.00086	U	0.0041	0.00086	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Indeno[1,2,3-cd]pyrene	0.0029	U	0.0041	0.0029	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Naphthalene	0.0011	U	0.0041	0.0011	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Phenanthrene	0.0012	I	0.0041	0.0010	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1
Pyrene	0.0051	U	0.012	0.0051	mg/Kg	☆	06/12/24 06:15	06/13/24 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	64		27 - 148	06/12/24 06:15	06/13/24 18:07	1
Fluoranthene-d10 (Surr)	81		37 - 150	06/12/24 06:15	06/13/24 18:07	1

Method: FL-DEP FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	78		52	26	mg/Kg	☆	06/10/24 09:30	06/10/24 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	83		66 - 136	06/10/24 09:30	06/10/24 22:26	1
C35 (Surr)	85		36 - 132	06/10/24 09:30	06/10/24 22:26	1

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Client Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Client Sample ID: SB-3

Lab Sample ID: 670-41208-2

Date Collected: 06/06/24 13:50

Matrix: Solid

Date Received: 06/07/24 07:30

Percent Solids: 88.4

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.032	U	0.76	0.032	mg/Kg	☆	06/07/24 12:29	06/11/24 18:55	50
Ethylbenzene	0.037	U	0.76	0.037	mg/Kg	☆	06/07/24 12:29	06/11/24 18:55	50
Toluene	0.19	U	0.76	0.19	mg/Kg	☆	06/07/24 12:29	06/11/24 18:55	50
Xylenes, Total	0.21	I	1.3	0.070	mg/Kg	☆	06/07/24 12:29	06/11/24 18:55	50
m-Xylene & p-Xylene	0.098	I	1.3	0.070	mg/Kg	☆	06/07/24 12:29	06/11/24 18:55	50
o-Xylene	0.11	I	1.3	0.036	mg/Kg	☆	06/07/24 12:29	06/11/24 18:55	50
Methyl tert-butyl ether	0.040	U	0.76	0.040	mg/Kg	☆	06/07/24 12:29	06/11/24 18:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130	06/07/24 12:29	06/11/24 18:55	50
4-Bromofluorobenzene (Surr)	98		70 - 130	06/07/24 12:29	06/11/24 18:55	50
Dibromofluoromethane (Surr)	112		70 - 130	06/07/24 12:29	06/11/24 18:55	50

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.013		0.0038	0.00087	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
2-Methylnaphthalene	0.021		0.0038	0.0012	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Acenaphthene	0.0057		0.0038	0.00073	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Acenaphthylene	0.0015	I	0.0038	0.0014	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Anthracene	0.0029	I	0.0038	0.0013	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Benzo[a]anthracene	0.0071	U	0.011	0.0071	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Benzo[a]pyrene	0.0051		0.0038	0.0014	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Benzo[b]fluoranthene	0.0050	I	0.011	0.0044	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Benzo[g,h,i]perylene	0.0025	U	0.0038	0.0025	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Benzo[k]fluoranthene	0.0021	I	0.0038	0.0019	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Chrysene	0.0088	U	0.011	0.0088	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Dibenz(a,h)anthracene	0.0026	U	0.0038	0.0026	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Fluoranthene	0.0052		0.0038	0.0019	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Fluorene	0.0062		0.0038	0.00078	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Indeno[1,2,3-cd]pyrene	0.0031	I	0.0038	0.0026	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Naphthalene	0.0093		0.0038	0.00099	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Phenanthrene	0.0048		0.0038	0.00090	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1
Pyrene	0.0093	I	0.011	0.0046	mg/Kg	☆	06/12/24 06:15	06/13/24 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	45		27 - 148	06/12/24 06:15	06/13/24 18:30	1
Fluoranthene-d10 (Surr)	77		37 - 150	06/12/24 06:15	06/13/24 18:30	1

Method: FL-DEP FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	490		47	23	mg/Kg	☆	06/10/24 09:30	06/10/24 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-terphenyl (Surr)	94		66 - 136	06/10/24 09:30	06/10/24 22:44	1
C35 (Surr)	81		36 - 132	06/10/24 09:30	06/10/24 22:44	1

Method: TPH CWG TPHCWG - TPH Criteria Working Group (CWG) Fractionation

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Over C5-C6 aliphatics	28	U	56	28	mg/Kg	☆	06/19/24 11:31	06/21/24 14:12	1
Over C6-C8 aliphatics	28	U	56	28	mg/Kg	☆	06/19/24 11:31	06/21/24 14:12	1

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Client Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Client Sample ID: SB-3

Lab Sample ID: 670-41208-2

Date Collected: 06/06/24 13:50

Matrix: Solid

Date Received: 06/07/24 07:30

Percent Solids: 88.4

Method: TPH CWG TPHCWG - TPH Criteria Working Group (CWG) Fractionation (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Over C8-C10 aliphatics	28	U	56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 14:12	1
Over C10-C12 aliphatics	28	U	56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 14:12	1
Over C12-C16 aliphatics	28	U	56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 14:12	1
Over C16-C35 aliphatics	450		56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 14:12	1
Over C5-C7 aromatics	23	U	23	23	mg/Kg	✱	06/19/24 11:31	06/21/24 17:01	1
Over C7-C8 aromatics	28	U	39	28	mg/Kg	✱	06/19/24 11:31	06/21/24 17:01	1
Over C8-C10 aromatics	28	U	56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 17:01	1
Over C10-C12 aromatics	28	U	56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 17:01	1
Over C12-C16 aromatics	28	U	56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 17:01	1
Over C16-C21 aromatics	28	U	56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 17:01	1
Over C21-C35 aromatics	28	U	56	28	mg/Kg	✱	06/19/24 11:31	06/21/24 17:01	1

Surrogate Summary

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	BFB (70-130)	DBFM (70-130)
670-41208-1	SB-1	99	112	120
670-41208-2 - DL	SB-3	103	98	112
LCS 670-95058/4	Lab Control Sample	114	102	98
LCSD 670-95058/5	Lab Control Sample Dup	109	105	103
MB 670-95058/8	Method Blank	99	106	112

Surrogate Legend

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		2MN (27-148)	FLN10 (37-150)
670-41208-1	SB-1	64	81
670-41208-2	SB-3	45	77
LCS 670-95277/2-A	Lab Control Sample	41	91
MB 670-95277/1-A	Method Blank	37	87

Surrogate Legend

2MN = 2-methylnaphthalene-d10

FLN10 = Fluoranthene-d10 (Surr)

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		OTP (66-136)	C-35 (36-132)
670-41208-1	SB-1	83	85
670-41208-2	SB-3	94	81
LCS 670-94850/2-A	Lab Control Sample	117	65
MB 670-94850/1-A	Method Blank	88	51

Surrogate Legend

OTP = o- terphenyl (Surr)

C-35 = C35 (Surr)

QC Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 670-95058/8

Matrix: Solid

Analysis Batch: 95058

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00050	U	0.012	0.00050	mg/Kg			06/11/24 13:04	1
Ethylbenzene	0.00058	U	0.012	0.00058	mg/Kg			06/11/24 13:04	1
Toluene	0.0030	U	0.012	0.0030	mg/Kg			06/11/24 13:04	1
Xylenes, Total	0.0011	U	0.020	0.0011	mg/Kg			06/11/24 13:04	1
m-Xylene & p-Xylene	0.0011	U	0.020	0.0011	mg/Kg			06/11/24 13:04	1
o-Xylene	0.00056	U	0.020	0.00056	mg/Kg			06/11/24 13:04	1
Methyl tert-butyl ether	0.00063	U	0.012	0.00063	mg/Kg			06/11/24 13:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		06/11/24 13:04	1
4-Bromofluorobenzene (Surr)	106		70 - 130		06/11/24 13:04	1
Dibromofluoromethane (Surr)	112		70 - 130		06/11/24 13:04	1

Lab Sample ID: LCS 670-95058/4

Matrix: Solid

Analysis Batch: 95058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0497		mg/Kg		99	49 - 152
Ethylbenzene	0.0500	0.0495		mg/Kg		99	54 - 139
Toluene	0.0500	0.0487		mg/Kg		97	55 - 136
Xylenes, Total	0.100	0.0958		mg/Kg		96	50 - 150
m-Xylene & p-Xylene	0.0500	0.0472		mg/Kg		94	57 - 138
o-Xylene	0.0500	0.0486		mg/Kg		97	56 - 133
Methyl tert-butyl ether	0.0500	0.0535		mg/Kg		107	40 - 153

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	114		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130

Lab Sample ID: LCSD 670-95058/5

Matrix: Solid

Analysis Batch: 95058

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.0482		mg/Kg		96	49 - 152	3	19
Ethylbenzene	0.0500	0.0471		mg/Kg		94	54 - 139	5	33
Toluene	0.0500	0.0417		mg/Kg		83	55 - 136	16	21
Xylenes, Total	0.100	0.0889		mg/Kg		89	50 - 150	7	30
m-Xylene & p-Xylene	0.0500	0.0453		mg/Kg		91	57 - 138	4	31
o-Xylene	0.0500	0.0436		mg/Kg		87	56 - 133	11	29
Methyl tert-butyl ether	0.0500	0.0553		mg/Kg		111	40 - 153	3	42

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

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QC Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 670-95058/5

Matrix: Solid

Analysis Batch: 95058

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	103		70 - 130

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 670-95277/1-A

Matrix: Solid

Analysis Batch: 95560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95277

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.00077	U	0.0033	0.00077	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
2-Methylnaphthalene	0.0011	U	0.0033	0.0011	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Acenaphthene	0.00065	U	0.0033	0.00065	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Acenaphthylene	0.0013	U	0.0033	0.0013	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Anthracene	0.0012	U	0.0033	0.0012	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Benzo[a]anthracene	0.0062	U	0.010	0.0062	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Benzo[a]pyrene	0.0013	U	0.0033	0.0013	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Benzo[b]fluoranthene	0.0039	U	0.010	0.0039	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Benzo[g,h,i]perylene	0.0023	U	0.0033	0.0023	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Benzo[k]fluoranthene	0.0017	U	0.0033	0.0017	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Chrysene	0.0078	U	0.010	0.0078	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Dibenz(a,h)anthracene	0.0023	U	0.0033	0.0023	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Fluoranthene	0.0017	U	0.0033	0.0017	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Fluorene	0.00069	U	0.0033	0.00069	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Indeno[1,2,3-cd]pyrene	0.0023	U	0.0033	0.0023	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Naphthalene	0.00088	U	0.0033	0.00088	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Phenanthrene	0.00080	U	0.0033	0.00080	mg/Kg		06/12/24 06:15	06/13/24 11:47	1
Pyrene	0.0041	U	0.010	0.0041	mg/Kg		06/12/24 06:15	06/13/24 11:47	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-methylnaphthalene-d10	37		27 - 148	06/12/24 06:15	06/13/24 11:47	1
Fluoranthene-d10 (Surr)	87		37 - 150	06/12/24 06:15	06/13/24 11:47	1

Lab Sample ID: LCS 670-95277/2-A

Matrix: Solid

Analysis Batch: 95560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.0133	0.00632		mg/Kg		47	32 - 146
2-Methylnaphthalene	0.0133	0.00563		mg/Kg		42	33 - 137
Acenaphthene	0.0133	0.00720		mg/Kg		54	43 - 138
Acenaphthylene	0.0133	0.00652		mg/Kg		49	38 - 138
Anthracene	0.0133	0.00882		mg/Kg		66	58 - 137
Benzo[a]anthracene	0.0133	0.0117		mg/Kg		88	62 - 135
Benzo[a]pyrene	0.0133	0.0115		mg/Kg		86	56 - 141
Benzo[b]fluoranthene	0.0133	0.0124		mg/Kg		93	61 - 138
Benzo[g,h,i]perylene	0.0133	0.0157		mg/Kg		118	58 - 132
Benzo[k]fluoranthene	0.0133	0.0130		mg/Kg		97	61 - 141
Chrysene	0.0133	0.0118		mg/Kg		88	62 - 132

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QC Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 670-95277/2-A

Matrix: Solid

Analysis Batch: 95560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dibenz(a,h)anthracene	0.0133	0.0143		mg/Kg		107	60 - 138
Fluoranthene	0.0133	0.0122		mg/Kg		92	65 - 140
Fluorene	0.0133	0.00831		mg/Kg		62	46 - 131
Indeno[1,2,3-cd]pyrene	0.0133	0.00958		mg/Kg		72	61 - 136
Naphthalene	0.0133	0.00559		mg/Kg		42	37 - 140
Phenanthrene	0.0133	0.00978		mg/Kg		73	52 - 140
Pyrene	0.0133	0.0110		mg/Kg		82	63 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-methylnaphthalene-d10	41		27 - 148
Fluoranthene-d10 (Surr)	91		37 - 150

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Lab Sample ID: MB 670-94850/1-A

Matrix: Solid

Analysis Batch: 94838

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94850

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	21	U	42	21	mg/Kg		06/10/24 09:30	06/10/24 18:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	88		66 - 136				06/10/24 09:30	06/10/24 18:56	1
C35 (Surr)	51		36 - 132				06/10/24 09:30	06/10/24 18:56	1

Lab Sample ID: LCS 670-94850/2-A

Matrix: Solid

Analysis Batch: 94838

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94850

			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Petroleum Hydrocarbons (C8-C40)			111	107		mg/Kg		96	55 - 130		
Surrogate			LCS %Recovery	LCS Qualifier	Limits						
o- terphenyl (Surr)			117		66 - 136						
C35 (Surr)			65		36 - 132						

Method: TPHCWG - TPH Criteria Working Group (CWG) Fractionation

Lab Sample ID: MB 400-675317/1-A

Matrix: Solid

Analysis Batch: 675641

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 675317

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Over C5-C6 aliphatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 13:10	1
Over C6-C8 aliphatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 13:10	1
Over C8-C10 aliphatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 13:10	1
Over C10-C12 aliphatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 13:10	1

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QC Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Method: TPHCWG - TPH Criteria Working Group (CWG) Fractionation (Continued)

Lab Sample ID: MB 400-675317/1-A
Matrix: Solid
Analysis Batch: 675641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675317

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Over C12-C16 aliphatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 13:10	1
Over C16-C35 aliphatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 13:10	1

Lab Sample ID: MB 400-675317/1-A
Matrix: Solid
Analysis Batch: 675642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 675317

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Over C5-C7 aromatics	20	U	20	20	mg/Kg		06/19/24 11:31	06/21/24 15:36	1
Over C7-C8 aromatics	25	U	35	25	mg/Kg		06/19/24 11:31	06/21/24 15:36	1
Over C8-C10 aromatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 15:36	1
Over C10-C12 aromatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 15:36	1
Over C12-C16 aromatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 15:36	1
Over C16-C21 aromatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 15:36	1
Over C21-C35 aromatics	25	U	50	25	mg/Kg		06/19/24 11:31	06/21/24 15:36	1

Lab Sample ID: LCS 400-675317/2-A
Matrix: Solid
Analysis Batch: 675641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Over C6-C8 aliphatics	206	217		mg/Kg		106	40 - 160
Over C8-C10 aliphatics	104	123		mg/Kg		119	40 - 160
Over C10-C12 aliphatics	97.2	148		mg/Kg		152	40 - 160
Over C12-C16 aliphatics	289	449		mg/Kg		155	40 - 160
Over C16-C35 aliphatics	389	579		mg/Kg		149	40 - 160

Lab Sample ID: LCS 400-675317/2-A
Matrix: Solid
Analysis Batch: 675642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 675317

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Over C7-C8 aromatics	50.0	40.7		mg/Kg		81	40 - 160
Over C8-C10 aromatics	144	160		mg/Kg		111	40 - 160
Over C10-C12 aromatics	104	111		mg/Kg		106	40 - 160
Over C12-C16 aromatics	113	75.8		mg/Kg		67	40 - 160
Over C16-C21 aromatics	103	59.9		mg/Kg		58	40 - 160
Over C21-C35 aromatics	24.8	27	U	mg/Kg		70	40 - 160

Lab Sample ID: LCSD 400-675317/3-A
Matrix: Solid
Analysis Batch: 675641

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 675317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Over C6-C8 aliphatics	205	213		mg/Kg		104	40 - 160	2	50
Over C8-C10 aliphatics	103	125		mg/Kg		120	40 - 160	1	50
Over C10-C12 aliphatics	97.1	133		mg/Kg		137	40 - 160	11	50
Over C12-C16 aliphatics	289	415		mg/Kg		144	40 - 160	8	50
Over C16-C35 aliphatics	388	554		mg/Kg		143	40 - 160	4	50

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QC Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Method: TPHCWG - TPH Criteria Working Group (CWG) Fractionation (Continued)

Lab Sample ID: LCSD 400-675317/3-A

Matrix: Solid

Analysis Batch: 675642

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 675317

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Over C7-C8 aromatics	50.0	42.9		mg/Kg		86	40 - 160	5	50
Over C8-C10 aromatics	144	141		mg/Kg		98	40 - 160	12	50
Over C10-C12 aromatics	104	89.4		mg/Kg		86	40 - 160	21	50
Over C12-C16 aromatics	113	73.4		mg/Kg		65	40 - 160	3	50
Over C16-C21 aromatics	103	57.2		mg/Kg		56	40 - 160	5	50
Over C21-C35 aromatics	24.8	27	U	mg/Kg		64	40 - 160	9	50

Lab Sample ID: 670-41208-2 MS

Matrix: Solid

Analysis Batch: 675641

Client Sample ID: SB-3

Prep Type: Total/NA

Prep Batch: 675317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Over C6-C8 aliphatics	28	U	231	220		mg/Kg	✱	95	40 - 160
Over C8-C10 aliphatics	28	U	116	120		mg/Kg	✱	103	40 - 160
Over C10-C12 aliphatics	28	U	109	131		mg/Kg	✱	120	40 - 160
Over C12-C16 aliphatics	28	U	325	441		mg/Kg	✱	136	40 - 160
Over C16-C35 aliphatics	450		436	662		mg/Kg	✱	49	40 - 160

Lab Sample ID: 670-41208-2 MS

Matrix: Solid

Analysis Batch: 675642

Client Sample ID: SB-3

Prep Type: Total/NA

Prep Batch: 675317

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Over C7-C8 aromatics	28	U	56.2	46.7		mg/Kg	✱	83	40 - 160
Over C8-C10 aromatics	28	U	162	157		mg/Kg	✱	97	40 - 160
Over C10-C12 aromatics	28	U	117	100		mg/Kg	✱	86	40 - 160
Over C12-C16 aromatics	28	U	127	89.3		mg/Kg	✱	70	40 - 160
Over C16-C21 aromatics	28	U	115	68.5		mg/Kg	✱	59	40 - 160
Over C21-C35 aromatics	28	U	27.8	31	U	mg/Kg	✱	NC	40 - 160

Lab Sample ID: 670-41208-2 MSD

Matrix: Solid

Analysis Batch: 675641

Client Sample ID: SB-3

Prep Type: Total/NA

Prep Batch: 675317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Over C6-C8 aliphatics	28	U	232	230		mg/Kg	✱	99	40 - 160	5	50
Over C8-C10 aliphatics	28	U	117	123		mg/Kg	✱	105	40 - 160	2	50
Over C10-C12 aliphatics	28	U	110	128		mg/Kg	✱	117	40 - 160	3	50
Over C12-C16 aliphatics	28	U	327	419		mg/Kg	✱	128	40 - 160	5	50
Over C16-C35 aliphatics	450		439	654		mg/Kg	✱	47	40 - 160	1	50

Lab Sample ID: 670-41208-2 MSD

Matrix: Solid

Analysis Batch: 675642

Client Sample ID: SB-3

Prep Type: Total/NA

Prep Batch: 675317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Over C7-C8 aromatics	28	U	56.5	43.9		mg/Kg	✱	78	40 - 160	6	50
Over C8-C10 aromatics	28	U	163	150		mg/Kg	✱	92	40 - 160	5	50
Over C10-C12 aromatics	28	U	117	99.0		mg/Kg	✱	84	40 - 160	1	50

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QC Sample Results

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Method: TPHCWG - TPH Criteria Working Group (CWG) Fractionation (Continued)

Lab Sample ID: 670-41208-2 MSD

Matrix: Solid

Analysis Batch: 675642

Client Sample ID: SB-3

Prep Type: Total/NA

Prep Batch: 675317

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Over C12-C16 aromatics	28	U	128	91.4		mg/Kg	⚡	72	40 - 160	2	50
Over C16-C21 aromatics	28	U	116	70.9		mg/Kg	⚡	61	40 - 160	3	50
Over C21-C35 aromatics	28	U	28.0	31	U	mg/Kg	⚡	NC	40 - 160	NC	50

QC Association Summary

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

GC/MS VOA

Prep Batch: 94543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-1	SB-1	Total/NA	Solid	5035	
670-41208-2 - DL	SB-3	Total/NA	Solid	5035	

Analysis Batch: 95058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-1	SB-1	Total/NA	Solid	8260D	94543
670-41208-2 - DL	SB-3	Total/NA	Solid	8260D	94543
MB 670-95058/8	Method Blank	Total/NA	Solid	8260D	
LCS 670-95058/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 670-95058/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 95277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-1	SB-1	Total/NA	Solid	3546	
670-41208-2	SB-3	Total/NA	Solid	3546	
MB 670-95277/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-95277/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 95560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-1	SB-1	Total/NA	Solid	8270E SIM	95277
670-41208-2	SB-3	Total/NA	Solid	8270E SIM	95277
MB 670-95277/1-A	Method Blank	Total/NA	Solid	8270E SIM	95277
LCS 670-95277/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	95277

GC Semi VOA

Analysis Batch: 94760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-1	SB-1	Total/NA	Solid	FL-PRO	94850
670-41208-2	SB-3	Total/NA	Solid	FL-PRO	94850

Analysis Batch: 94838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-94850/1-A	Method Blank	Total/NA	Solid	FL-PRO	94850
LCS 670-94850/2-A	Lab Control Sample	Total/NA	Solid	FL-PRO	94850

Prep Batch: 94850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-1	SB-1	Total/NA	Solid	3546	
670-41208-2	SB-3	Total/NA	Solid	3546	
MB 670-94850/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-94850/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 675317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-2	SB-3	Total/NA	Solid	TPHCWG_S_Pre	
MB 400-675317/1-A	Method Blank	Total/NA	Solid	TPHCWG_S_Pre	

Eurofins Orlando

QC Association Summary

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

GC Semi VOA (Continued)

Prep Batch: 675317 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-675317/2-A	Lab Control Sample	Total/NA	Solid	TPHCWG_S_Pre	
LCS 400-675317/3-A	Lab Control Sample Dup	Total/NA	Solid	TPHCWG_S_Pre	
670-41208-2 MS	SB-3	Total/NA	Solid	TPHCWG_S_Pre	
670-41208-2 MSD	SB-3	Total/NA	Solid	TPHCWG_S_Pre	

Prep Batch: 675553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-2	SB-3	Total/NA	Solid	TPH CWG Frac	675317

Analysis Batch: 675641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-2	SB-3	Total/NA	Solid	TPHCWG	675553
MB 400-675317/1-A	Method Blank	Total/NA	Solid	TPHCWG	675317
LCS 400-675317/2-A	Lab Control Sample	Total/NA	Solid	TPHCWG	675317
LCS 400-675317/3-A	Lab Control Sample Dup	Total/NA	Solid	TPHCWG	675317
670-41208-2 MS	SB-3	Total/NA	Solid	TPHCWG	675317
670-41208-2 MSD	SB-3	Total/NA	Solid	TPHCWG	675317

Analysis Batch: 675642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-2	SB-3	Total/NA	Solid	TPHCWG	675553
MB 400-675317/1-A	Method Blank	Total/NA	Solid	TPHCWG	675317
LCS 400-675317/2-A	Lab Control Sample	Total/NA	Solid	TPHCWG	675317
LCS 400-675317/3-A	Lab Control Sample Dup	Total/NA	Solid	TPHCWG	675317
670-41208-2 MS	SB-3	Total/NA	Solid	TPHCWG	675317
670-41208-2 MSD	SB-3	Total/NA	Solid	TPHCWG	675317

General Chemistry

Analysis Batch: 94640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-2	SB-3	Total/NA	Solid	Moisture	

Analysis Batch: 95050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-41208-1	SB-1	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Client Sample ID: SB-1

Date Collected: 06/06/24 13:35

Date Received: 06/07/24 07:30

Lab Sample ID: 670-41208-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	95050	RB	EET ORL	06/10/24 15:39

Client Sample ID: SB-1

Date Collected: 06/06/24 13:35

Date Received: 06/07/24 07:30

Lab Sample ID: 670-41208-1

Matrix: Solid

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			94543	RG	EET ORL	06/07/24 12:29
Total/NA	Analysis	8260D		1	95058	P1K	EET ORL	06/11/24 18:34
Total/NA	Prep	3546			95277	RP	EET ORL	06/12/24 06:15
Total/NA	Analysis	8270E SIM		1	95560	JI	EET ORL	06/13/24 18:07
Total/NA	Prep	3546			94850	FC	EET ORL	06/10/24 09:30
Total/NA	Analysis	FL-PRO		1	94760	JR	EET ORL	06/10/24 22:26

Client Sample ID: SB-3

Date Collected: 06/06/24 13:50

Date Received: 06/07/24 07:30

Lab Sample ID: 670-41208-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	94640	RB	EET ORL	06/07/24 11:33

Client Sample ID: SB-3

Date Collected: 06/06/24 13:50

Date Received: 06/07/24 07:30

Lab Sample ID: 670-41208-2

Matrix: Solid

Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035	DL		94543	RG	EET ORL	06/07/24 12:29
Total/NA	Analysis	8260D	DL	50	95058	P1K	EET ORL	06/11/24 18:55
Total/NA	Prep	3546			95277	RP	EET ORL	06/12/24 06:15
Total/NA	Analysis	8270E SIM		1	95560	JI	EET ORL	06/13/24 18:30
Total/NA	Prep	3546			94850	FC	EET ORL	06/10/24 09:30
Total/NA	Analysis	FL-PRO		1	94760	JR	EET ORL	06/10/24 22:44
Total/NA	Prep	TPHCWG_S_Prep			675317	BJ	EET PEN	06/19/24 11:31
Total/NA	Prep	TPH CWG Frac			675553	MP	EET PEN	06/20/24 14:49
Total/NA	Analysis	TPHCWG		1	675641	MP	EET PEN	06/21/24 14:12
Total/NA	Prep	TPHCWG_S_Prep			675317	BJ	EET PEN	06/19/24 11:31
Total/NA	Prep	TPH CWG Frac			675553	MP	EET PEN	06/20/24 14:49
Total/NA	Analysis	TPHCWG		1	675642	MP	EET PEN	06/21/24 17:01

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins Orlando

Accreditation/Certification Summary

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Laboratory: Eurofins Orlando

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E83018	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (WW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26
USDA	US Federal Programs	P330-21-00056	01-09-26
Virginia	NELAP	460166	06-14-25
West Virginia DEP	State	136	03-31-25

Method Summary

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET ORL
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET ORL
FL-PRO	Florida - Petroleum Range Organics (GC)	FL-DEP	EET ORL
TPHCWG	TPH Criteria Working Group (CWG) Fractionation	TPH CWG	EET PEN
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL
5035	Closed System Purge and Trap	SW846	EET ORL
TPH CWG Frac	TPH Criteria Working Group (CWG) Fractionation - Water	TPH CWG	EET PEN
TPHCWG_S_Prep	TPH Criteria Working Group Solid Preparation	TPH CWG	EET PEN

Protocol References:

EPA = US Environmental Protection Agency

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TPH CWG = Total Petroleum Hydrocarbon Criteria Working Group

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

Client: Universal Engineering Sciences Inc
Project/Site: 1974 SR 16

Job ID: 670-41208-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-41208-1	SB-1	Solid	06/06/24 13:35	06/07/24 07:30
670-41208-2	SB-3	Solid	06/06/24 13:50	06/07/24 07:30

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8021-6 Philips Highway
Jacksonville, FL 32256
Phone: 904-296-3007 Fax: 904-296-6210

[illegible]

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CAD: 255694836/NET4730

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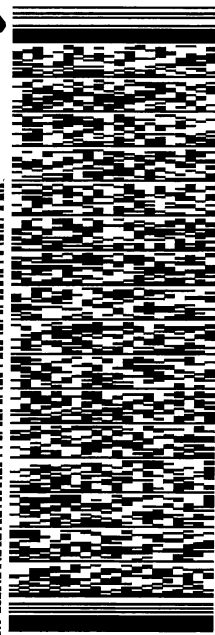
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PENSACOLA FL 32514

(850) 474-1001 REF:

INV: PO

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PRIORITY OVERNIGHT

2 of 2

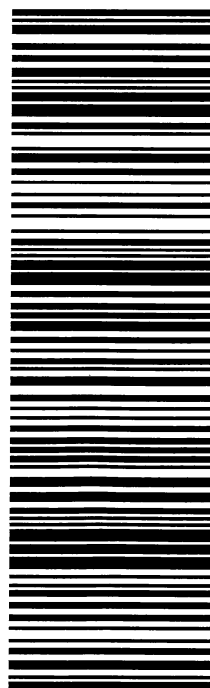
MPS# 7769 0614 6777

0201

Mstr# 7769 0614 5830

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Login Sample Receipt Checklist

Client: Universal Engineering Sciences Inc

Job Number: 670-41208-1

Login Number: 41208

List Source: Eurofins Orlando

List Number: 1

Creator: Lavardera, Angelina

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Universal Engineering Sciences Inc

Job Number: 670-41208-1

Login Number: 41208

List Number: 2

Creator: Pardonner, Brett

List Source: Eurofins Pensacola

List Creation: 06/18/24 02:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5°C IR11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C



Grounded in Excellence

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Site Name: State Road 16 Parcel Phase II ESA
 Location: 1974 State Road 16
St. Augustine, Florida

Soil Sample No. SB-1
 Sample Date 6/6/2024
 Location: See Site Map
 Depth (ft): 1

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.00080	1.0	0.00080
Benzo(a)anthracene	0.00390	0.1	0.00039
Benzo(b)fluoranthene	0.00500	0.1	0.00050
Benzo(k)fluoranthene	0.00110	0.01	0.00001
Chrysene	0.00490	0.001	0.00000
Dibenz(a,h)anthracene	0.00140	1.0	0.00140
Indeno(1,2,3-cd)pyrene	0.00150	0.1	0.00015

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = **0.00326**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value

Benzo(a)pyrene Conversion Table

For Direct Exposure Soil Cleanup Target Levels

Site Name: State Road 16 Parcel Phase II ESA
 Location: 1974 State Road 16
St. Augustine, Florida

Soil Sample No. SB-3
 Sample Date 6/6/2024
 Location: See Site Map
 Depth (ft): 3

INSTRUCTIONS: Calculate Total Benzo(a)pyrene Equivalents if at least one of the carcinogenic PAHs is detected in the sample at a concentration equal to or higher than the Method Detection Limit (MDL), whether quantified with certainty (the concentration reported has no qualifier) or estimated (the concentration reported has a "J", "T" or "I" qualifier). Enter the contaminant concentrations (in mg/kg) for all seven carcinogenic PAHs in the yellow boxes using the following criteria (and see table below):

1. If quantified with certainty, or estimated and has the "J" qualifier, enter the reported value;
2. If not detected at the MDL (the concentration reported is the MDL followed by the "U" qualifier) enter 1/2 of the reported value;
3. If detected at a concentration lower than the MDL and the concentration is estimated (has the "T" qualifier) enter the estimated value;
4. If detected at a concentration equal to or higher than the MDL but lower than the Practical Quantitation Limit (PQL) and the concentration is estimated (has the "I" qualifier) enter the estimated value;
5. If detected at a concentration equal to or higher than the MDL but lower than the PQL and it is not estimated (the concentration reported is the PQL followed by the "M" qualifier) enter 1/2 of the reported value.

Contaminant	Concentration (mg/kg)	Toxic Equivalency Factor	Benzo(a)pyrene Equivalents
Benzo(a)pyrene	0.00510	1.0	0.00510
Benzo(a)anthracene	0.00360	0.1	0.00036
Benzo(b)fluoranthene	0.00500	0.1	0.00050
Benzo(k)fluoranthene	0.00210	0.01	0.00002
Chrysene	0.00440	0.001	0.00000
Dibenz(a,h)anthracene	0.00130	1.0	0.00130
Indeno(1,2,3-cd)pyrene	0.00310	0.1	0.00031

DE Residential = 0.1 mg/kg; DE Industrial = 0.7 mg/kg

Total Benzo(a)pyrene Equivalents = **0.00760**

The concentration shown does not exceed the Residential Direct Exposure SCTL of 0.1 mg/kg.

The concentration shown does not exceed the Industrial Direct Exposure SCTL of 0.7 mg/kg.

Summary Criteria for Table Entries			
Detection	Concentration Reported	Data Qualifier	Enter
Various	Quantified with certainty	None	reported value
Various	Estimated	J	reported (estimated) value
ND at MDL	MDL	U	1/2 reported value
< MDL	Estimated	T	reported (estimated) value
≥ MDL but < PQL	Estimated	I	reported (estimated) value
≥ MDL but < PQL	PQL	M	1/2 reported value