

LEVEL III SOIL DELINEATION ASSESSMENT REPORT

Interstate 275 (State Road 93)

***From East of the Howard Franklin Bridge to East of Lois Avenue
Section 4***

Tampa, Hillsborough County, Florida

Financial Project Number: 447107-2-C2-01

February 12, 2024

Submitted to:

Florida Department of Transportation
District 7, PLEMO
11201 North McKinley Drive
Tampa, Florida 33612-6456

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APTIM Project Number: 631025979

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District 7, PLEMO
11201 North McKinley Drive
Tampa, Florida 33612-6456

Submitted by:

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725 U.S. Highway 301 South
Tampa, Florida 33619

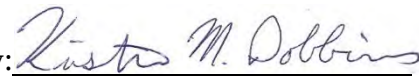
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Date: February 12, 2024

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List of Acronyms and Abbreviations

APTIM	APTIM Environmental and Infrastructure, LLC.
AST	aboveground storage tank
EPA	Environmental Protection Agency
Eurofins	Eurofins Environment Testing USA
F.A.C.	Florida Administrative Code
FDOT	Florida Department of Transportation
FPN	Financial Project Number
ft bls	feet below land surface
I-275	Interstate 275
mg/kg	milligrams per kilogram
ROW	right-of-way
SCTL	Soil Cleanup Target Level
SR	State Road

1.0 Introduction

The Florida Department of Transportation (FDOT), District 7, retained a consultant to conduct a Level III soil delineation assessment the project corridor along Interstate 275 (I-275) [State Road (SR) 93] from east of the Howard Franklin Bridge to east of Lois Avenue in Tampa, Hillsborough County, Florida. The Financial Project Number (FPN) for this project corridor is 447107-2-C2-01.

I-275, also known as SR 93, is a major interstate highway that runs north-south through Hillsborough County and the state of Florida. The FDOT is proposing improvements to an approximately 2.5-mile segment of I-275 from east of the Howard Franklin Bridge to east of Lois Avenue, Baseline Construction Stations 1075+44 to 1253+23. These improvements generally consist of milling and resurfacing, bridge widening and construction, and the construction of general use and express lanes. The FDOT provided the consultant with Line & Grade Submittal Roadway Plans dated October 2023. The approximate project corridor area is illustrated on a United States Geological Survey topographic map, **Figure 1**.

This report documents the investigation, which examined existing or proposed right-of-way (ROW) adjacent to each site to determine the extent of contaminant impacts to soil within the proposed construction area exists. Where it exists, contaminant impact to construction is described and recommendations for additional assessment or remedial action are provided.

1.1 Scope of Services

As discussed with the FDOT and provided in the Scope of Services (Letter of Authorization Number 59, Contract BEB40) dated November 1, 2023 (**Appendix A**), a Level III soil delineation assessment was conducted at two sites along the referenced I-275 corridor in Tampa, Hillsborough County, Florida.

To assist the FDOT with planning for the project, the Level III investigation included, but not limited to, the following tasks:

- Prepare a site-specific health and safety plan to ensure a safe working environment. Provide 40-hour Occupational Safety and Health Administration-trained personnel for performance of all field activities.
- Request utility mark-outs (i.e., setbacks, stations, and vertical and horizontal elevations) from the prime contractor or arrange with a utility locator service to identify and adequately mark all underground utilities in the areas where subsurface investigation will occur, when necessary.
- At Site 43 and Site 48, advance up to 47 soil borings to approximately 4 feet below land surface (ft bls), approximately 50 feet apart by hand auger along proposed lane construction. Collect 47 soil samples from the borings for laboratory analysis of organochlorine pesticides to delineate the extent of the soil contamination in this area.

- At Site 28, advance up to seven soil borings to approximately 2 ft bls, approximately 50 feet apart, by hand auger along proposed lane construction. Collect seven soil samples from the borings for laboratory analysis of arsenic in order to delineate the extent of the soil contamination in this area.
- Properly decontaminate tools and equipment before use and between all boring and drilling locations in accordance with the DEP-SOP-01/001.
- Perform work in compliance with Chapter 62-780, Florida Administrative Code (F.A.C.), “Petroleum Contamination Site Cleanup Criteria” and related or relevant chapters and in compliance with the “FDOT Standard Specifications for Road and Bridge Construction.”
- As requested by the FDOT, review construction plans and previous contamination assessments for the referenced corridor. Provide recommendations for additional evaluations, investigations, or remediation activities to be completed prior to or during construction, should they be necessary.
- Submit a Level III Soil Delineation Assessment Report to the department summarizing field activities. The report will be technically concise and will include data collected, analyses, and recommendations. Include graphics, tables, and appendices to completely illustrate the assessment effort. Provide recommendations for additional evaluations, investigations, or remediation activities to be completed prior to or during construction, should they be necessary. Submit one draft report and upon approval, submit one (1) final electronic copy of the report.

1.2 Previous Investigations

The construction support services provided were based upon the findings and recommendations documented in previous hazardous material investigations performed along the I-275 corridor:

- Aptim Environmental & Infrastructure, LLC (APTIM) “Level II Contamination Assessment Report for I-275 (SR 93) From South of SR 60 to North of the Hillsborough River and SR 60 from South of Interstate 575 to SR 589 (Section 4) and I-275 (State Road 93)/SR 60 Interchange R/W (Section 5), Tampa, Hillsborough County, Florida. FPNs 412531-1-C2-01 and 412531-2-C2-01. APTIM Project No. 631025979. November 28, 2022.

Soil contamination was found at two sites along the current project corridor:

- Site 43: City of Tampa Landfill #22 and Site 48: Aggreko LLC.
- Site 28: Memorial and Cypress Avenue Landfill

One soil sample was collected in the vicinity of Site 43/Site 48. Pesticide compounds exceeded the Direct Exposure Residential Soil Cleanup Target Level (SCTL), Direct Exposure Industrial SCTL, and/or Leachability Based on Groundwater Criteria SCTL, as provided in Chapter 62-777, F.A.C. Impacted soil above the Direct Exposure Industrial SCTL must be removed from the site. The consultant recommended that impacted soil above Direct Exposure Residential SCTL may remain at this site if it can be used as suitable fill.

One soil sample was collected in the vicinity of Site 28. Arsenic in soil exceeded the Direct Exposure Residential SCTL. Impacted soil above Direct Exposure Residential SCTL may remain at this site if it can be used as suitable fill.

If the contaminated soil must be removed from either site, the extent of contamination in soil should be delineated in the vicinity of proposed subsurface construction prior to the start of construction. The contaminated soil should be excavated based on the delineation results. Soil samples for disposal characterization should be collected prior to disposal. The contaminated soil should be staged on visqueen for off-site transport and disposal. The excavated soil should be replaced with clean backfill in the excavation.

2.0 Construction Support Activities

The FDOT improvements along the I-275 corridor generally consist of milling and resurfacing, bridge widening and construction, and the construction of general use and express lanes. As described in previous assessments, contaminant-impacted soil and was documented within the proposed area of construction in the vicinity of two sites. Based on the construction plans and communications with the FDOT, the consultant conducted soil contamination delineation sampling at the sites. The following sections describe the specific support services provided in advance of construction activities listed in **Section 1.0**.

2.1 Site 43: City of Tampa Landfill #22

**Lemon Street
Block #5100
EPA ID No. COM_228368**

Site 48: Aggreko LLC.

**505 North Sherrill Street
FID No. 29/9808190
EPA ID No. FLD984261578**

Impacts: Soil

City of Tampa Landfill #22 (Site 43) is located north of I-275 and east of SR 60 (Memorial Highway). The site is a former 10-acre landfill and now operates as an office and medical building. When it was operating, the landfill accepted primarily construction/demo debris, including concrete, asphalt, polyvinyl chloride, plastic, and wood. A landfill gas survey in July 2000 detected no methane.

Aggreko LLC. (Site 48) is located north of I-275 and east of SR 60 (Memorial Highway). It is regulated under facility identification number 29/9808190 as a closed non-retail storage tank facility. It reported one 20,000-gallon capacity emergency generator diesel aboveground storage tank (AST), one 1,100-gallon capacity vehicular diesel AST, one 502-gallon capacity waste oil AST, one 525-gallon capacity new/lube oil AST, one 550-gallon capacity vehicular diesel AST, and one 1,500-gallon capacity vehicular diesel AST. All of the ASTs have been removed from the site. One petroleum discharge was reported on September 20, 2007. Cleanup has been completed and the discharge is listed as closed with No Further Action Complete. The facility is also regulated under Environmental Protection Agency (EPA) identification number FLD984261578 as a former small quantity and conditionally exempt small quantity generator of hazardous waste.

During the 2022 Level II assessment, two soil samples were collected for laboratory analysis. Aldrin, dieldrin, chlordane, 4,4-DDD, and 4,4-DDE in soil exceeded the Direct Exposure Industrial SCTLs, Direct Exposure Residential SCTLs, and/or Leachability Based on Groundwater Criteria SCTL. The site locations and proposed construction are shown on **Figure 2**.

2.1.1 Soil Investigation

To delineate impacts in the anticipated area of work, 57 soil borings (SB-1 through SB-57) were advanced across the site and in the I-275 ROW. The borings were advanced to approximately 4 ft bls. Groundwater was not encountered above 4 ft bls. The soil borings and sample locations are shown on **Figure 2**.

Grab soil samples were collected from each boring at 4 ft bls. The samples were submitted to Eurofins Testing USA (Eurofins) in Tampa, Florida, and analyzed for organochlorine pesticides by EPA Method 8081B. The analytical results indicated that dieldrin exceeded the 0.002 mg/kg Leachability Based on Groundwater Criteria SCTL in samples SB15@4 (0.010 mg/kg), SB28@4 (0.0027 mg/kg), SB40@4 (0.012 mg/kg), SB48 (0.0034 mg/kg), and SB51@4 (0.0079 mg/kg). No SCTL exceedances were reported in the other 52 samples. Various constituents were detected in the samples at concentrations below the SCTLs. Results for detected constituents in the soil are summarized in **Table 1**. Copies of the laboratory analytical reports and chain-of-custody records are provided in **Appendix B**.

2.1.2 Impacts to Construction

Based on the October 2023 Roadway Plans, general use lanes, express lanes, and milling and resurfacing are proposed in the vicinity of this site. The maximum depth of proposed construction is unknown. As groundwater was encountered at approximately 8 bls during the 2022 Level II assessment, dewatering is anticipated.

This Level III soil delineation investigation found dieldrin exceeding the Leachability Based on Groundwater Criteria SCTLs in five samples. Based on these results, this soil may remain on the site. If the soil must be removed from the site, contaminated soil at **SB15@4**, **SB28@4**, **SB40@4**, **SB48@4**, and/or **SB51@4** should be excavated and staged on visqueen for off-site transport and disposal. The excavated soil should be replaced with clean backfill. No further assessment is recommended. If changes to proposed drainage alignments and/or additional utility adjustments occur in subsequent construction plans, additional assessment and/or remedial action may be required.

2.2 Site 28: Memorial and Cypress Avenue Landfill

Memorial Avenue at West Cypress Street

ID No. NA

Impacts: None

Memorial and Cypress Avenue Landfill (Site 28) is located at the intersection of Memorial Highway (SR 60) and West Cypress Street. No identification numbers are associated with this site. The site location and proposed construction are shown on **Figure 3**.

During the 2022 Level II assessment, two soil sample was collected for laboratory analysis. Arsenic in soil exceeded the Direct Exposure Residential SCTL. The site location and proposed construction are shown on **Figure 3**.

2.2.1 Soil Investigation

To delineate impacts in the anticipated area of work, seven soil borings (SB-1 through SB-7) were advanced along the east side of SR 60 at West Cypress Street. The borings were advanced to approximately 2 ft bls. Groundwater was not encountered above 2 ft bls. The soil borings and sample locations are shown on **Figure 3**.

Grab soil samples were collected from each boring at 2 ft bls. The samples were submitted to Eurofins and analyzed for arsenic by EPA Method 6020B. The analytical results for all seven samples indicated that no constituents exceeded the SCTLs. Arsenic was detected at concentrations below the SCTLs in sample **SB4@2**. Results for detected constituents in the soil are summarized in **Table 1**. Copies of the laboratory analytical report and chain-of-custody record are provided in **Appendix B**.

2.2.2 Impacts to Construction

Based on the October 2023 Roadway Plans, general use lanes and bridges, express lanes and bridges, and associated bridge piers are proposed in the vicinity of this site. The maximum depth of proposed construction is unknown. As groundwater was encountered at approximately 5 ft bls during the 2022 Level II assessment, dewatering is anticipated.

This Level III soil delineation investigation found no soil contamination in the samples collected at this location. No further assessment or remedial action is recommended. If changes to proposed drainage alignments and/or additional utility adjustments occur in subsequent construction plans, additional assessment and/or remedial action may be required.

3.0 Summary of Findings

A Level III soil delineation investigation was performed at the two sites of concern, based upon a review of the 2023 Roadway Plans, the results from a 2022 Level II Soil and Groundwater Assessment, and discussion with FDOT.

Minor soil contamination was encountered at Site 43 and Site 48. The contaminant concentrations exceeded only the Leachability Based on Groundwater Criteria SCTLs. Based on these results, this soil may remain on the site. If the soil must be removed from the site, contaminated soil at **SB15@4**, **SB28@4**, **SB40@4**, **SB48@4**, and/or **SB51@4** should be excavated and staged on visqueen for off-site transport and disposal. The excavated soil should be replaced with clean backfill. No further assessment is recommended.

No soil contamination was encountered at Site 28. No further assessment or remedial action is recommended.

A review of subsequent construction plans for changes to proposed drainage alignments and/or additional utility adjustments should be conducted as these changes may result in contaminant impact to construction not otherwise noted in this report. Additional assessment and/or remedial action may be required.

4.0 Disclaimer

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client, unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, timeframes, and project parameters indicated. APTIM is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. APTIM does not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

Table

TABLE 1: SOIL ANALYTICAL SUMMARY

Level II Contamination Assessment

I-275 (SR 93) from East of the Howard Franklin Bridge to East of Lois Avenue - Section 4

Hillsborough County, Florida

FPN: 447107-2-C2-01

Sample					RCRA Metals by SW 6010D (mg/kg)	Organochlorine Pesticides by EPA 8081B (mg/kg)																							
Site	Date	Sample ID	Depth (ft bls)	Analysis	Arsenic	Aldrin	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)	4,4-DDD	4,4-DDE	4,4-DDT	Dieldrin	Endosulfan I	Endosulfan II	Endrin	Endrin Aldehyde	Heptachlor	Heptachlor Epoxide	Methoxychlor	Endosulfan Sulfate	Endrin Ketone	Toxaphene	Chlordane	alpha-Chlordane	gamma-Chlordane		
SCTLs - Direct Exposure Residential					2.1	0.06	0.1	0.5	24	0.7	4.2	2.9	2.9	0.06	NS	NS	25	NS	0.2	0.1	420	450	NS	0.9	2.8	NS	NS		
SCTLs - Direct Exposure Industrial					12	0.3	0.6	2.4	490	2.5	22	15	15	0.3	NS	NS	510	NS	1	0.5	8,800	7,600	NS	4.5	14	NS	NS		
SCTLs - Leachability Criteria					★	0.2	0.0003	0.001	0.2	0.009	5.8	18	11	0.002	NS	NS	1	NS	23	0.6	160	3.8	NS	31	9.6	NS	NS		
Site 43: City of Tampa Landfill #22 Site 48: Aggreko LLC.	11/13/23	SB1@4	4	Organochlorine Pesticides by EPA Method 8081B	NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.0022 (I)	U		
		SB2@4	4		NR	U	U	U	U	U	U	0.00052 (I)	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB3@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB4@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB5@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
	11/14/23	SB6@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB7@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB8@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB9@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB10@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB11@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB12@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB13@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB14@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB15@4	4		NR	U	U	U	U	U	U	U	U	0.010 (I)	U	U	U	U	U	U	U	U	U	U	U	0.070	0.011 (I)	0.020	
		SB16@4	4		NR	U	U	U	U	U	0.00061 (I)	0.0012 (I)	0.033	U	U	U	U	U	U	U	U	U	U	U	0.011	0.0011 (I)	0.0015 (I)		
		SB17@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB18@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB19@4	4		NR	U	U	U	U	U	U	U	0.0020 (I)	U	U	U	U	U	U	U	U	U	U	U	U	0.0015 (I)	0.0020 (I)		
	11/15/23	SB20@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB21@4	4		NR	U	U	U	U	U	U	U	0.0029 (I)	U	U	U	U	U	U	U	U	U	U	U	U	0.0011 (I)	U		
		SB22@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.00077 (I)	0.00084 (I)		
		SB23@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB24@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB25@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB26@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB27@4	4		NR	U	U	U	U	U	U	0.00054 (I)	0.0059 (I)	0.0024 (I)	U	U	0.00094 (I)	U	U	U	U	U	U	U	U	0.0013 (I)	0.0018 (I)		
		SB28@4	4		NR	U	U	U	U	U	U	0.00046 (I)	0.0021 (I)	0.0027 (I)	U	U	U	U	U	U	U	U	U	U	U	0.0015 (I)	0.0016 (I)		
		SB29@4	4		NR	U	U	U	U	U	0.010 (I)	0.0013 (I)	0.0062 (I)	U	U	U	U	U	0.011 (I)	U	U	U	U	U	U	0.0017 (I)	U		
		SB30@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB31@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB32@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
		SB33@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		

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FPN: 447107-2-C2-01

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SCTLs - Direct Exposure Residential					2.1	0.06	0.1	0.5	24	0.7	4.2	2.9	2.9	0.06	NS	NS	25	NS	0.2	0.1	420	450	NS	0.9	2.8	NS	NS
SCTLs - Direct Exposure Industrial					12	0.3	0.6	2.4	490	2.5	22	15	15	0.3	NS	NS	510	NS	1	0.5	8,800	7,600	NS	4.5	14	NS	NS
SCTLs - Leachability Criteria					★	0.2	0.0003	0.001	0.2	0.009	5.8	18	11	0.002	NS	NS	1	NS	23	0.6	160	3.8	NS	31	9.6	NS	NS
Site 43: City of Tampa Landfill #22 Site 48: Aggreko LLC.	11/16/23	SB34@4	4	Organochlorine Pesticides by EPA Method 8081B	NR	U	U	U	U	U	U	U	U	0.00028 (I)	U	U	U	U	U	U	U	U	U	U	U	0.00054 (I)	0.00054 (I)
		SB35@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB36@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB37@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB38@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB39@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB40@4	4		NR	0.012	U	U	U	U	U	U	U	0.012	U	U	U	U	U	U	U	U	U	U	U	0.00057 (I)	0.00069 (I)
		SB41@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB42@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.016	0.0019 (I)	0.0017 (I)
		SB43@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB44@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB45@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB46@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
		SB47@4	4		NR	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
	01/12/24	SB48	4	Dieldrin by EPA Method 8081B	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0034 (I)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	01/23/24	SB49@4	4	Dieldrin by EPA Method 8081B	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB50@4	4		NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB51@4	4		NR	NR	NR	NR	NR	NR	NR	NR	NR	0.0079 (I)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB52@4	4		NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB53@4	4		NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB54@4	4		NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB55@4	4		NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	01/30/24	SB-56@4	4	Dieldrin by EPA Method 8081B	NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	01/30/24	SB-57@4	4		NR	NR	NR	NR	NR	NR	NR	NR	NR	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Site 28: Memorial and Cypress Avenue Landfill	11/13/23	SB1@2	2	Arsenic by EPA Method 6020B	U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB2@2	2		U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB3@2	2		U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB4@2	2		2.1 (I)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB5@2	2		U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB6@2	2		U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
		SB7@2	2		U	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Notes:

SCTLs = Soil Cleanup Target Levels per Chapter 62-777, Table II, Florida Administrative Code

EPA = Environmental Protection Agency

ft bls = feet below land surface

(I) = The reported value is between the laboratory method detection limit and the laboratory

mg/kg = milligrams per kilogram

NR = not requested

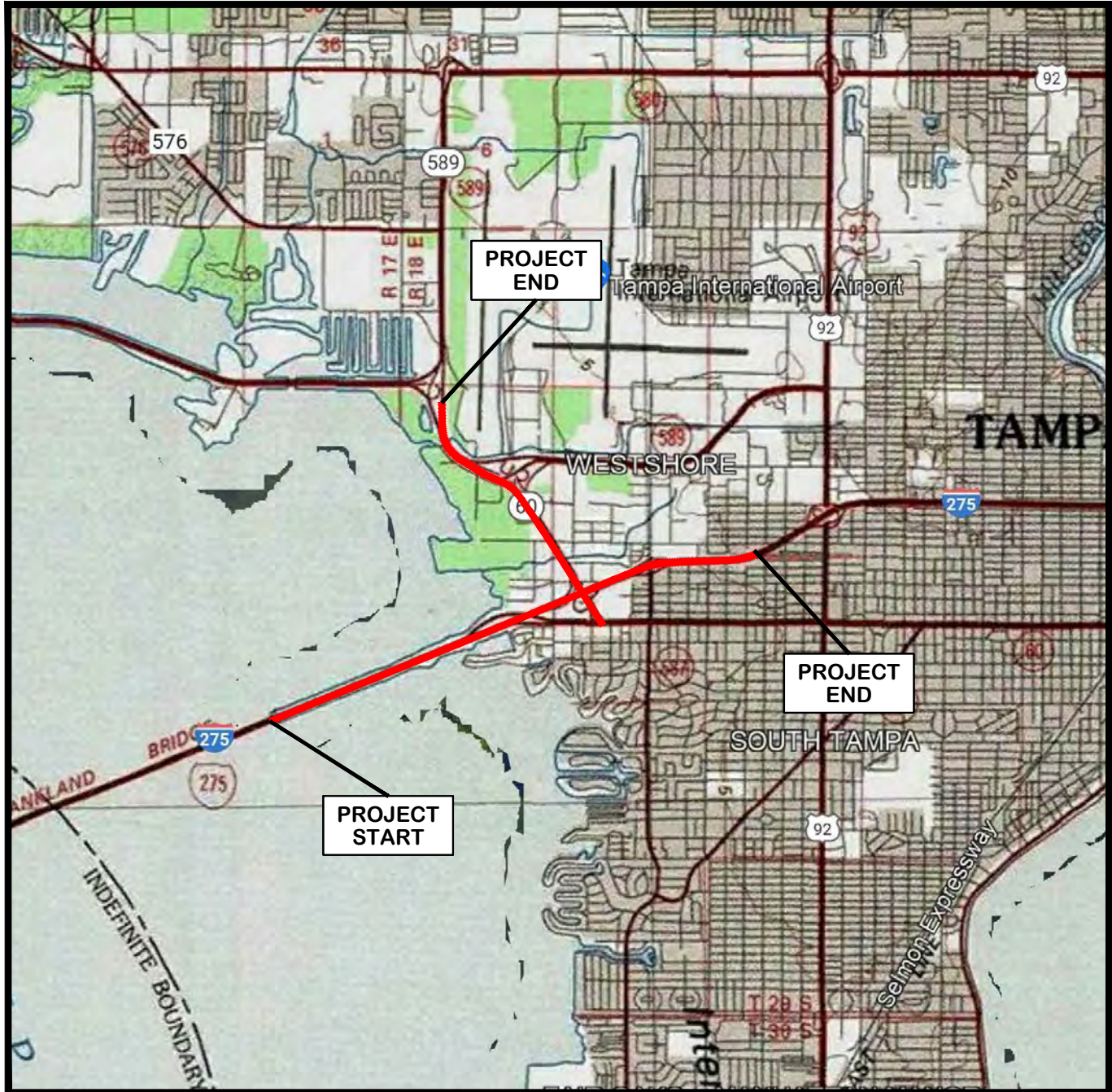
NS = no standard

U = Undetected

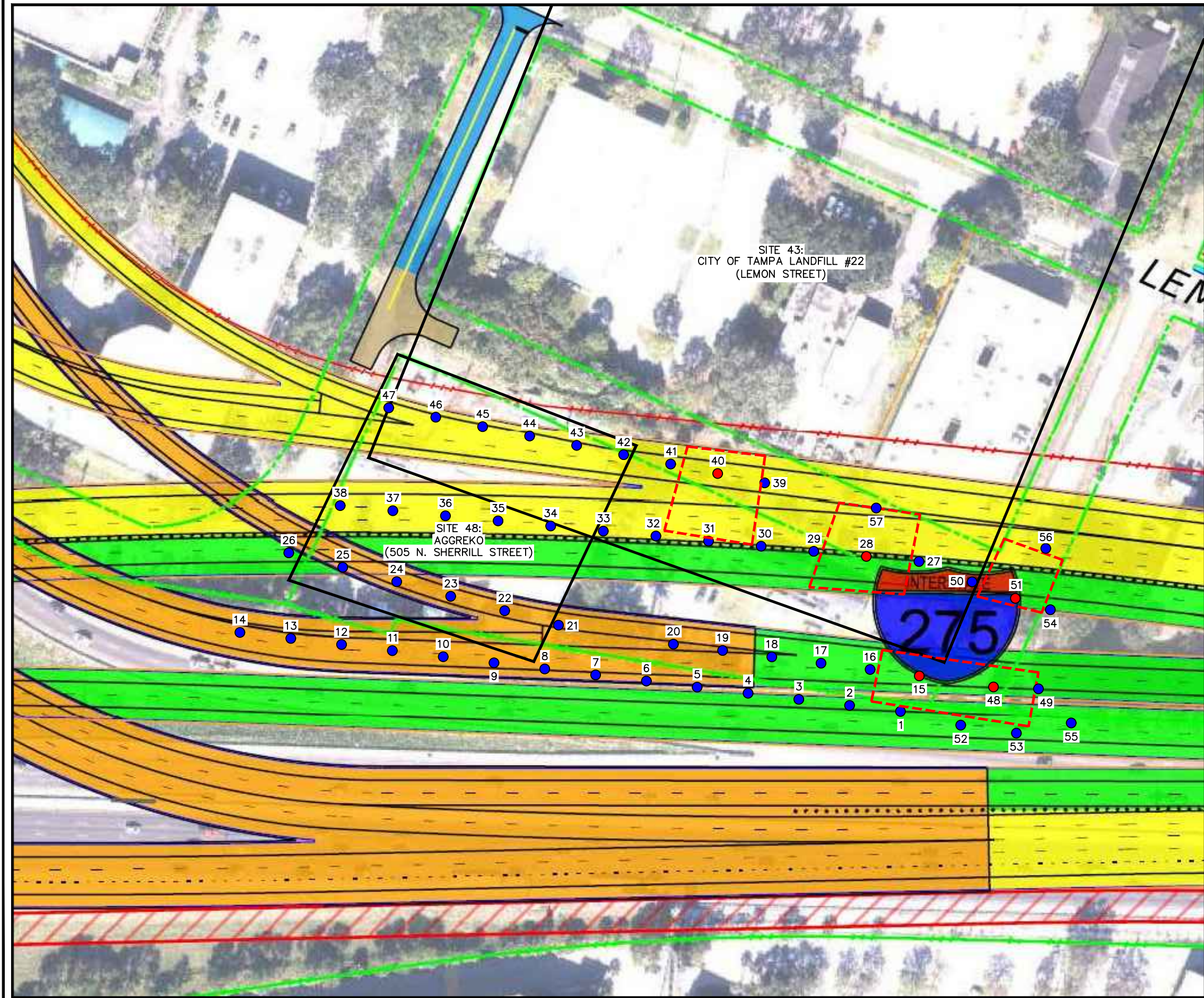
★ = May be derived using SPLP to calculate site-specific SCTLs or determined by Toxicity Characteristic Leaching Procedure in event of oily wastes

Bold and shaded cells indicate SCTLs exceeded

Figures

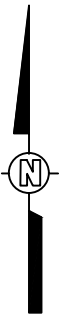


OFFICE: TAMPA	DATE: 2-5-24	ACAD FILE: 5979A1	
SITE LOCATION MAP			
CLIENT: FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT 7		PM: JJ	
LOCATION: INTERSTATE 275 (SR 93) from EAST of the HOWARD FRANKLIN BRIDGE to EAST of LOIS AVENUE – SECTION 4 TAMPA, HILLSBOROUGH COUNTY, FLORIDA FPB 447107-2-CS-01			
DESIGNED: JJ	DRAWN: SDJF	PROJECT NO.: 631025979	FIGURE: 1



LEGEND:

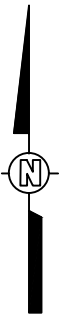
- SOIL SAMPLE BELOW SCTL
- SOIL SAMPLE EXCEEDING LEACHABILITY SCTL
- APPROXIMATE AREA OF SCTL EXCEEDANCE



OFFICE: TAMPA	DATE: 2-5-24	ACAD FILE: 5979B2	
SOIL SAMPLE LOCATION MAP			
CLIENT: FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT 7			PM: JJ
LOCATION: SITE 43: CITY OF TAMPA LANDFILL #22 SITE 48: AGGREKO LLC. INTERSTATE 275 (SR 93) from EAST of the HOWARD FRANKLIN BRIDGE to EAST of LOIS AVENUE – SECTION 4 TAMPA, HILLSBOROUGH COUNTY, FLORIDA FPB 447107-2-CS-01			
DESIGNED: JJ	DRAWN: SDJF	PROJECT NO.: 631025979	FIGURE: 2



LEGEND:
● SOIL SAMPLE BELOW SCTL



OFFICE: TAMPA	DATE: 2-5-24	ACAD FILE: 5979B1	
SOIL SAMPLE LOCATION MAP			
CLIENT: FLORIDA DEPARTMENT OF TRANSPORTATION – DISTRICT 7			PM: JJ
LOCATION: SITE 28: MEMORIAL and CYPRESS AVENUE LANDFILL INTERSTATE 275 (SR 93) from EAST of the HOWARD FRANKLIN BRIDGE to EAST of LOIS AVENUE – SECTION 4 TAMPA, HILLSBOROUGH COUNTY, FLORIDA FPB 447107-2-CS-01			
DESIGNED: JJ	DRAWN: SDJF	PROJECT NO.: 631025979	FIGURE: 3

Appendix A
Scope of Services

ATTACHMENT "A"
SCOPE OF SERVICES
FOR
LEVEL III SOIL DELINEATION
I-275 (STATE ROAD 93)
FROM EAST OF THE HOWARD FRANKLAND BRIDGE TO
EAST OF LOIS AVENUE – SECTION 4
TAMPA, HILLSBOROUGH COUNTY, FLORIDA

FINANCIAL PROJECT NUMBER

447107-2-C2-01

FLORIDA DEPARTMENT OF TRANSPORTATION

DISTRICT 7

I. DESCRIPTION:

Consultant services are required for Level III soil delineation services at I-275 (State Road 93) from east of the Howard Frankland Bridge to east of Lois Avenue, Section 4, in Tampa, Hillsborough County, Florida.

II. OBJECTIVES:

The Consultant shall determine the extent of contamination based upon a review of the available contract plans, determine if soil or groundwater contamination will impact the planned work, and provide recommendations to the Florida Department of Transportation (FDOT) for additional evaluations, investigations, or remediation activities to be completed, and preparation of a technically concise report to document services performed.

III. PROVISIONS FOR WORK:

All work shall be performed in accordance with the applicable rules and regulations of the Florida Department of Environmental Protection (FDEP), Florida Administrative Code (FAC), Southwest Florida Water Management District (SWFWMD), FDOT Standard Specifications for Road and Bridge Construction, Environmental Protection Agency (EPA), and any other pertinent county, state, or federal authority.

IV. SERVICES:

- A. Prepare a site-specific health and safety plan to ensure a safe working environment. Provide 40-hour Occupational Safety and Health Administration (OSHA)-trained personnel for performance of all field activities.
- B. Request utility mark-outs (i.e., setbacks, stations, and vertical and horizontal elevations) from the prime contractor or arrange with a utility locator service to identify and adequately mark all underground utilities in the areas where subsurface investigation will occur, when necessary.
- C. At Site 43 and Site 48, advance up to 47 soil borings to approximately four feet below land surface, approximately 50 feet apart by hand auger along proposed lane construction. Collect 47 soil samples from the borings for laboratory analysis of organochlorine pesticides in order to delineate the extent of the soil contamination in this area.
- D. At Site 28, advance up to seven soil borings to approximately two feet below land surface, approximately 50 feet apart, by hand auger along proposed lane construction. Collect seven soil samples from the borings for laboratory analysis of arsenic in order to delineate the extent of the soil contamination in this area.

- E. Properly decontaminate tools and equipment before use and between all boring and drilling locations in accordance with the Department of Environmental Protection Standard Operating Procedure (DEP-SOP)-01/001.
- F. Perform work in compliance with Chapter 62-780, FAC., "Petroleum Contamination Site Cleanup Criteria" and related or relevant chapters and in compliance with the "FDOT Standard Specifications for Road and Bridge Construction."
- G. As requested by the FDOT, review construction plans and previous contamination assessments for the referenced corridor. Provide recommendations for additional evaluations, investigations, or remediation activities to be completed prior to or during construction, should they be necessary.
- H. Submit a Level III soil delineation assessment report to the FDOT summarizing field activities. The report will be technically concise and will include data collected, analyses, and recommendations. Include graphics, tables, and appendices to completely illustrate the assessment effort. Provide recommendations for additional evaluations, investigations, or remediation activities to be completed prior to or during construction, should they be necessary. Submit one draft report and upon approval, submit one final electronic copy of the report.

V. FDOT RESPONSIBILITIES:

The FDOT may opt to provide any liaison function necessary to accomplish the work. Any questions concerning this project should be directed to Taylor Mandalou, Hazardous Materials Project Manager, at 813-975-6939 or, by email, at taylor.mandalou@dot.state.fl.us.

VI. LENGTH OF SERVICES:

Services will end upon project or contract completion, whichever occurs first, following receipt of authorization by the FDOT.

Appendix B
Laboratory Analytical Reports and
Chain-of-Custody Records



ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 11/17/2023 1:53:03 PM

JOB DESCRIPTION

FDOT District 7-1-275 Soil Delineation Site 28

JOB NUMBER

660-132958-1

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
11/17/2023 1:53:03 PM

Authorized for release by
Carlene Pasipanki, Project Manager
carlene.pasipanki@et.eurofinsus.com
(321)282-6397

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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-132958-1	SB1@2	Solid	11/13/23 08:40	11/14/23 12:50
660-132958-2	SB2@2	Solid	11/13/23 08:50	11/14/23 12:50
660-132958-3	SB3@2	Solid	11/13/23 09:00	11/14/23 12:50
660-132958-4	SB4@2	Solid	11/13/23 09:10	11/14/23 12:50
660-132958-5	SB5@2	Solid	11/13/23 09:20	11/14/23 12:50
660-132958-6	SB6@2	Solid	11/13/23 09:30	11/14/23 12:50
660-132958-7	SB7@2	Solid	11/13/23 09:40	11/14/23 12:50

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB1@2

Lab Sample ID: 660-132958-1

No Detections.

Client Sample ID: SB2@2

Lab Sample ID: 660-132958-2

No Detections.

Client Sample ID: SB3@2

Lab Sample ID: 660-132958-3

No Detections.

Client Sample ID: SB4@2

Lab Sample ID: 660-132958-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.1	I	4.0	2.0	mg/Kg	5		☆	6020B	Total/NA

Client Sample ID: SB5@2

Lab Sample ID: 660-132958-5

No Detections.

Client Sample ID: SB6@2

Lab Sample ID: 660-132958-6

No Detections.

Client Sample ID: SB7@2

Lab Sample ID: 660-132958-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Job ID: 660-132958-1

Laboratory: Eurofins Tampa

Narrative

Job Narrative 660-132958-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/14/2023 12:50 PM. 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 time was 2.2°C

Metals

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

General Chemistry

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

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Qualifiers

Metals

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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB1@2

Lab Sample ID: 660-132958-1

Date Collected: 11/13/23 08:40

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 93.1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.54	U	1.1	0.54	mg/Kg	☼	11/15/23 10:48	11/15/23 16:08	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB2@2

Lab Sample ID: 660-132958-2

Date Collected: 11/13/23 08:50

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 98.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.52	U	1.0	0.52	mg/Kg	☼	11/15/23 10:48	11/15/23 16:10	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB3@2

Lab Sample ID: 660-132958-3

Date Collected: 11/13/23 09:00

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 91.2

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.55	U	1.1	0.55	mg/Kg	☼	11/15/23 10:48	11/15/23 16:13	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB4@2

Lab Sample ID: 660-132958-4

Date Collected: 11/13/23 09:10

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 25.1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1	I	4.0	2.0	mg/Kg	☼	11/15/23 10:48	11/15/23 16:18	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB5@2

Lab Sample ID: 660-132958-5

Date Collected: 11/13/23 09:20

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 31.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6	U	3.3	1.6	mg/Kg	☼	11/15/23 10:48	11/15/23 16:21	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB6@2

Lab Sample ID: 660-132958-6

Date Collected: 11/13/23 09:30

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 12.1

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2	U	8.4	4.2	mg/Kg	☼	11/15/23 10:48	11/15/23 16:24	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB7@2

Lab Sample ID: 660-132958-7

Date Collected: 11/13/23 09:40

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 8.8

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6	U	11	5.6	mg/Kg	☼	11/15/23 10:48	11/15/23 16:27	5

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 670-63399/3-A

Matrix: Solid

Analysis Batch: 63637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63399

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.10	U	0.20	0.10	mg/Kg		11/15/23 10:48	11/15/23 15:03	1

Lab Sample ID: LCS 670-63399/1-A

Matrix: Solid

Analysis Batch: 63637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.18		mg/Kg		92	80 - 120

Lab Sample ID: LCSD 670-63399/2-A

Matrix: Solid

Analysis Batch: 63637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 63399

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	10.0	9.34		mg/Kg		93	80 - 120	2	20

Lab Sample ID: 670-30227-A-10-A MS ^5

Matrix: Solid

Analysis Batch: 63637

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.50	U	10.4	10.0		mg/Kg	☆	96	75 - 125

Lab Sample ID: 670-30227-A-10-B MSD ^5

Matrix: Solid

Analysis Batch: 63637

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.50	U	10.4	9.60		mg/Kg	☆	92	75 - 125	4	20

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Metals

Prep Batch: 63399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132958-1	SB1@2	Total/NA	Solid	3051A	
660-132958-2	SB2@2	Total/NA	Solid	3051A	
660-132958-3	SB3@2	Total/NA	Solid	3051A	
660-132958-4	SB4@2	Total/NA	Solid	3051A	
660-132958-5	SB5@2	Total/NA	Solid	3051A	
660-132958-6	SB6@2	Total/NA	Solid	3051A	
660-132958-7	SB7@2	Total/NA	Solid	3051A	
MB 670-63399/3-A	Method Blank	Total/NA	Solid	3051A	
LCS 670-63399/1-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 670-63399/2-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
670-30227-A-10-A MS ^5	Matrix Spike	Total/NA	Solid	3051A	
670-30227-A-10-B MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3051A	

Analysis Batch: 63637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132958-1	SB1@2	Total/NA	Solid	6020B	63399
660-132958-2	SB2@2	Total/NA	Solid	6020B	63399
660-132958-3	SB3@2	Total/NA	Solid	6020B	63399
660-132958-4	SB4@2	Total/NA	Solid	6020B	63399
660-132958-5	SB5@2	Total/NA	Solid	6020B	63399
660-132958-6	SB6@2	Total/NA	Solid	6020B	63399
660-132958-7	SB7@2	Total/NA	Solid	6020B	63399
MB 670-63399/3-A	Method Blank	Total/NA	Solid	6020B	63399
LCS 670-63399/1-A	Lab Control Sample	Total/NA	Solid	6020B	63399
LCSD 670-63399/2-A	Lab Control Sample Dup	Total/NA	Solid	6020B	63399
670-30227-A-10-A MS ^5	Matrix Spike	Total/NA	Solid	6020B	63399
670-30227-A-10-B MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6020B	63399

General Chemistry

Analysis Batch: 63667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132958-4	SB4@2	Total/NA	Solid	Moisture	
660-132958-5	SB5@2	Total/NA	Solid	Moisture	
660-132958-6	SB6@2	Total/NA	Solid	Moisture	
660-132958-7	SB7@2	Total/NA	Solid	Moisture	
660-132958-4 DU	SB4@2	Total/NA	Solid	Moisture	

Analysis Batch: 63675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132958-1	SB1@2	Total/NA	Solid	Moisture	
660-132958-2	SB2@2	Total/NA	Solid	Moisture	
660-132958-3	SB3@2	Total/NA	Solid	Moisture	
670-28221-A-17 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB1@2

Date Collected: 11/13/23 08:40

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63675	11/16/23 12:14	RB	EET ORL

Client Sample ID: SB1@2

Date Collected: 11/13/23 08:40

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-1

Matrix: Solid

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.493 g	50 mL	63399	11/15/23 10:48	JR	EET ORL
Total/NA	Analysis	6020B		5			63637	11/15/23 16:08	JA	EET ORL

Client Sample ID: SB2@2

Date Collected: 11/13/23 08:50

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63675	11/16/23 12:14	RB	EET ORL

Client Sample ID: SB2@2

Date Collected: 11/13/23 08:50

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-2

Matrix: Solid

Percent Solids: 98.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.490 g	50 mL	63399	11/15/23 10:48	JR	EET ORL
Total/NA	Analysis	6020B		5			63637	11/15/23 16:10	JA	EET ORL

Client Sample ID: SB3@2

Date Collected: 11/13/23 09:00

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63675	11/16/23 12:14	RB	EET ORL

Client Sample ID: SB3@2

Date Collected: 11/13/23 09:00

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-3

Matrix: Solid

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.499 g	50 mL	63399	11/15/23 10:48	JR	EET ORL
Total/NA	Analysis	6020B		5			63637	11/15/23 16:13	JA	EET ORL

Client Sample ID: SB4@2

Date Collected: 11/13/23 09:10

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63667	11/16/23 11:44	RB	EET ORL

Eurofins Tampa

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Client Sample ID: SB4@2

Date Collected: 11/13/23 09:10

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-4

Matrix: Solid

Percent Solids: 25.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.500 g	50 mL	63399	11/15/23 10:48	JR	EET ORL
Total/NA	Analysis	6020B		5			63637	11/15/23 16:18	JA	EET ORL

Client Sample ID: SB5@2

Date Collected: 11/13/23 09:20

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63667	11/16/23 11:44	RB	EET ORL

Client Sample ID: SB5@2

Date Collected: 11/13/23 09:20

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-5

Matrix: Solid

Percent Solids: 31.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.492 g	50 mL	63399	11/15/23 10:48	JR	EET ORL
Total/NA	Analysis	6020B		5			63637	11/15/23 16:21	JA	EET ORL

Client Sample ID: SB6@2

Date Collected: 11/13/23 09:30

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63667	11/16/23 11:44	RB	EET ORL

Client Sample ID: SB6@2

Date Collected: 11/13/23 09:30

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-6

Matrix: Solid

Percent Solids: 12.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.495 g	50 mL	63399	11/15/23 10:48	JR	EET ORL
Total/NA	Analysis	6020B		5			63637	11/15/23 16:24	JA	EET ORL

Client Sample ID: SB7@2

Date Collected: 11/13/23 09:40

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132958-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63667	11/16/23 11:44	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc

Job ID: 660-132958-1

Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Client Sample ID: SB7@2

Lab Sample ID: 660-132958-7

Date Collected: 11/13/23 09:40

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 8.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.512 g	50 mL	63399	11/15/23 10:48	JR	EET ORL
Total/NA	Analysis	6020B		5			63637	11/15/23 16:27	JA	EET ORL

Laboratory References:

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3051A	Preparation, Metals, Microwave Assisted	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 28

Job ID: 660-132958-1

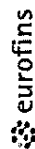
Laboratory: Eurofins Orlando

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	42800	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

Chain of Custody Record

660-Tampa



Environment Testing

Client Information		Lab PM:		Carrier Tracking No(s):		IOC No:			
Client Contact: Jessica Jordan		Pasipanki, Carlene				660-119224-38046.1			
Company: Aptim Environmental & Infrastructure Inc		E-Mail: carlene.pasipanki@et.eurofins.com		State of Origin:		Page 1 of 1			
Address: 725 US Highway 301 South		Due Date Requested:		Analysis Requested		Job #:			
City: Tampa		TAT Requested (days): 3-5 Day TAT				Preservation Codes:			
State, Zip: FL, 33619		Compliance Project: ☐ Yes ☒ No				A HCL M Hexane B NaOH N None C Zn Acetate P Na2O4S D Nitric Acid Q Na2SO3 E NaHSO4 R Na2S2O3 F MeOH S H2SO4 G Anichlor T TSP Dodecahydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4-5 K EDTA Y Trizma L EDA Z other (specify) Other			
Phone:		PO #:							
Email: Jessica.Jordan@aptim.com		WO #: 631025979							
Project Name: FDOT District 7 I-275 Soil Delineation Site 28		Project #: 66013579							
Site:		SSON#:							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=on-site, A=air)	Field Filtered Sample (Yes or No)	Perform MSMB (Yes or No)	6020B Arsenic	Total Number of Containers	Special Instructions/Note:
SB1e2	11/13/23	0840	G grab	Solid					
SB2e2		0850		Solid					
SB3e2		0900		Solid					
SB4e2		0910		Solid					
SB5e2		0920		Solid					
SB6e2		0930		Solid					
SB7e2		0940		Solid					
660-132958 Chain of Custody									
Loc: 660 132958									
660-132958 Chain of Custody									
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: ☐ I ☐ II ☐ III, IV ☐ Other (specify)									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months									
Special Instructions/QC Requirements:									
Empty Kit Relinquished by: Chad Ramey		Date: 11/14/23		Time: 08:00		Method of Shipment: Lab Courier		Company: Eurofins	
Relinquished by: Chad Ramey		Date/Time: 11/14/23 0800		Company: Aptim		Received by: AJA		Date/Time: 11/14/23 1200	
Relinquished by: AJA		Date/Time: 11/14/23 1250		Company: Eurofins		Received by: VBA		Date/Time: 11-14-23 1250	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 2.6/2.2					

6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone: 813-885-7427 Fax: 813-885-7049

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-132958-1

Login Number: 132958

List Source: Eurofins Tampa

List Number: 1

Creator: Grohman, Tina

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.	True	
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	



ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 11/22/2023 3:46:27 PM

JOB DESCRIPTION

FDOT District 7-1-275 Soil Delineation Site 34/48

JOB NUMBER

660-132957-1

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
11/22/2023 3:46:27 PM

Authorized for release by
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Luis.Betancourt@et.eurofinsus.com
Designee for
Carlene Pasipanki, Project Manager
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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-132957-1	SB1@4	Solid	11/13/23 10:10	11/14/23 12:50
660-132957-2	SB2@4	Solid	11/13/23 10:20	11/14/23 12:50
660-132957-3	SB3@4	Solid	11/13/23 10:30	11/14/23 12:50
660-132957-4	SB4@4	Solid	11/13/23 10:40	11/14/23 12:50
660-132957-5	SB5@4	Solid	11/13/23 10:50	11/14/23 12:50

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Client Sample ID: SB1@4

Lab Sample ID: 660-132957-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-Chlordane	2.2	I	77	1.9	ug/Kg	5	✱	8081B	Total/NA

Client Sample ID: SB2@4

Lab Sample ID: 660-132957-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.52	I	11	0.42	ug/Kg	1	✱	8081B	Total/NA

Client Sample ID: SB3@4

Lab Sample ID: 660-132957-3

No Detections.

Client Sample ID: SB4@4

Lab Sample ID: 660-132957-4

No Detections.

Client Sample ID: SB5@4

Lab Sample ID: 660-132957-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Job ID: 660-132957-1

Laboratory: Eurofins Tampa

Narrative

Job Narrative 660-132957-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/14/2023 12:50 PM. 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 time was 2.2°C

Pesticides

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

General Chemistry

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

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Qualifiers

GC 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.

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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Client Sample ID: SB1@4

Date Collected: 11/13/23 10:10

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-1

Matrix: Solid

Percent Solids: 22.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	3.0	U	77	3.0	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
alpha-BHC	2.3	U	77	2.3	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
beta-BHC	4.6	U	77	4.6	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
delta-BHC	2.2	U	77	2.2	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
gamma-BHC (Lindane)	1.4	U	150	1.4	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
4,4'-DDD	4.4	U	77	4.4	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
4,4'-DDE	2.9	U	77	2.9	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
4,4'-DDT	6.2	U	77	6.2	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Dieldrin	3.7	U	77	3.7	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Endosulfan I	2.6	U	77	2.6	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Endosulfan II	1.8	U	77	1.8	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Endrin	1.0	U	77	1.0	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Endrin aldehyde	5.8	U	150	5.8	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Heptachlor	2.7	U	77	2.7	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Heptachlor epoxide	4.7	U	77	4.7	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Methoxychlor	6.5	U	77	6.5	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Endosulfan sulfate	3.7	U	150	3.7	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Endrin ketone	1.1	U	150	1.1	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Toxaphene	110	U	230	110	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
Chlordane (technical)	79	U	230	79	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
alpha-Chlordane	2.2	I	77	1.9	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5
gamma-Chlordane	3.4	U	77	3.4	ug/Kg	✱	11/16/23 07:36	11/20/23 20:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	78		25 - 145	11/16/23 07:36	11/20/23 20:13	5
Tetrachloro-m-xylene	62		35 - 135	11/16/23 07:36	11/20/23 20:13	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Client Sample ID: SB2@4

Lab Sample ID: 660-132957-2

Date Collected: 11/13/23 10:20

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 30.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.43	U	11	0.43	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
alpha-BHC	0.34	U	11	0.34	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
beta-BHC	0.67	U	11	0.67	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
delta-BHC	0.33	U	11	0.33	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
gamma-BHC (Lindane)	0.20	U	22	0.20	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
4,4'-DDD	0.64	U	11	0.64	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
4,4'-DDE	0.52	I	11	0.42	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
4,4'-DDT	0.90	U	11	0.90	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Dieldrin	0.54	U	11	0.54	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Endosulfan I	0.37	U	11	0.37	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Endosulfan II	0.27	U	11	0.27	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Endrin	0.15	U	11	0.15	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Endrin aldehyde	0.85	U	22	0.85	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Heptachlor	0.40	U	11	0.40	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Heptachlor epoxide	0.68	U	11	0.68	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Methoxychlor	0.95	U	11	0.95	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Endosulfan sulfate	0.54	U	22	0.54	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Endrin ketone	0.16	U	22	0.16	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Toxaphene	16	U	33	16	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Chlordane (technical)	11	U	33	11	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
alpha-Chlordane	0.27	U	11	0.27	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
gamma-Chlordane	0.50	U	11	0.50	ug/Kg	✱	11/16/23 07:36	11/20/23 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		25 - 145				11/16/23 07:36	11/20/23 20:28	1
Tetrachloro-m-xylene	42		35 - 135				11/16/23 07:36	11/20/23 20:28	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Client Sample ID: SB3@4

Lab Sample ID: 660-132957-3

Date Collected: 11/13/23 10:30

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 22.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.58	U	15	0.58	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
alpha-BHC	0.45	U	15	0.45	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
beta-BHC	0.90	U	15	0.90	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
delta-BHC	0.44	U	15	0.44	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
gamma-BHC (Lindane)	0.27	U	30	0.27	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
4,4'-DDD	0.86	U	15	0.86	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
4,4'-DDE	0.57	U	15	0.57	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
4,4'-DDT	1.2	U	15	1.2	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Dieldrin	0.72	U	15	0.72	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Endosulfan I	0.50	U	15	0.50	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Endosulfan II	0.36	U	15	0.36	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Endrin	0.20	U	15	0.20	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Endrin aldehyde	1.1	U	30	1.1	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Heptachlor	0.53	U	15	0.53	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Heptachlor epoxide	0.91	U	15	0.91	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Methoxychlor	1.3	U	15	1.3	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Endosulfan sulfate	0.73	U	30	0.73	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Endrin ketone	0.22	U	30	0.22	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Toxaphene	21	U	44	21	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
Chlordane (technical)	15	U	44	15	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
alpha-Chlordane	0.36	U	15	0.36	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1
gamma-Chlordane	0.67	U	15	0.67	ug/Kg	✱	11/16/23 07:36	11/20/23 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		25 - 145	11/16/23 07:36	11/20/23 20:44	1
Tetrachloro-m-xylene	65		35 - 135	11/16/23 07:36	11/20/23 20:44	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Client Sample ID: SB4@4

Lab Sample ID: 660-132957-4

Date Collected: 11/13/23 10:40

Matrix: Solid

Date Received: 11/14/23 12:50

Percent Solids: 74.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.89	U	23	0.89	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
alpha-BHC	0.69	U	23	0.69	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
beta-BHC	1.4	U	23	1.4	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
delta-BHC	0.67	U	23	0.67	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
gamma-BHC (Lindane)	0.42	U	46	0.42	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
4,4'-DDD	1.3	U	23	1.3	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
4,4'-DDE	0.87	U	23	0.87	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
4,4'-DDT	1.9	U	23	1.9	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Dieldrin	1.1	U	23	1.1	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Endosulfan I	0.77	U	23	0.77	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Endosulfan II	0.55	U	23	0.55	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Endrin	0.31	U	23	0.31	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Endrin aldehyde	1.7	U	46	1.7	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Heptachlor	0.82	U	23	0.82	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Heptachlor epoxide	1.4	U	23	1.4	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Methoxychlor	2.0	U	23	2.0	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Endosulfan sulfate	1.1	U	46	1.1	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Endrin ketone	0.33	U	46	0.33	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Toxaphene	32	U	68	32	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
Chlordane (technical)	24	U	68	24	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
alpha-Chlordane	0.56	U	23	0.56	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5
gamma-Chlordane	1.0	U	23	1.0	ug/Kg	✱	11/16/23 07:36	11/20/23 21:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		25 - 145	11/16/23 07:36	11/20/23 21:00	5
Tetrachloro-m-xylene	40		35 - 135	11/16/23 07:36	11/20/23 21:00	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Client Sample ID: SB5@4

Date Collected: 11/13/23 10:50

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-5

Matrix: Solid

Percent Solids: 9.9

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.3	U	34	1.3	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
alpha-BHC	1.0	U	34	1.0	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
beta-BHC	2.1	U	34	2.1	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
delta-BHC	1.0	U	34	1.0	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
gamma-BHC (Lindane)	0.62	U	69	0.62	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
4,4'-DDD	2.0	U	34	2.0	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
4,4'-DDE	1.3	U	34	1.3	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
4,4'-DDT	2.8	U	34	2.8	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Dieldrin	1.7	U	34	1.7	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Endosulfan I	1.2	U	34	1.2	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Endosulfan II	0.82	U	34	0.82	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Endrin	0.46	U	34	0.46	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Endrin aldehyde	2.6	U	69	2.6	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Heptachlor	1.2	U	34	1.2	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Heptachlor epoxide	2.1	U	34	2.1	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Methoxychlor	2.9	U	34	2.9	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Endosulfan sulfate	1.7	U	69	1.7	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Endrin ketone	0.50	U	69	0.50	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Toxaphene	48	U	100	48	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
Chlordane (technical)	35	U	100	35	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
alpha-Chlordane	0.84	U	34	0.84	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1
gamma-Chlordane	1.5	U	34	1.5	ug/Kg	✱	11/16/23 07:36	11/20/23 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		25 - 145	11/16/23 07:36	11/20/23 21:16	1
Tetrachloro-m-xylene	82		35 - 135	11/16/23 07:36	11/20/23 21:16	1

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 670-63594/1-A

Matrix: Solid

Analysis Batch: 64237

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63594

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.13	U	3.4	0.13	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
alpha-BHC	0.10	U	3.4	0.10	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
beta-BHC	0.20	U	3.4	0.20	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
delta-BHC	0.10	U	3.4	0.10	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
gamma-BHC (Lindane)	0.062	U	6.8	0.062	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
4,4'-DDD	0.20	U	3.4	0.20	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
4,4'-DDE	0.13	U	3.4	0.13	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
4,4'-DDT	0.28	U	3.4	0.28	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Dieldrin	0.16	U	3.4	0.16	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Endosulfan I	0.11	U	3.4	0.11	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Endosulfan II	0.082	U	3.4	0.082	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Endrin	0.046	U	3.4	0.046	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Endrin aldehyde	0.26	U	6.8	0.26	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Heptachlor	0.12	U	3.4	0.12	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Heptachlor epoxide	0.21	U	3.4	0.21	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Methoxychlor	0.29	U	3.4	0.29	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Endosulfan sulfate	0.17	U	6.8	0.17	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Endrin ketone	0.049	U	6.8	0.049	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Toxaphene	4.7	U	10	4.7	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
Chlordane (technical)	3.5	U	10	3.5	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
alpha-Chlordane	0.083	U	3.4	0.083	ug/Kg		11/16/23 07:36	11/20/23 18:53	1
gamma-Chlordane	0.15	U	3.4	0.15	ug/Kg		11/16/23 07:36	11/20/23 18:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	123		25 - 145	11/16/23 07:36	11/20/23 18:53	1
Tetrachloro-m-xylene	132		35 - 135	11/16/23 07:36	11/20/23 18:53	1

Lab Sample ID: LCS 670-63594/2-A

Matrix: Solid

Analysis Batch: 64237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	12.5	12.9		ug/Kg		103	48 - 170
gamma-Chlordane	12.5	13.4		ug/Kg		107	45 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	113		25 - 145
Tetrachloro-m-xylene	108		35 - 135

Lab Sample ID: 670-30363-A-19-A MS

Matrix: Solid

Analysis Batch: 64237

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63594

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.083	U	12.6	11.9		ug/Kg	☼	94	45 - 170
gamma-Chlordane	0.15	U	12.6	8.58		ug/Kg	☼	68	43 - 170

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QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 670-30363-A-19-A MS

Matrix: Solid

Analysis Batch: 64237

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 63594

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	72		25 - 145
Tetrachloro-m-xylene	71		35 - 135

Lab Sample ID: 670-30363-A-19-B MSD

Matrix: Solid

Analysis Batch: 64237

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 63594

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha-Chlordane	0.083	U	12.6	11.5		ug/Kg	⊛	91	45 - 170	4	30
gamma-Chlordane	0.15	U	12.6	8.73		ug/Kg	⊛	69	43 - 170	2	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	98		25 - 145
Tetrachloro-m-xylene	85		35 - 135

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

GC Semi VOA

Prep Batch: 63594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132957-1	SB1@4	Total/NA	Solid	3546	
660-132957-2	SB2@4	Total/NA	Solid	3546	
660-132957-3	SB3@4	Total/NA	Solid	3546	
660-132957-4	SB4@4	Total/NA	Solid	3546	
660-132957-5	SB5@4	Total/NA	Solid	3546	
MB 670-63594/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-63594/2-A	Lab Control Sample	Total/NA	Solid	3546	
670-30363-A-19-A MS	Matrix Spike	Total/NA	Solid	3546	
670-30363-A-19-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 64237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132957-1	SB1@4	Total/NA	Solid	8081B	63594
660-132957-2	SB2@4	Total/NA	Solid	8081B	63594
660-132957-3	SB3@4	Total/NA	Solid	8081B	63594
660-132957-4	SB4@4	Total/NA	Solid	8081B	63594
660-132957-5	SB5@4	Total/NA	Solid	8081B	63594
MB 670-63594/1-A	Method Blank	Total/NA	Solid	8081B	63594
LCS 670-63594/2-A	Lab Control Sample	Total/NA	Solid	8081B	63594
670-30363-A-19-A MS	Matrix Spike	Total/NA	Solid	8081B	63594
670-30363-A-19-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	63594

General Chemistry

Analysis Batch: 63667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132957-1	SB1@4	Total/NA	Solid	Moisture	
660-132957-2	SB2@4	Total/NA	Solid	Moisture	
660-132957-3	SB3@4	Total/NA	Solid	Moisture	
660-132957-5	SB5@4	Total/NA	Solid	Moisture	
660-132958-A-4 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 64647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-132957-4	SB4@4	Total/NA	Solid	Moisture	
185-669-C-29 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Client Sample ID: SB1@4

Date Collected: 11/13/23 10:10

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63667	11/16/23 11:44	RB	EET ORL

Client Sample ID: SB1@4

Date Collected: 11/13/23 10:10

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-1

Matrix: Solid

Percent Solids: 22.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63594	11/16/23 07:36	YM	EET ORL
Total/NA	Analysis	8081B		5			64237	11/20/23 20:13	FC	EET ORL

Client Sample ID: SB2@4

Date Collected: 11/13/23 10:20

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63667	11/16/23 11:44	RB	EET ORL

Client Sample ID: SB2@4

Date Collected: 11/13/23 10:20

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-2

Matrix: Solid

Percent Solids: 30.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63594	11/16/23 07:36	YM	EET ORL
Total/NA	Analysis	8081B		1			64237	11/20/23 20:28	FC	EET ORL

Client Sample ID: SB3@4

Date Collected: 11/13/23 10:30

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63667	11/16/23 12:09	RB	EET ORL

Client Sample ID: SB3@4

Date Collected: 11/13/23 10:30

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-3

Matrix: Solid

Percent Solids: 22.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63594	11/16/23 07:36	YM	EET ORL
Total/NA	Analysis	8081B		1			64237	11/20/23 20:44	FC	EET ORL

Client Sample ID: SB4@4

Date Collected: 11/13/23 10:40

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64647	11/22/23 10:01	JA	EET ORL

Eurofins Tampa

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Client Sample ID: SB4@4

Date Collected: 11/13/23 10:40

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-4

Matrix: Solid

Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63594	11/16/23 07:36	YM	EET ORL
Total/NA	Analysis	8081B		5			64237	11/20/23 21:00	FC	EET ORL

Client Sample ID: SB5@4

Date Collected: 11/13/23 10:50

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			63667	11/16/23 11:44	RB	EET ORL

Client Sample ID: SB5@4

Date Collected: 11/13/23 10:50

Date Received: 11/14/23 12:50

Lab Sample ID: 660-132957-5

Matrix: Solid

Percent Solids: 9.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63594	11/16/23 07:36	YM	EET ORL
Total/NA	Analysis	8081B		1			64237	11/20/23 21:16	FC	EET ORL

Laboratory References:

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-132957-1

Laboratory: Eurofins Orlando

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	42800	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-132957-1

Login Number: 132957

List Number: 1

Creator: Grohman, Tina

List Source: Eurofins Tampa

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.	True	
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	



ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 11/27/2023 2:28:12 PM

JOB DESCRIPTION

FDOT District 7-1-275 Soil Delineation Site 34/48

JOB NUMBER

660-133033-1

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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11/27/2023 2:28:12 PM

Authorized for release by
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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-133033-1	SB6@4	Solid	11/14/23 09:20	11/16/23 10:40
660-133033-2	SB7@4	Solid	11/14/23 09:35	11/16/23 10:40
660-133033-3	SB8@4	Solid	11/14/23 09:40	11/16/23 10:40
660-133033-4	SB9@4	Solid	11/14/23 09:50	11/16/23 10:40
660-133033-5	SB10@4	Solid	11/14/23 10:05	11/16/23 10:40
660-133033-6	SB11@4	Solid	11/14/23 10:20	11/16/23 10:40
660-133033-7	SB12@4	Solid	11/14/23 10:30	11/16/23 10:40
660-133033-8	SB13@4	Solid	11/14/23 10:40	11/16/23 10:40
660-133033-9	SB14@4	Solid	11/14/23 10:50	11/16/23 10:40
660-133033-10	SB15@4	Solid	11/14/23 11:15	11/16/23 10:40
660-133033-11	SB16@4	Solid	11/14/23 11:25	11/16/23 10:40
660-133033-12	SB17@4	Solid	11/14/23 11:35	11/16/23 10:40
660-133033-13	SB18@4	Solid	11/14/23 11:45	11/16/23 10:40
660-133033-14	SB19@4	Solid	11/14/23 12:00	11/16/23 10:40

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB6@4

Lab Sample ID: 660-133033-1

No Detections.

Client Sample ID: SB7@4

Lab Sample ID: 660-133033-2

No Detections.

Client Sample ID: SB8@4

Lab Sample ID: 660-133033-3

No Detections.

Client Sample ID: SB9@4

Lab Sample ID: 660-133033-4

No Detections.

Client Sample ID: SB10@4

Lab Sample ID: 660-133033-5

No Detections.

Client Sample ID: SB11@4

Lab Sample ID: 660-133033-6

No Detections.

Client Sample ID: SB12@4

Lab Sample ID: 660-133033-7

No Detections.

Client Sample ID: SB13@4

Lab Sample ID: 660-133033-8

No Detections.

Client Sample ID: SB14@4

Lab Sample ID: 660-133033-9

No Detections.

Client Sample ID: SB15@4

Lab Sample ID: 660-133033-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Dieldrin	10	I	18	0.87	ug/Kg	5	✱		8081B	Total/NA
Chlordane (technical)	70		53	19	ug/Kg	5	✱		8081B	Total/NA
alpha-Chlordane	11	I	18	0.44	ug/Kg	5	✱		8081B	Total/NA
gamma-Chlordane	20		18	0.81	ug/Kg	5	✱		8081B	Total/NA

Client Sample ID: SB16@4

Lab Sample ID: 660-133033-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
4,4'-DDD	0.61	I	3.9	0.22	ug/Kg	1	✱		8081B	Total/NA
4,4'-DDE	1.2	I	3.9	0.15	ug/Kg	1	✱		8081B	Total/NA
4,4'-DDT	33		3.9	0.32	ug/Kg	1	✱		8081B	Total/NA
Chlordane (technical)	11		11	4.0	ug/Kg	1	✱		8081B	Total/NA
alpha-Chlordane	1.1	I	3.9	0.095	ug/Kg	1	✱		8081B	Total/NA
gamma-Chlordane	1.5	I	3.9	0.17	ug/Kg	1	✱		8081B	Total/NA

Client Sample ID: SB17@4

Lab Sample ID: 660-133033-12

No Detections.

Client Sample ID: SB18@4

Lab Sample ID: 660-133033-13

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB19@4

Lab Sample ID: 660-133033-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	2.0	I	7.6	0.62	ug/Kg	2	✱	8081B	Total/NA
alpha-Chlordane	1.5	I	7.6	0.18	ug/Kg	2	✱	8081B	Total/NA
gamma-Chlordane	2.0	I	7.6	0.34	ug/Kg	2	✱	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Job ID: 660-133033-1

Laboratory: Eurofins Tampa

Narrative

Job Narrative 660-133033-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/16/2023 10:40 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 time was 1.6°C

Pesticides

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

General Chemistry

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

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Qualifiers

GC 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.

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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB6@4

Lab Sample ID: 660-133033-1

Date Collected: 11/14/23 09:20

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 80.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.82	U	21	0.82	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
alpha-BHC	0.64	U	21	0.64	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
beta-BHC	1.3	U	21	1.3	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
delta-BHC	0.62	U	21	0.62	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
gamma-BHC (Lindane)	0.38	U	42	0.38	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
4,4'-DDD	1.2	U	21	1.2	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
4,4'-DDE	0.80	U	21	0.80	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
4,4'-DDT	1.7	U	21	1.7	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Dieldrin	1.0	U	21	1.0	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Endosulfan I	0.71	U	21	0.71	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Endosulfan II	0.51	U	21	0.51	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Endrin	0.28	U	21	0.28	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Endrin aldehyde	1.6	U	42	1.6	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Heptachlor	0.76	U	21	0.76	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Heptachlor epoxide	1.3	U	21	1.3	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Methoxychlor	1.8	U	21	1.8	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Endosulfan sulfate	1.0	U	42	1.0	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Endrin ketone	0.31	U	42	0.31	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Toxaphene	30	U	62	30	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Chlordane (technical)	22	U	62	22	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
alpha-Chlordane	0.52	U	21	0.52	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
gamma-Chlordane	0.95	U	21	0.95	ug/Kg	✱	11/17/23 10:29	11/22/23 15:18	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		25 - 145				11/17/23 10:29	11/22/23 15:18	5
Tetrachloro-m-xylene	67		35 - 135				11/17/23 10:29	11/22/23 15:18	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB7@4

Lab Sample ID: 660-133033-2

Date Collected: 11/14/23 09:35

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 87.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.76	U	19	0.76	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
alpha-BHC	0.59	U	19	0.59	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
beta-BHC	1.2	U	19	1.2	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
delta-BHC	0.57	U	19	0.57	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
gamma-BHC (Lindane)	0.35	U	39	0.35	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
4,4'-DDD	1.1	U	19	1.1	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
4,4'-DDE	0.74	U	19	0.74	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
4,4'-DDT	1.6	U	19	1.6	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Dieldrin	0.94	U	19	0.94	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Endosulfan I	0.65	U	19	0.65	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Endosulfan II	0.47	U	19	0.47	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Endrin	0.26	U	19	0.26	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Endrin aldehyde	1.5	U	39	1.5	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Heptachlor	0.69	U	19	0.69	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Heptachlor epoxide	1.2	U	19	1.2	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Methoxychlor	1.7	U	19	1.7	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Endosulfan sulfate	0.95	U	39	0.95	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Endrin ketone	0.28	U	39	0.28	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Toxaphene	27	U	57	27	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
Chlordane (technical)	20	U	57	20	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
alpha-Chlordane	0.47	U	19	0.47	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5
gamma-Chlordane	0.87	U	19	0.87	ug/Kg	✱	11/17/23 10:29	11/22/23 15:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		25 - 145	11/17/23 10:29	11/22/23 15:33	5
Tetrachloro-m-xylene	49		35 - 135	11/17/23 10:29	11/22/23 15:33	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB8@4

Lab Sample ID: 660-133033-3

Date Collected: 11/14/23 09:40

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 82.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.16	U	4.1	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
alpha-BHC	0.13	U	4.1	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
beta-BHC	0.25	U	4.1	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
delta-BHC	0.12	U	4.1	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
gamma-BHC (Lindane)	0.075	U	8.3	0.075	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
4,4'-DDD	0.24	U	4.1	0.24	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
4,4'-DDE	0.16	U	4.1	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
4,4'-DDT	0.34	U	4.1	0.34	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Dieldrin	0.20	U	4.1	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Endosulfan I	0.14	U	4.1	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Endosulfan II	0.099	U	4.1	0.099	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Endrin	0.056	U	4.1	0.056	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Endrin aldehyde	0.32	U	8.3	0.32	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Heptachlor	0.15	U	4.1	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Heptachlor epoxide	0.25	U	4.1	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Methoxychlor	0.35	U	4.1	0.35	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Endosulfan sulfate	0.20	U	8.3	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Endrin ketone	0.060	U	8.3	0.060	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Toxaphene	5.8	U	12	5.8	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
Chlordane (technical)	4.3	U	12	4.3	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
alpha-Chlordane	0.10	U	4.1	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1
gamma-Chlordane	0.19	U	4.1	0.19	ug/Kg	✱	11/17/23 10:29	11/22/23 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	142		25 - 145	11/17/23 10:29	11/22/23 15:48	1
Tetrachloro-m-xylene	84		35 - 135	11/17/23 10:29	11/22/23 15:48	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB9@4

Lab Sample ID: 660-133033-4

Date Collected: 11/14/23 09:50

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 82.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.16	U	4.1	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
alpha-BHC	0.12	U	4.1	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
beta-BHC	0.25	U	4.1	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
delta-BHC	0.12	U	4.1	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
gamma-BHC (Lindane)	0.074	U	8.2	0.074	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
4,4'-DDD	0.24	U	4.1	0.24	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
4,4'-DDE	0.16	U	4.1	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
4,4'-DDT	0.33	U	4.1	0.33	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Dieldrin	0.20	U	4.1	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Endosulfan I	0.14	U	4.1	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Endosulfan II	0.098	U	4.1	0.098	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Endrin	0.055	U	4.1	0.055	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Endrin aldehyde	0.31	U	8.2	0.31	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Heptachlor	0.15	U	4.1	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Heptachlor epoxide	0.25	U	4.1	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Methoxychlor	0.35	U	4.1	0.35	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Endosulfan sulfate	0.20	U	8.2	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Endrin ketone	0.059	U	8.2	0.059	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Toxaphene	5.7	U	12	5.7	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
Chlordane (technical)	4.2	U	12	4.2	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
alpha-Chlordane	0.10	U	4.1	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1
gamma-Chlordane	0.18	U	4.1	0.18	ug/Kg	✱	11/17/23 10:29	11/22/23 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		25 - 145	11/17/23 10:29	11/22/23 15:03	1
Tetrachloro-m-xylene	67		35 - 135	11/17/23 10:29	11/22/23 15:03	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB10@4

Lab Sample ID: 660-133033-5

Date Collected: 11/14/23 10:05

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 77.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.17	U	4.4	0.17	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
alpha-BHC	0.13	U	4.4	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
beta-BHC	0.27	U	4.4	0.27	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
delta-BHC	0.13	U	4.4	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
gamma-BHC (Lindane)	0.080	U	8.8	0.080	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
4,4'-DDD	0.25	U	4.4	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
4,4'-DDE	0.17	U	4.4	0.17	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
4,4'-DDT	0.36	U	4.4	0.36	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Dieldrin	0.21	U	4.4	0.21	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Endosulfan I	0.15	U	4.4	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Endosulfan II	0.11	U	4.4	0.11	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Endrin	0.059	U	4.4	0.059	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Endrin aldehyde	0.34	U	8.8	0.34	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Heptachlor	0.16	U	4.4	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Heptachlor epoxide	0.27	U	4.4	0.27	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Methoxychlor	0.38	U	4.4	0.38	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Endosulfan sulfate	0.21	U	8.8	0.21	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Endrin ketone	0.064	U	8.8	0.064	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Toxaphene	6.2	U	13	6.2	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Chlordane (technical)	4.6	U	13	4.6	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
alpha-Chlordane	0.11	U	4.4	0.11	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
gamma-Chlordane	0.20	U	4.4	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	131		25 - 145				11/17/23 10:29	11/22/23 16:03	1
Tetrachloro-m-xylene	74		35 - 135				11/17/23 10:29	11/22/23 16:03	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB11@4

Lab Sample ID: 660-133033-6

Date Collected: 11/14/23 10:20

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 81.7

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.16	U	4.2	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
alpha-BHC	0.13	U	4.2	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
beta-BHC	0.25	U	4.2	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
delta-BHC	0.12	U	4.2	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
gamma-BHC (Lindane)	0.075	U	8.3	0.075	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
4,4'-DDD	0.24	U	4.2	0.24	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
4,4'-DDE	0.16	U	4.2	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
4,4'-DDT	0.34	U	4.2	0.34	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Dieldrin	0.20	U	4.2	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Endosulfan I	0.14	U	4.2	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Endosulfan II	0.10	U	4.2	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Endrin	0.056	U	4.2	0.056	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Endrin aldehyde	0.32	U	8.3	0.32	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Heptachlor	0.15	U	4.2	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Heptachlor epoxide	0.25	U	4.2	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Methoxychlor	0.35	U	4.2	0.35	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Endosulfan sulfate	0.20	U	8.3	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Endrin ketone	0.060	U	8.3	0.060	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Toxaphene	5.8	U	12	5.8	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
Chlordane (technical)	4.3	U	12	4.3	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
alpha-Chlordane	0.10	U	4.2	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1
gamma-Chlordane	0.19	U	4.2	0.19	ug/Kg	✱	11/17/23 10:29	11/22/23 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	114		25 - 145	11/17/23 10:29	11/22/23 16:18	1
Tetrachloro-m-xylene	72		35 - 135	11/17/23 10:29	11/22/23 16:18	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB12@4

Lab Sample ID: 660-133033-7

Date Collected: 11/14/23 10:30

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 79.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.17	U	4.3	0.17	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
alpha-BHC	0.13	U	4.3	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
beta-BHC	0.26	U	4.3	0.26	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
delta-BHC	0.13	U	4.3	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
gamma-BHC (Lindane)	0.078	U	8.6	0.078	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
4,4'-DDD	0.25	U	4.3	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
4,4'-DDE	0.16	U	4.3	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
4,4'-DDT	0.35	U	4.3	0.35	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Dieldrin	0.21	U	4.3	0.21	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Endosulfan I	0.14	U	4.3	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Endosulfan II	0.10	U	4.3	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Endrin	0.058	U	4.3	0.058	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Endrin aldehyde	0.33	U	8.6	0.33	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Heptachlor	0.15	U	4.3	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Heptachlor epoxide	0.26	U	4.3	0.26	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Methoxychlor	0.37	U	4.3	0.37	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Endosulfan sulfate	0.21	U	8.6	0.21	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Endrin ketone	0.062	U	8.6	0.062	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Toxaphene	6.0	U	13	6.0	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
Chlordane (technical)	4.4	U	13	4.4	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
alpha-Chlordane	0.10	U	4.3	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1
gamma-Chlordane	0.19	U	4.3	0.19	ug/Kg	✱	11/17/23 10:29	11/22/23 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	132		25 - 145	11/17/23 10:29	11/22/23 16:34	1
Tetrachloro-m-xylene	68		35 - 135	11/17/23 10:29	11/22/23 16:34	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB13@4

Lab Sample ID: 660-133033-8

Date Collected: 11/14/23 10:40

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 80.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.16	U	4.2	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
alpha-BHC	0.13	U	4.2	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
beta-BHC	0.26	U	4.2	0.26	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
delta-BHC	0.12	U	4.2	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
gamma-BHC (Lindane)	0.077	U	8.5	0.077	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
4,4'-DDD	0.24	U	4.2	0.24	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
4,4'-DDE	0.16	U	4.2	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
4,4'-DDT	0.34	U	4.2	0.34	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Dieldrin	0.20	U	4.2	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Endosulfan I	0.14	U	4.2	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Endosulfan II	0.10	U	4.2	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Endrin	0.057	U	4.2	0.057	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Endrin aldehyde	0.32	U	8.5	0.32	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Heptachlor	0.15	U	4.2	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Heptachlor epoxide	0.26	U	4.2	0.26	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Methoxychlor	0.36	U	4.2	0.36	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Endosulfan sulfate	0.21	U	8.5	0.21	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Endrin ketone	0.061	U	8.5	0.061	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Toxaphene	5.9	U	12	5.9	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
Chlordane (technical)	4.4	U	12	4.4	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
alpha-Chlordane	0.10	U	4.2	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1
gamma-Chlordane	0.19	U	4.2	0.19	ug/Kg	✱	11/17/23 10:29	11/22/23 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	118		25 - 145	11/17/23 10:29	11/22/23 16:49	1
Tetrachloro-m-xylene	69		35 - 135	11/17/23 10:29	11/22/23 16:49	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB14@4

Lab Sample ID: 660-133033-9

Date Collected: 11/14/23 10:50

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 82.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.16	U	4.1	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
alpha-BHC	0.12	U	4.1	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
beta-BHC	0.25	U	4.1	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
delta-BHC	0.12	U	4.1	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
gamma-BHC (Lindane)	0.074	U	8.2	0.074	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
4,4'-DDD	0.24	U	4.1	0.24	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
4,4'-DDE	0.16	U	4.1	0.16	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
4,4'-DDT	0.33	U	4.1	0.33	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Dieldrin	0.20	U	4.1	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Endosulfan I	0.14	U	4.1	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Endosulfan II	0.098	U	4.1	0.098	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Endrin	0.055	U	4.1	0.055	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Endrin aldehyde	0.31	U	8.2	0.31	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Heptachlor	0.15	U	4.1	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Heptachlor epoxide	0.25	U	4.1	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Methoxychlor	0.35	U	4.1	0.35	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Endosulfan sulfate	0.20	U	8.2	0.20	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Endrin ketone	0.059	U	8.2	0.059	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Toxaphene	5.7	U	12	5.7	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
Chlordane (technical)	4.2	U	12	4.2	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
alpha-Chlordane	0.10	U	4.1	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1
gamma-Chlordane	0.18	U	4.1	0.18	ug/Kg	✱	11/17/23 10:29	11/22/23 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	119		25 - 145	11/17/23 10:29	11/22/23 17:04	1
Tetrachloro-m-xylene	68		35 - 135	11/17/23 10:29	11/22/23 17:04	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB15@4

Lab Sample ID: 660-133033-10

Date Collected: 11/14/23 11:15

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 94.3

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.70	U	18	0.70	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
alpha-BHC	0.54	U	18	0.54	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
beta-BHC	1.1	U	18	1.1	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
delta-BHC	0.53	U	18	0.53	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
gamma-BHC (Lindane)	0.33	U	36	0.33	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
4,4'-DDD	1.0	U	18	1.0	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
4,4'-DDE	0.68	U	18	0.68	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
4,4'-DDT	1.5	U	18	1.5	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Dieldrin	10	I	18	0.87	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Endosulfan I	0.60	U	18	0.60	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Endosulfan II	0.43	U	18	0.43	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Endrin	0.24	U	18	0.24	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Endrin aldehyde	1.4	U	36	1.4	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Heptachlor	0.64	U	18	0.64	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Heptachlor epoxide	1.1	U	18	1.1	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Methoxychlor	1.5	U	18	1.5	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Endosulfan sulfate	0.88	U	36	0.88	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Endrin ketone	0.26	U	36	0.26	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Toxaphene	25	U	53	25	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
Chlordane (technical)	70		53	19	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
alpha-Chlordane	11	I	18	0.44	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5
gamma-Chlordane	20		18	0.81	ug/Kg	✱	11/17/23 10:29	11/22/23 17:19	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	52		25 - 145	11/17/23 10:29	11/22/23 17:19	5
Tetrachloro-m-xylene	63		35 - 135	11/17/23 10:29	11/22/23 17:19	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB16@4

Lab Sample ID: 660-133033-11

Date Collected: 11/14/23 11:25

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 87.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.15	U	3.9	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
alpha-BHC	0.12	U	3.9	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
beta-BHC	0.23	U	3.9	0.23	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
delta-BHC	0.11	U	3.9	0.11	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
gamma-BHC (Lindane)	0.071	U	7.8	0.071	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
4,4'-DDD	0.61	I	3.9	0.22	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
4,4'-DDE	1.2	I	3.9	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
4,4'-DDT	33		3.9	0.32	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Dieldrin	0.19	U	3.9	0.19	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Endosulfan I	0.13	U	3.9	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Endosulfan II	0.093	U	3.9	0.093	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Endrin	0.052	U	3.9	0.052	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Endrin aldehyde	0.30	U	7.8	0.30	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Heptachlor	0.14	U	3.9	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Heptachlor epoxide	0.24	U	3.9	0.24	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Methoxychlor	0.33	U	3.9	0.33	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Endosulfan sulfate	0.19	U	7.8	0.19	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Endrin ketone	0.056	U	7.8	0.056	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Toxaphene	5.4	U	11	5.4	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
Chlordane (technical)	11		11	4.0	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
alpha-Chlordane	1.1	I	3.9	0.095	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1
gamma-Chlordane	1.5	I	3.9	0.17	ug/Kg	✱	11/17/23 10:29	11/22/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		25 - 145	11/17/23 10:29	11/22/23 17:34	1
Tetrachloro-m-xylene	79		35 - 135	11/17/23 10:29	11/22/23 17:34	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB17@4

Lab Sample ID: 660-133033-12

Date Collected: 11/14/23 11:35

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 88.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.15	U	3.9	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
alpha-BHC	0.12	U	3.9	0.12	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
beta-BHC	0.23	U	3.9	0.23	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
delta-BHC	0.11	U	3.9	0.11	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
gamma-BHC (Lindane)	0.070	U	7.7	0.070	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
4,4'-DDD	0.22	U	3.9	0.22	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
4,4'-DDE	0.15	U	3.9	0.15	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
4,4'-DDT	0.31	U	3.9	0.31	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Dieldrin	0.19	U	3.9	0.19	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Endosulfan I	0.13	U	3.9	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Endosulfan II	0.093	U	3.9	0.093	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Endrin	0.052	U	3.9	0.052	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Endrin aldehyde	0.29	U	7.7	0.29	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Heptachlor	0.14	U	3.9	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Heptachlor epoxide	0.23	U	3.9	0.23	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Methoxychlor	0.33	U	3.9	0.33	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Endosulfan sulfate	0.19	U	7.7	0.19	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Endrin ketone	0.056	U	7.7	0.056	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Toxaphene	5.4	U	11	5.4	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
Chlordane (technical)	4.0	U	11	4.0	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
alpha-Chlordane	0.094	U	3.9	0.094	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1
gamma-Chlordane	0.17	U	3.9	0.17	ug/Kg	✱	11/17/23 10:29	11/22/23 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		25 - 145	11/17/23 10:29	11/22/23 17:49	1
Tetrachloro-m-xylene	65		35 - 135	11/17/23 10:29	11/22/23 17:49	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB18@4

Lab Sample ID: 660-133033-13

Date Collected: 11/14/23 11:45

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 92.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.29	U	7.3	0.29	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
alpha-BHC	0.22	U	7.3	0.22	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
beta-BHC	0.44	U	7.3	0.44	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
delta-BHC	0.22	U	7.3	0.22	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
gamma-BHC (Lindane)	0.13	U	15	0.13	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
4,4'-DDD	0.42	U	7.3	0.42	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
4,4'-DDE	0.28	U	7.3	0.28	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
4,4'-DDT	0.60	U	7.3	0.60	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Dieldrin	0.35	U	7.3	0.35	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Endosulfan I	0.25	U	7.3	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Endosulfan II	0.18	U	7.3	0.18	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Endrin	0.098	U	7.3	0.098	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Endrin aldehyde	0.56	U	15	0.56	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Heptachlor	0.26	U	7.3	0.26	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Heptachlor epoxide	0.45	U	7.3	0.45	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Methoxychlor	0.63	U	7.3	0.63	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Endosulfan sulfate	0.36	U	15	0.36	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Endrin ketone	0.11	U	15	0.11	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Toxaphene	10	U	22	10	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Chlordane (technical)	7.6	U	22	7.6	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
alpha-Chlordane	0.18	U	7.3	0.18	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
gamma-Chlordane	0.33	U	7.3	0.33	ug/Kg	✱	11/17/23 10:29	11/22/23 18:04	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		25 - 145				11/17/23 10:29	11/22/23 18:04	2
Tetrachloro-m-xylene	66		35 - 135				11/17/23 10:29	11/22/23 18:04	2

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB19@4

Lab Sample ID: 660-133033-14

Date Collected: 11/14/23 12:00

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 89.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.29	U	7.6	0.29	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
alpha-BHC	0.23	U	7.6	0.23	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
beta-BHC	0.46	U	7.6	0.46	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
delta-BHC	0.22	U	7.6	0.22	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
gamma-BHC (Lindane)	0.14	U	15	0.14	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
4,4'-DDD	0.44	U	7.6	0.44	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
4,4'-DDE	0.29	U	7.6	0.29	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
4,4'-DDT	2.0	I	7.6	0.62	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Dieldrin	0.37	U	7.6	0.37	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Endosulfan I	0.25	U	7.6	0.25	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Endosulfan II	0.18	U	7.6	0.18	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Endrin	0.10	U	7.6	0.10	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Endrin aldehyde	0.58	U	15	0.58	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Heptachlor	0.27	U	7.6	0.27	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Heptachlor epoxide	0.46	U	7.6	0.46	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Methoxychlor	0.65	U	7.6	0.65	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Endosulfan sulfate	0.37	U	15	0.37	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Endrin ketone	0.11	U	15	0.11	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Toxaphene	11	U	22	11	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
Chlordane (technical)	7.8	U	22	7.8	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
alpha-Chlordane	1.5	I	7.6	0.18	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2
gamma-Chlordane	2.0	I	7.6	0.34	ug/Kg	✱	11/17/23 10:29	11/22/23 18:19	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		25 - 145	11/17/23 10:29	11/22/23 18:19	2
Tetrachloro-m-xylene	75		35 - 135	11/17/23 10:29	11/22/23 18:19	2

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 670-63952/1-A

Matrix: Solid

Analysis Batch: 64650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63952

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.13	U	3.4	0.13	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
alpha-BHC	0.10	U	3.4	0.10	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
beta-BHC	0.20	U	3.4	0.20	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
delta-BHC	0.10	U	3.4	0.10	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
gamma-BHC (Lindane)	0.062	U	6.8	0.062	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
4,4'-DDD	0.20	U	3.4	0.20	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
4,4'-DDE	0.13	U	3.4	0.13	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
4,4'-DDT	0.28	U	3.4	0.28	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Dieldrin	0.16	U	3.4	0.16	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Endosulfan I	0.11	U	3.4	0.11	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Endosulfan II	0.082	U	3.4	0.082	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Endrin	0.046	U	3.4	0.046	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Endrin aldehyde	0.26	U	6.8	0.26	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Heptachlor	0.12	U	3.4	0.12	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Heptachlor epoxide	0.21	U	3.4	0.21	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Methoxychlor	0.29	U	3.4	0.29	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Endosulfan sulfate	0.17	U	6.8	0.17	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Endrin ketone	0.049	U	6.8	0.049	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Toxaphene	4.7	U	10	4.7	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Chlordane (technical)	3.5	U	10	3.5	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
alpha-Chlordane	0.083	U	3.4	0.083	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
gamma-Chlordane	0.15	U	3.4	0.15	ug/Kg		11/17/23 10:29	11/22/23 14:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	113		25 - 145				11/17/23 10:29	11/22/23 14:02	1
Tetrachloro-m-xylene	83		35 - 135				11/17/23 10:29	11/22/23 14:02	1

Lab Sample ID: LCS 670-63952/2-A

Matrix: Solid

Analysis Batch: 64650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 63952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	12.5	7.21		ug/Kg		58	48 - 170
gamma-Chlordane	12.5	8.07		ug/Kg		65	45 - 170
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	108		25 - 145				
Tetrachloro-m-xylene	79		35 - 135				

Lab Sample ID: 660-133033-4 MS

Matrix: Solid

Analysis Batch: 64650

Client Sample ID: SB9@4

Prep Type: Total/NA

Prep Batch: 63952

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.10	U	15.1	8.76		ug/Kg	☼	58	45 - 170
gamma-Chlordane	0.18	U	15.1	9.84		ug/Kg	☼	65	43 - 170

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QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 660-133033-4 MS

Matrix: Solid

Analysis Batch: 64650

Client Sample ID: SB9@4

Prep Type: Total/NA

Prep Batch: 63952

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	97		25 - 145
Tetrachloro-m-xylene	54		35 - 135

Lab Sample ID: 660-133033-4 MSD

Matrix: Solid

Analysis Batch: 64650

Client Sample ID: SB9@4

Prep Type: Total/NA

Prep Batch: 63952

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
alpha-Chlordane	0.10	U	15.1	9.13		ug/Kg	✱	60	45 - 170	4
gamma-Chlordane	0.18	U	15.1	9.96		ug/Kg	✱	66	43 - 170	1

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	93		25 - 145
Tetrachloro-m-xylene	53		35 - 135

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

GC Semi VOA

Prep Batch: 63952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133033-1	SB6@4	Total/NA	Solid	3546	
660-133033-2	SB7@4	Total/NA	Solid	3546	
660-133033-3	SB8@4	Total/NA	Solid	3546	
660-133033-4	SB9@4	Total/NA	Solid	3546	
660-133033-5	SB10@4	Total/NA	Solid	3546	
660-133033-6	SB11@4	Total/NA	Solid	3546	
660-133033-7	SB12@4	Total/NA	Solid	3546	
660-133033-8	SB13@4	Total/NA	Solid	3546	
660-133033-9	SB14@4	Total/NA	Solid	3546	
660-133033-10	SB15@4	Total/NA	Solid	3546	
660-133033-11	SB16@4	Total/NA	Solid	3546	
660-133033-12	SB17@4	Total/NA	Solid	3546	
660-133033-13	SB18@4	Total/NA	Solid	3546	
660-133033-14	SB19@4	Total/NA	Solid	3546	
MB 670-63952/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-63952/2-A	Lab Control Sample	Total/NA	Solid	3546	
660-133033-4 MS	SB9@4	Total/NA	Solid	3546	
660-133033-4 MSD	SB9@4	Total/NA	Solid	3546	

Analysis Batch: 64650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133033-1	SB6@4	Total/NA	Solid	8081B	63952
660-133033-2	SB7@4	Total/NA	Solid	8081B	63952
660-133033-3	SB8@4	Total/NA	Solid	8081B	63952
660-133033-4	SB9@4	Total/NA	Solid	8081B	63952
660-133033-5	SB10@4	Total/NA	Solid	8081B	63952
660-133033-6	SB11@4	Total/NA	Solid	8081B	63952
660-133033-7	SB12@4	Total/NA	Solid	8081B	63952
660-133033-8	SB13@4	Total/NA	Solid	8081B	63952
660-133033-9	SB14@4	Total/NA	Solid	8081B	63952
660-133033-10	SB15@4	Total/NA	Solid	8081B	63952
660-133033-11	SB16@4	Total/NA	Solid	8081B	63952
660-133033-12	SB17@4	Total/NA	Solid	8081B	63952
660-133033-13	SB18@4	Total/NA	Solid	8081B	63952
660-133033-14	SB19@4	Total/NA	Solid	8081B	63952
MB 670-63952/1-A	Method Blank	Total/NA	Solid	8081B	63952
LCS 670-63952/2-A	Lab Control Sample	Total/NA	Solid	8081B	63952
660-133033-4 MS	SB9@4	Total/NA	Solid	8081B	63952
660-133033-4 MSD	SB9@4	Total/NA	Solid	8081B	63952

General Chemistry

Analysis Batch: 64261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133033-1	SB6@4	Total/NA	Solid	Moisture	
762-2860-D-2 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 64270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133033-5	SB10@4	Total/NA	Solid	Moisture	
660-133033-6	SB11@4	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

General Chemistry (Continued)

Analysis Batch: 64270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133033-7	SB12@4	Total/NA	Solid	Moisture	
660-133033-8	SB13@4	Total/NA	Solid	Moisture	
660-133033-9	SB14@4	Total/NA	Solid	Moisture	
660-133033-10	SB15@4	Total/NA	Solid	Moisture	
660-133033-11	SB16@4	Total/NA	Solid	Moisture	
660-133033-12	SB17@4	Total/NA	Solid	Moisture	
660-133033-13	SB18@4	Total/NA	Solid	Moisture	
660-133033-14	SB19@4	Total/NA	Solid	Moisture	
660-133033-5 DU	SB10@4	Total/NA	Solid	Moisture	

Analysis Batch: 64271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133033-2	SB7@4	Total/NA	Solid	Moisture	
660-133033-3	SB8@4	Total/NA	Solid	Moisture	
660-133033-4	SB9@4	Total/NA	Solid	Moisture	
660-133038-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB6@4

Date Collected: 11/14/23 09:20

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64261	11/20/23 11:14	RB	EET ORL

Client Sample ID: SB6@4

Date Collected: 11/14/23 09:20

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-1

Matrix: Solid

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		5			64650	11/22/23 15:18	FC	EET ORL

Client Sample ID: SB7@4

Date Collected: 11/14/23 09:35

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB7@4

Date Collected: 11/14/23 09:35

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-2

Matrix: Solid

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		5			64650	11/22/23 15:33	FC	EET ORL

Client Sample ID: SB8@4

Date Collected: 11/14/23 09:40

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB8@4

Date Collected: 11/14/23 09:40

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-3

Matrix: Solid

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 15:48	FC	EET ORL

Client Sample ID: SB9@4

Date Collected: 11/14/23 09:50

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

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Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB9@4

Date Collected: 11/14/23 09:50

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-4

Matrix: Solid

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 15:03	FC	EET ORL

Client Sample ID: SB10@4

Date Collected: 11/14/23 10:05

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB10@4

Date Collected: 11/14/23 10:05

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-5

Matrix: Solid

Percent Solids: 77.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 16:03	FC	EET ORL

Client Sample ID: SB11@4

Date Collected: 11/14/23 10:20

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB11@4

Date Collected: 11/14/23 10:20

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-6

Matrix: Solid

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 16:18	FC	EET ORL

Client Sample ID: SB12@4

Date Collected: 11/14/23 10:30

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB12@4

Date Collected: 11/14/23 10:30

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-7

Matrix: Solid

Percent Solids: 79.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 16:34	FC	EET ORL

Client Sample ID: SB13@4

Date Collected: 11/14/23 10:40

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB13@4

Date Collected: 11/14/23 10:40

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-8

Matrix: Solid

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 16:49	FC	EET ORL

Client Sample ID: SB14@4

Date Collected: 11/14/23 10:50

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB14@4

Date Collected: 11/14/23 10:50

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-9

Matrix: Solid

Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 17:04	FC	EET ORL

Client Sample ID: SB15@4

Date Collected: 11/14/23 11:15

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133033-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB15@4

Lab Sample ID: 660-133033-10

Date Collected: 11/14/23 11:15

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 94.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		5			64650	11/22/23 17:19	FC	EET ORL

Client Sample ID: SB16@4

Lab Sample ID: 660-133033-11

Date Collected: 11/14/23 11:25

Matrix: Solid

Date Received: 11/16/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB16@4

Lab Sample ID: 660-133033-11

Date Collected: 11/14/23 11:25

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 17:34	FC	EET ORL

Client Sample ID: SB17@4

Lab Sample ID: 660-133033-12

Date Collected: 11/14/23 11:35

Matrix: Solid

Date Received: 11/16/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB17@4

Lab Sample ID: 660-133033-12

Date Collected: 11/14/23 11:35

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		1			64650	11/22/23 17:49	FC	EET ORL

Client Sample ID: SB18@4

Lab Sample ID: 660-133033-13

Date Collected: 11/14/23 11:45

Matrix: Solid

Date Received: 11/16/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Client Sample ID: SB18@4

Lab Sample ID: 660-133033-13

Date Collected: 11/14/23 11:45

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		2			64650	11/22/23 18:04	FC	EET ORL

Client Sample ID: SB19@4

Lab Sample ID: 660-133033-14

Date Collected: 11/14/23 12:00

Matrix: Solid

Date Received: 11/16/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB19@4

Lab Sample ID: 660-133033-14

Date Collected: 11/14/23 12:00

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	63952	11/17/23 10:29	YM	EET ORL
Total/NA	Analysis	8081B		2			64650	11/22/23 18:19	FC	EET ORL

Laboratory References:

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133033-1

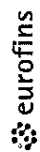
Laboratory: Eurofins Orlando

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	42800	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

Chain of Custody Record

660-Tampa



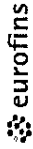
Environment Testing

Client Information		Lab Pw: Paspanski Carlene		Carrier Tracking No(s): 660-119238-38051.5							
Client Contact: Chad Ramey		Phone: 813-981-4132		Page: Page 5 of 5							
Company: Aptim Environmental & Infrastructure Inc		E-Mail: carlene.paspanski@et.eurofins.com		Job #:							
Address: 725 US Highway 301 South		Due Date Requested:		Analysis Requested							
City: Tampa		TAT Requested (days): 3-5 Day TAT		Preservation Codes:							
State, Zip: FL, 33619		Compliance Project: ☐ Yes ☒ No		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Anichlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other							
Phone:		PO #:		M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2SO4 S H2SO4 T TSP Dodecalhydrate U Acetone V MCAA W PH 4-5 X Thima Y Thima Z other (specify)							
Email: chad.ramey@aptim.com		WO #: 631025979		Total Number of Containers							
Project Name: FDOT District 7-1-275 Soil Delineation Site34/48		Project #: 66013579		Special Instructions/Note:							
Site:		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Inwater, Swsolid, Onsolid, Soil, Other)	Field Filled Sample (Yes or No)	8081B Pesticides	Performs MS/MSD (Yes or No)	Loc: 660 133033	Barcode	660-133033 Chain of Custody
SB6e4	11/14/23	0920	6:06	Solid	Solid	N	X	X			
SB7e4		0935		Solid	Solid	X	X	X			
SB8e4		0940		Solid	Solid	X	X	X			
SB9e4		0950				X	X	X			
SB10e4		1005				X	X	X			
SB11e4		1020				X	X	X			
SB12e4		1030				X	X	X			
SB13e4		1040				X	X	X			
SB14e4		1050				X	X	X			
SB15e4		1115				X	X	X			
SB16e4		1125				X	X	X			
Possible Hazard Identification		Poison B ☐ Unknown ☐ Radiological ☐		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Other (specify)		Deliverable Requested: I II III IV Other (specify)		☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months							
Empty Kit Relinquished by: Chad Ramey		Date: 11/15/23 Time: 0800		Method of Shipment: 133033							
Relinquished by: Chad Ramey		Date/Time: 11/15/23 0800		Date/Time: 11/16/23 10:10							
Relinquished by: AJA		Date/Time: 11/16/23 1040		Date/Time: 11-16-23 16:40							
Relinquished by:		Date/Time:		Date/Time:							
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 1.6 Celsius							

Client Information Client Contact: Chad Ramey Phone: 813-981-4132 E-Mail: carlene.pasipanki@et.eurofinsus.com		Lab PM: Pasipanki Carlene Carrier Tracking No(s): 660-119238-380511 Page: Page 1 of 5		Job #: Analysis Requested:	
Company: Aptim Environmental & Infrastructure Inc Address: 725 US Highway 301 South City: Tampa State: FL Zip: 33619 Phone: Email: chad.ramey@aptim.com Project Name: FDOT District 7-1-275 Soil Delineation Site34/48 Site:		Due Date Requested: TAT Requested (days): 3-5 Day TAT Compliance Project: ☐ Yes ☒ No PO #: WO #: 631025979 Project #: 66013579 SOW#:		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
Sample Identification SB1704 SB1804 SB1904		Sample Date 11/14/23 11/15/23 11/16/23		Sample Time 1135 1145 1200	
Sample Type G=grab 6grab I I		Matrix (Hewlett, Swallow, On-Site) Solid Solid Solid Solid		Field Filled Sample (Yes or No) N X X X	
Perform MS/MSD (Yes or No) N X X X		6081B Pesticides N X X X		Total Number of Containers X X X X	
Special Instructions/Note: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months		Special Instructions/QC Requirements:			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV Other (specify)		Date: NOV 08 2023 Time: 900			
Empty Kit Relinquished by: Chad Ramey Relinquished by: AJA Relinquished by:		Date: 11/15/23 0800 Date: 11/16/23 1040 Date:		Method of Shipment: Received by: AJA Received by: Received by:	
Custody Seals Intact: ☒ Yes ☐ No Relinquished by:		Cooler Temperature(s) °C and Other Remarks: 16 C/60F			

Chain of Custody Record

660-Tampa



Environment Testing

Client Information		Sampler: <u>Chad Ramey</u>		Lab PM: <u>Pasipanki Carlene</u>	Carrier Tracking No(s): <u>660-119238-38051.3</u>
Client Contact: <u>Chad Ramey</u>		Phone: <u>813-981-4132</u>	E-Mail: <u>carlene.pasipanki@et.eurofins.com</u>	State of Origin:	Page: <u>Page 3 of 5</u>
Company: <u>Aptim Environmental & Infrastructure Inc</u>		PWSID: _____			
Address: <u>725 US Highway 301 South</u>		Due Date Requested: _____			
City: <u>Tampa</u>		TAT Requested (days): <u>3-5 Day TAT</u>			
State, Zip: <u>FL, 33619</u>		Compliance Project: <u>Yes</u> ☐ <u>No</u> ☐			
Phone: _____		PO #: _____			
Email: <u>chad.ramey@aptim.com</u>		WO #: <u>631025979</u>			
Project Name: <u>FDOT District 7-1-275 Soil Delineation Site34/48</u>		Project #: <u>66013579</u>			
Site: _____		SSOW#: _____			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weather, Sealed, On-site, etc.)	Field Filled Sample (Yes or No)	8081B Pesticides	Analysis Requested	Preservation Codes:	Special Instructions/Note:
SB20E4	11/15/23	0900	Grob	Solid	N	X			
SB21E4		0910		Solid	N	X			
SB22E4		0920		Solid	N	X			
SB23E4		0930		Solid	N	X			
SB24E4		0940		Solid	N	X			
SB25E4		0950		Solid	N	X			
SB26E4		1020		Solid	N	X			
SB27E4		1030		Solid	N	X			
SB28E4		1040		Solid	N	X			
SB29E4		1050		Solid	N	X			
SB30E4		1100		Solid	N	X			

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I, II, III, IV Other (specify) _____			
Empty Kit Relinquished by: <u>Chad Ramey</u> Relinquished by: <u>Chad Ramey</u> Relinquished by: <u>AJA</u> Relinquished by: _____		Date: <u>NOV 08 2023</u> Time: <u>900</u> Method of Shipment: <u>Express</u> Date/Time: <u>11/16/23 1010</u> Company: <u>Eurofins</u> Date/Time: <u>11-16-23 1040</u> Company: <u>Eurofins</u> Date/Time: _____ Company: _____	
Custody Seals Intact: <u>Yes</u> ☐ <u>No</u> ☐		Cooler Temperature(s) °C and Other Remarks: <u>1-6 Ceu1209</u>	

[illegible]

Chain of Custody Record

660-Tampa

eurofins

Environment Testing

Client Information		Sampler		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Chad Ramey		Phone: 813-987-4132		Pasipanki, Carlene		State of Origin:		660-119238-38031.5	
Company: Aptim Environmental & Infrastructure Inc		Address: 725 US Highway 301 South		E-Mail: carlene.pasipanki@et.eurofins.com		Page 5 of 5		Job #:	
City: Tampa		State, Zip: FL, 33619		PO #:		Analysis Requested		Preservation Codes:	
Email: chad.ramey@aptim.com		TAT Requested (days): 3-5 Day TAT		Compliance Project: ☐ Yes ☐ No		Due Date Requested:		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	
Project Name: FDOT District 7-1-275 Soil Delineation Site34/48		WO #: 631025979		Project #: 66013579		SSOW#:		M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
Site:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=oil)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=oil)	
SB66e4		11/14/23		0920		G=grab		Solid	
SB70e4				0935				Solid	
SB88e4				0940				Solid	
SB90e4				0950					
SB10e4				1065					
SB11e4				1020					
SB12e4				1030					
SB13e4				1040					
SB14e4				1050					
SB15e4				1115					
SB16e4				1125					
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant		☐ Poison B ☐ Unknown ☐ Radiological		☐ Return To Client ☐ Disposal By Lab ☐ Archive For		Months	
Deliverable Requested: I, II, III, IV, Other (specify)									
Empty Kit Relinquished by:		Date/Time: 11/15/23 0800		Date/Time: 11/16/23 10:10		Date/Time: 11-16-23 16:40		Company: Eurofins	
Relinquished by: Chad Ramey		Date/Time: 11/15/23 0800		Date/Time: 11/16/23 10:10		Date/Time: 11-16-23 16:40		Company: Eurofins	
Relinquished by: AJA		Date/Time: 11/15/23 0800		Date/Time: 11/16/23 10:10		Date/Time: 11-16-23 16:40		Company: Eurofins	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 1.6 Carlog					

Client Information Client Name: Chad Ramey Client Contact: Chad Ramey Phone: (615) 665-7421 Phone/Fax: (615) 665-7425		Company: Aptim Environmental & Infrastructure Inc Address: 725 US Highway 301 South City: Tampa State, Zip: FL, 33619 Email: chad.ramey@aptim.com Project Name: FDOT District 7-1-275 Soil Delineation Site34/48 Site:		Carrier Tracking No(s): 660-119238-380511 Page: Page 1 of 5 Job #:	
Sample Information Sampler: Chad Ramey Phone: 813-981-4132 E-Mail: carlene.pasipanki@et.eurofinsus.com		Analysis Requested Due Date Requested: TAT Requested (days): 3-5 Day TAT Compliance Project: ☐ Yes ☒ No PO #: WO #: 631025979 Project #: 66013579 SSON#:		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2SO3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecylhydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify) Other	
Sample Identification SB1704 SB1804 SB1904		Sample Date 11/14/23 11/14/23 11/14/23		Sample Time 1135 1145 1200	
Sample Type (C=Comp, G=Grab) Grab L L		Matrix (Newer, Spill, Overstall) Solid Solid Solid		Field Filtered Sample (Yes or No) N X X	
Preservation Code N X X		Performs MS/MSD (Yes or No) N X X		8081B Pesticides N X X	
Special Instructions/Note: Total Number of containers					
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I II III IV Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Special Instructions/QC Requirements: NOV 08 2023 Date: Time: 900 Method of Shipment:					
Relinquished by: Chad Ramey Relinquished by: AJA Relinquished by:		Date/Time: 11/15/23 0800 Date/Time: 11/16/23 1040 Date/Time:		Company: Aptim Company: Eurofins Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seal No.		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 16 Curog	

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-133033-1

Login Number: 133033

List Source: Eurofins Tampa

List Number: 1

Creator: Grohman, Tina

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.	True	
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: Aptim Environmental & Infrastructure Inc

Job Number: 660-133033-1

Login Number: 133033

List Number: 2

Creator: Hartley, Tyler

List Source: Eurofins Orlando

List Creation: 11/17/23 09:14 AM

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.	True	
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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 11/29/2023 11:53:15 AM

JOB DESCRIPTION

FDOT District 7-1-275 Soil Delineation Site 34/48

JOB NUMBER

660-133038-1

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
11/29/2023 11:53:15 AM

Authorized for release by
Carlene Pasipanki, Project Manager
carlene.pasipanki@et.eurofinsus.com
(321)282-6397

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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-133038-1	SB20@4	Solid	11/15/23 09:00	11/16/23 10:40
660-133038-2	SB21@4	Solid	11/15/23 09:10	11/16/23 10:40
660-133038-3	SB22@4	Solid	11/15/23 09:20	11/16/23 10:40
660-133038-4	SB23@4	Solid	11/15/23 09:30	11/16/23 10:40
660-133038-5	SB24@4	Solid	11/15/23 09:40	11/16/23 10:40
660-133038-6	SB25@4	Solid	11/15/23 09:50	11/16/23 10:40
660-133038-7	SB26@4	Solid	11/15/23 10:20	11/16/23 10:40
660-133038-8	SB27@4	Solid	11/15/23 10:30	11/16/23 10:40
660-133038-9	SB28@4	Solid	11/15/23 10:40	11/16/23 10:40
660-133038-10	SB29@4	Solid	11/15/23 10:50	11/16/23 10:40
660-133038-11	SB30@4	Solid	11/15/23 11:00	11/16/23 10:40
660-133038-12	SB31@4	Solid	11/15/23 11:10	11/16/23 10:40
660-133038-13	SB32@4	Solid	11/15/23 11:20	11/16/23 10:40
660-133038-14	SB33@4	Solid	11/15/23 11:30	11/16/23 10:40

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB20@4

Lab Sample ID: 660-133038-1

No Detections.

Client Sample ID: SB21@4

Lab Sample ID: 660-133038-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
4,4'-DDT	2.9	I	7.2	0.59	ug/Kg	2		✱	8081B	Total/NA
alpha-Chlordane	1.1	I	7.2	0.18	ug/Kg	2		✱	8081B	Total/NA

Client Sample ID: SB22@4

Lab Sample ID: 660-133038-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
alpha-Chlordane	0.77	I	7.2	0.17	ug/Kg	2		✱	8081B	Total/NA
gamma-Chlordane	0.84	I	7.2	0.32	ug/Kg	2		✱	8081B	Total/NA

Client Sample ID: SB23@4

Lab Sample ID: 660-133038-4

No Detections.

Client Sample ID: SB24@4

Lab Sample ID: 660-133038-5

No Detections.

Client Sample ID: SB25@4

Lab Sample ID: 660-133038-6

No Detections.

Client Sample ID: SB26@4

Lab Sample ID: 660-133038-7

No Detections.

Client Sample ID: SB27@4

Lab Sample ID: 660-133038-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
4,4'-DDE	0.54	I	7.6	0.29	ug/Kg	2		✱	8081B	Total/NA
4,4'-DDT	5.9	I	7.6	0.62	ug/Kg	2		✱	8081B	Total/NA
Dieldrin	2.4	I	7.6	0.37	ug/Kg	2		✱	8081B	Total/NA
Endrin	0.94	I	7.6	0.10	ug/Kg	2		✱	8081B	Total/NA
alpha-Chlordane	1.3	I	7.6	0.19	ug/Kg	2		✱	8081B	Total/NA
gamma-Chlordane	1.8	I	7.6	0.34	ug/Kg	2		✱	8081B	Total/NA

Client Sample ID: SB28@4

Lab Sample ID: 660-133038-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
4,4'-DDE	0.46	I	7.3	0.28	ug/Kg	2		✱	8081B	Total/NA
4,4'-DDT	2.1	I	7.3	0.59	ug/Kg	2		✱	8081B	Total/NA
Dieldrin	2.7	I	7.3	0.35	ug/Kg	2		✱	8081B	Total/NA
alpha-Chlordane	1.5	I	7.3	0.18	ug/Kg	2		✱	8081B	Total/NA
gamma-Chlordane	1.6	I	7.3	0.33	ug/Kg	2		✱	8081B	Total/NA

Client Sample ID: SB29@4

Lab Sample ID: 660-133038-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
4,4'-DDD	10	I	19	1.1	ug/Kg	5		✱	8081B	Total/NA
4,4'-DDE	1.3	I	19	0.71	ug/Kg	5		✱	8081B	Total/NA
4,4'-DDT	6.2	I	19	1.5	ug/Kg	5		✱	8081B	Total/NA
Heptachlor epoxide	11	I	19	1.1	ug/Kg	5		✱	8081B	Total/NA
alpha-Chlordane	1.7	I	19	0.46	ug/Kg	5		✱	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB30@4

Lab Sample ID: 660-133038-11

No Detections.

Client Sample ID: SB31@4

Lab Sample ID: 660-133038-12

No Detections.

Client Sample ID: SB32@4

Lab Sample ID: 660-133038-13

No Detections.

Client Sample ID: SB33@4

Lab Sample ID: 660-133038-14

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Job ID: 660-133038-1

Laboratory: Eurofins Tampa

Narrative

Job Narrative 660-133038-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/16/2023 10:40 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 time was 1.6°C

Pesticides

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

General Chemistry

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

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Qualifiers

GC 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.

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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB20@4

Lab Sample ID: 660-133038-1

Date Collected: 11/15/23 09:00

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 87.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.30	U	7.8	0.30	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
alpha-BHC	0.24	U	7.8	0.24	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
beta-BHC	0.47	U	7.8	0.47	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
delta-BHC	0.23	U	7.8	0.23	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
gamma-BHC (Lindane)	0.14	U	16	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
4,4'-DDD	0.45	U	7.8	0.45	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
4,4'-DDE	0.30	U	7.8	0.30	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
4,4'-DDT	0.63	U	7.8	0.63	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Dieldrin	0.38	U	7.8	0.38	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Endosulfan I	0.26	U	7.8	0.26	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Endosulfan II	0.19	U	7.8	0.19	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Endrin	0.10	U	7.8	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Endrin aldehyde	0.59	U	16	0.59	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Heptachlor	0.28	U	7.8	0.28	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Heptachlor epoxide	0.48	U	7.8	0.48	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Methoxychlor	0.67	U	7.8	0.67	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Endosulfan sulfate	0.38	U	16	0.38	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Endrin ketone	0.11	U	16	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Toxaphene	11	U	23	11	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
Chlordane (technical)	8.1	U	23	8.1	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
alpha-Chlordane	0.19	U	7.8	0.19	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2
gamma-Chlordane	0.35	U	7.8	0.35	ug/Kg	✱	11/17/23 15:53	11/22/23 17:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	59		25 - 145	11/17/23 15:53	11/22/23 17:40	2
Tetrachloro-m-xylene	52		35 - 135	11/17/23 15:53	11/22/23 17:40	2

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB21@4

Lab Sample ID: 660-133038-2

Date Collected: 11/15/23 09:10

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 94.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.28	U	7.2	0.28	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
alpha-BHC	0.22	U	7.2	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
beta-BHC	0.43	U	7.2	0.43	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
delta-BHC	0.21	U	7.2	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
gamma-BHC (Lindane)	0.13	U	14	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
4,4'-DDD	0.41	U	7.2	0.41	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
4,4'-DDE	0.27	U	7.2	0.27	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
4,4'-DDT	2.9	I	7.2	0.59	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Dieldrin	0.35	U	7.2	0.35	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Endosulfan I	0.24	U	7.2	0.24	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Endosulfan II	0.17	U	7.2	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Endrin	0.097	U	7.2	0.097	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Endrin aldehyde	0.55	U	14	0.55	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Heptachlor	0.26	U	7.2	0.26	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Heptachlor epoxide	0.44	U	7.2	0.44	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Methoxychlor	0.62	U	7.2	0.62	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Endosulfan sulfate	0.35	U	14	0.35	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Endrin ketone	0.10	U	14	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Toxaphene	10	U	21	10	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
Chlordane (technical)	7.4	U	21	7.4	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
alpha-Chlordane	1.1	I	7.2	0.18	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2
gamma-Chlordane	0.32	U	7.2	0.32	ug/Kg	✱	11/17/23 15:53	11/22/23 17:56	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	76		25 - 145	11/17/23 15:53	11/22/23 17:56	2
Tetrachloro-m-xylene	96		35 - 135	11/17/23 15:53	11/22/23 17:56	2

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB22@4

Lab Sample ID: 660-133038-3

Date Collected: 11/15/23 09:20

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 94.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.28	U	7.2	0.28	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
alpha-BHC	0.22	U	7.2	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
beta-BHC	0.43	U	7.2	0.43	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
delta-BHC	0.21	U	7.2	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
gamma-BHC (Lindane)	0.13	U	14	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
4,4'-DDD	0.41	U	7.2	0.41	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
4,4'-DDE	0.27	U	7.2	0.27	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
4,4'-DDT	0.58	U	7.2	0.58	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Dieldrin	0.35	U	7.2	0.35	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Endosulfan I	0.24	U	7.2	0.24	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Endosulfan II	0.17	U	7.2	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Endrin	0.096	U	7.2	0.096	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Endrin aldehyde	0.55	U	14	0.55	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Heptachlor	0.26	U	7.2	0.26	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Heptachlor epoxide	0.44	U	7.2	0.44	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Methoxychlor	0.61	U	7.2	0.61	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Endosulfan sulfate	0.35	U	14	0.35	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Endrin ketone	0.10	U	14	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Toxaphene	10	U	21	10	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
Chlordane (technical)	7.4	U	21	7.4	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
alpha-Chlordane	0.77	I	7.2	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2
gamma-Chlordane	0.84	I	7.2	0.32	ug/Kg	✱	11/17/23 15:53	11/22/23 18:12	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		25 - 145	11/17/23 15:53	11/22/23 18:12	2
Tetrachloro-m-xylene	69		35 - 135	11/17/23 15:53	11/22/23 18:12	2

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB23@4

Lab Sample ID: 660-133038-4

Date Collected: 11/15/23 09:30

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 95.3

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
beta-BHC	0.21	U	3.6	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
delta-BHC	0.10	U	3.6	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
gamma-BHC (Lindane)	0.065	U	7.1	0.065	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Endosulfan II	0.086	U	3.6	0.086	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Endrin	0.048	U	3.6	0.048	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Endrin aldehyde	0.27	U	7.1	0.27	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Methoxychlor	0.30	U	3.6	0.30	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Endosulfan sulfate	0.17	U	7.1	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Endrin ketone	0.052	U	7.1	0.052	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Toxaphene	5.0	U	10	5.0	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
Chlordane (technical)	3.7	U	10	3.7	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
alpha-Chlordane	0.087	U	3.6	0.087	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/17/23 15:53	11/22/23 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	65		25 - 145	11/17/23 15:53	11/22/23 18:28	1
Tetrachloro-m-xylene	48		35 - 135	11/17/23 15:53	11/22/23 18:28	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB24@4

Lab Sample ID: 660-133038-5

Date Collected: 11/15/23 09:40

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 98.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.13	U	3.5	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
alpha-BHC	0.10	U	3.5	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
beta-BHC	0.21	U	3.5	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
delta-BHC	0.10	U	3.5	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
gamma-BHC (Lindane)	0.062	U	6.9	0.062	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
4,4'-DDD	0.20	U	3.5	0.20	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
4,4'-DDE	0.13	U	3.5	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
4,4'-DDT	0.28	U	3.5	0.28	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Dieldrin	0.17	U	3.5	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Endosulfan I	0.12	U	3.5	0.12	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Endosulfan II	0.083	U	3.5	0.083	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Endrin	0.046	U	3.5	0.046	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Endrin aldehyde	0.26	U	6.9	0.26	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Heptachlor	0.12	U	3.5	0.12	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Heptachlor epoxide	0.21	U	3.5	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Methoxychlor	0.29	U	3.5	0.29	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Endosulfan sulfate	0.17	U	6.9	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Endrin ketone	0.050	U	6.9	0.050	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Toxaphene	4.8	U	10	4.8	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
Chlordane (technical)	3.6	U	10	3.6	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
alpha-Chlordane	0.084	U	3.5	0.084	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1
gamma-Chlordane	0.15	U	3.5	0.15	ug/Kg	✱	11/17/23 15:53	11/22/23 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		25 - 145	11/17/23 15:53	11/22/23 18:44	1
Tetrachloro-m-xylene	66		35 - 135	11/17/23 15:53	11/22/23 18:44	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB25@4

Lab Sample ID: 660-133038-6

Date Collected: 11/15/23 09:50

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 95.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
beta-BHC	0.21	U	3.6	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
delta-BHC	0.10	U	3.6	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
gamma-BHC (Lindane)	0.065	U	7.2	0.065	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Endosulfan II	0.086	U	3.6	0.086	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Endrin	0.048	U	3.6	0.048	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Endrin aldehyde	0.27	U	7.2	0.27	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Methoxychlor	0.30	U	3.6	0.30	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Endosulfan sulfate	0.17	U	7.2	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Endrin ketone	0.052	U	7.2	0.052	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Toxaphene	5.0	U	11	5.0	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Chlordane (technical)	3.7	U	11	3.7	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
alpha-Chlordane	0.087	U	3.6	0.087	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/17/23 15:53	11/22/23 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	67		25 - 145				11/17/23 15:53	11/22/23 18:59	1
Tetrachloro-m-xylene	48		35 - 135				11/17/23 15:53	11/22/23 18:59	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB26@4

Lab Sample ID: 660-133038-7

Date Collected: 11/15/23 10:20

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 94.9

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
beta-BHC	0.22	U	3.6	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
delta-BHC	0.10	U	3.6	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
gamma-BHC (Lindane)	0.065	U	7.2	0.065	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Endosulfan II	0.086	U	3.6	0.086	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Endrin	0.048	U	3.6	0.048	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Endrin aldehyde	0.27	U	7.2	0.27	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Methoxychlor	0.31	U	3.6	0.31	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Endosulfan sulfate	0.17	U	7.2	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Endrin ketone	0.052	U	7.2	0.052	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Toxaphene	5.0	U	11	5.0	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Chlordane (technical)	3.7	U	11	3.7	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
alpha-Chlordane	0.087	U	3.6	0.087	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/17/23 15:53	11/22/23 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	84		25 - 145				11/17/23 15:53	11/22/23 19:15	1
Tetrachloro-m-xylene	62		35 - 135				11/17/23 15:53	11/22/23 19:15	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB27@4

Lab Sample ID: 660-133038-8

Date Collected: 11/15/23 10:30

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 89.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.30	U	7.6	0.30	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
alpha-BHC	0.23	U	7.6	0.23	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
beta-BHC	0.46	U	7.6	0.46	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
delta-BHC	0.22	U	7.6	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
gamma-BHC (Lindane)	0.14	U	15	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
4,4'-DDD	0.44	U	7.6	0.44	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
4,4'-DDE	0.54	I	7.6	0.29	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
4,4'-DDT	5.9	I	7.6	0.62	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Dieldrin	2.4	I	7.6	0.37	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Endosulfan I	0.26	U	7.6	0.26	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Endosulfan II	0.18	U	7.6	0.18	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Endrin	0.94	I	7.6	0.10	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Endrin aldehyde	0.58	U	15	0.58	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Heptachlor	0.27	U	7.6	0.27	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Heptachlor epoxide	0.46	U	7.6	0.46	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Methoxychlor	0.65	U	7.6	0.65	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Endosulfan sulfate	0.37	U	15	0.37	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Endrin ketone	0.11	U	15	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Toxaphene	11	U	22	11	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
Chlordane (technical)	7.9	U	22	7.9	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
alpha-Chlordane	1.3	I	7.6	0.19	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2
gamma-Chlordane	1.8	I	7.6	0.34	ug/Kg	✱	11/17/23 15:53	11/22/23 19:31	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	90		25 - 145	11/17/23 15:53	11/22/23 19:31	2
Tetrachloro-m-xylene	56		35 - 135	11/17/23 15:53	11/22/23 19:31	2

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB28@4

Lab Sample ID: 660-133038-9

Date Collected: 11/15/23 10:40

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 93.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.28	U	7.3	0.28	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
alpha-BHC	0.22	U	7.3	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
beta-BHC	0.44	U	7.3	0.44	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
delta-BHC	0.21	U	7.3	0.21	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
gamma-BHC (Lindane)	0.13	U	15	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
4,4'-DDD	0.42	U	7.3	0.42	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
4,4'-DDE	0.46	I	7.3	0.28	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
4,4'-DDT	2.1	I	7.3	0.59	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Dieldrin	2.7	I	7.3	0.35	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Endosulfan I	0.24	U	7.3	0.24	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Endosulfan II	0.18	U	7.3	0.18	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Endrin	0.098	U	7.3	0.098	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Endrin aldehyde	0.56	U	15	0.56	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Heptachlor	0.26	U	7.3	0.26	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Heptachlor epoxide	0.44	U	7.3	0.44	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Methoxychlor	0.62	U	7.3	0.62	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Endosulfan sulfate	0.36	U	15	0.36	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Endrin ketone	0.11	U	15	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Toxaphene	10	U	22	10	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
Chlordane (technical)	7.5	U	22	7.5	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
alpha-Chlordane	1.5	I	7.3	0.18	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2
gamma-Chlordane	1.6	I	7.3	0.33	ug/Kg	✱	11/17/23 15:53	11/22/23 19:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		25 - 145	11/17/23 15:53	11/22/23 19:47	2
Tetrachloro-m-xylene	52		35 - 135	11/17/23 15:53	11/22/23 19:47	2

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB29@4

Lab Sample ID: 660-133038-10

Date Collected: 11/15/23 10:50

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 90.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.73	U	19	0.73	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
alpha-BHC	0.57	U	19	0.57	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
beta-BHC	1.1	U	19	1.1	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
delta-BHC	0.55	U	19	0.55	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
gamma-BHC (Lindane)	0.34	U	38	0.34	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
4,4'-DDD	10	I	19	1.1	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
4,4'-DDE	1.3	I	19	0.71	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
4,4'-DDT	6.2	I	19	1.5	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Dieldrin	0.91	U	19	0.91	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Endosulfan I	0.63	U	19	0.63	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Endosulfan II	0.45	U	19	0.45	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Endrin	0.25	U	19	0.25	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Endrin aldehyde	1.4	U	38	1.4	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Heptachlor	0.67	U	19	0.67	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Heptachlor epoxide	11	I	19	1.1	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Methoxychlor	1.6	U	19	1.6	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Endosulfan sulfate	0.92	U	38	0.92	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Endrin ketone	0.27	U	38	0.27	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Toxaphene	26	U	55	26	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
Chlordane (technical)	19	U	55	19	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
alpha-Chlordane	1.7	I	19	0.46	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5
gamma-Chlordane	0.84	U	19	0.84	ug/Kg	✱	11/17/23 15:53	11/22/23 20:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		25 - 145	11/17/23 15:53	11/22/23 20:03	5
Tetrachloro-m-xylene	41		35 - 135	11/17/23 15:53	11/22/23 20:03	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB30@4

Lab Sample ID: 660-133038-11

Date Collected: 11/15/23 11:00

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 90.7

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.15	U	3.7	0.15	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
alpha-BHC	0.11	U	3.7	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
beta-BHC	0.23	U	3.7	0.23	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
delta-BHC	0.11	U	3.7	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
gamma-BHC (Lindane)	0.068	U	7.5	0.068	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
4,4'-DDD	0.22	U	3.7	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
4,4'-DDE	0.14	U	3.7	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
4,4'-DDT	0.30	U	3.7	0.30	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Dieldrin	0.18	U	3.7	0.18	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Endosulfan I	0.13	U	3.7	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Endosulfan II	0.090	U	3.7	0.090	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Endrin	0.050	U	3.7	0.050	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Endrin aldehyde	0.29	U	7.5	0.29	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Heptachlor	0.13	U	3.7	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Heptachlor epoxide	0.23	U	3.7	0.23	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Methoxychlor	0.32	U	3.7	0.32	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Endosulfan sulfate	0.18	U	7.5	0.18	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Endrin ketone	0.054	U	7.5	0.054	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Toxaphene	5.2	U	11	5.2	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
Chlordane (technical)	3.9	U	11	3.9	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
alpha-Chlordane	0.091	U	3.7	0.091	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1
gamma-Chlordane	0.17	U	3.7	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		25 - 145	11/17/23 15:53	11/22/23 20:19	1
Tetrachloro-m-xylene	58		35 - 135	11/17/23 15:53	11/22/23 20:19	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB31@4

Lab Sample ID: 660-133038-12

Date Collected: 11/15/23 11:10

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 96.3

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.69	U	18	0.69	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
alpha-BHC	0.53	U	18	0.53	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
beta-BHC	1.1	U	18	1.1	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
delta-BHC	0.52	U	18	0.52	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
gamma-BHC (Lindane)	0.32	U	35	0.32	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
4,4'-DDD	1.0	U	18	1.0	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
4,4'-DDE	0.67	U	18	0.67	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
4,4'-DDT	1.4	U	18	1.4	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Dieldrin	0.85	U	18	0.85	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Endosulfan I	0.59	U	18	0.59	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Endosulfan II	0.42	U	18	0.42	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Endrin	0.24	U	18	0.24	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Endrin aldehyde	1.3	U	35	1.3	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Heptachlor	0.63	U	18	0.63	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Heptachlor epoxide	1.1	U	18	1.1	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Methoxychlor	1.5	U	18	1.5	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Endosulfan sulfate	0.86	U	35	0.86	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Endrin ketone	0.26	U	35	0.26	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Toxaphene	25	U	52	25	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
Chlordane (technical)	18	U	52	18	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
alpha-Chlordane	0.43	U	18	0.43	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5
gamma-Chlordane	0.79	U	18	0.79	ug/Kg	✱	11/17/23 15:53	11/22/23 20:35	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		25 - 145	11/17/23 15:53	11/22/23 20:35	5
Tetrachloro-m-xylene	55		35 - 135	11/17/23 15:53	11/22/23 20:35	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB32@4

Lab Sample ID: 660-133038-13

Date Collected: 11/15/23 11:20

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 87.4

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.15	U	3.9	0.15	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
alpha-BHC	0.12	U	3.9	0.12	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
beta-BHC	0.23	U	3.9	0.23	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
delta-BHC	0.11	U	3.9	0.11	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
gamma-BHC (Lindane)	0.070	U	7.8	0.070	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
4,4'-DDD	0.22	U	3.9	0.22	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
4,4'-DDE	0.15	U	3.9	0.15	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
4,4'-DDT	0.32	U	3.9	0.32	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Dieldrin	0.19	U	3.9	0.19	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Endosulfan I	0.13	U	3.9	0.13	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Endosulfan II	0.093	U	3.9	0.093	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Endrin	0.052	U	3.9	0.052	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Endrin aldehyde	0.30	U	7.8	0.30	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Heptachlor	0.14	U	3.9	0.14	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Heptachlor epoxide	0.24	U	3.9	0.24	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Methoxychlor	0.33	U	3.9	0.33	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Endosulfan sulfate	0.19	U	7.8	0.19	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Endrin ketone	0.056	U	7.8	0.056	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Toxaphene	5.4	U	11	5.4	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
Chlordane (technical)	4.0	U	11	4.0	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
alpha-Chlordane	0.095	U	3.9	0.095	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1
gamma-Chlordane	0.17	U	3.9	0.17	ug/Kg	✱	11/17/23 15:53	11/22/23 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		25 - 145	11/17/23 15:53	11/22/23 20:51	1
Tetrachloro-m-xylene	63		35 - 135	11/17/23 15:53	11/22/23 20:51	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB33@4

Lab Sample ID: 660-133038-14

Date Collected: 11/15/23 11:30

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 92.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	1.4	U	37	1.4	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
alpha-BHC	1.1	U	37	1.1	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
beta-BHC	2.2	U	37	2.2	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
delta-BHC	1.1	U	37	1.1	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
gamma-BHC (Lindane)	0.66	U	73	0.66	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
4,4'-DDD	2.1	U	37	2.1	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
4,4'-DDE	1.4	U	37	1.4	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
4,4'-DDT	3.0	U	37	3.0	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Dieldrin	1.8	U	37	1.8	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Endosulfan I	1.2	U	37	1.2	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Endosulfan II	0.88	U	37	0.88	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Endrin	0.49	U	37	0.49	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Endrin aldehyde	2.8	U	73	2.8	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Heptachlor	1.3	U	37	1.3	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Heptachlor epoxide	2.2	U	37	2.2	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Methoxychlor	3.1	U	37	3.1	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Endosulfan sulfate	1.8	U	73	1.8	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Endrin ketone	0.53	U	73	0.53	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Toxaphene	51	U	110	51	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
Chlordane (technical)	38	U	110	38	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
alpha-Chlordane	0.89	U	37	0.89	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10
gamma-Chlordane	1.6	U	37	1.6	ug/Kg	✱	11/17/23 15:53	11/22/23 21:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		25 - 145	11/17/23 15:53	11/22/23 21:07	10
Tetrachloro-m-xylene	60		35 - 135	11/17/23 15:53	11/22/23 21:07	10

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 670-64024/1-A

Matrix: Solid

Analysis Batch: 64672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64024

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.13	U	3.4	0.13	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
alpha-BHC	0.10	U	3.4	0.10	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
beta-BHC	0.20	U	3.4	0.20	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
delta-BHC	0.10	U	3.4	0.10	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
gamma-BHC (Lindane)	0.062	U	6.8	0.062	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
4,4'-DDD	0.20	U	3.4	0.20	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
4,4'-DDE	0.13	U	3.4	0.13	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
4,4'-DDT	0.28	U	3.4	0.28	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Dieldrin	0.16	U	3.4	0.16	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Endosulfan I	0.11	U	3.4	0.11	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Endosulfan II	0.082	U	3.4	0.082	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Endrin	0.046	U	3.4	0.046	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Endrin aldehyde	0.26	U	6.8	0.26	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Heptachlor	0.12	U	3.4	0.12	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Heptachlor epoxide	0.21	U	3.4	0.21	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Methoxychlor	0.29	U	3.4	0.29	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Endosulfan sulfate	0.17	U	6.8	0.17	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Endrin ketone	0.049	U	6.8	0.049	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Toxaphene	4.7	U	10	4.7	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Chlordane (technical)	3.5	U	10	3.5	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
alpha-Chlordane	0.083	U	3.4	0.083	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
gamma-Chlordane	0.15	U	3.4	0.15	ug/Kg		11/17/23 15:53	11/22/23 14:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	69		25 - 145				11/17/23 15:53	11/22/23 14:34	1
Tetrachloro-m-xylene	60		35 - 135				11/17/23 15:53	11/22/23 14:34	1

Lab Sample ID: LCS 670-64024/2-A

Matrix: Solid

Analysis Batch: 64672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	12.5	7.22		ug/Kg		58	48 - 170
gamma-Chlordane	12.5	8.41		ug/Kg		67	45 - 170
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	73		25 - 145				
Tetrachloro-m-xylene	56		35 - 135				

Lab Sample ID: 670-30491-A-7-C MS

Matrix: Solid

Analysis Batch: 64672

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64024

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.087	U	13.1	7.18		ug/Kg	☼	55	45 - 170
gamma-Chlordane	0.16	U	13.1	8.04		ug/Kg	☼	61	43 - 170

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QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 670-30491-A-7-C MS

Matrix: Solid

Analysis Batch: 64672

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 64024

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	74		25 - 145
Tetrachloro-m-xylene	38		35 - 135

Lab Sample ID: 670-30491-A-7-D MSD

Matrix: Solid

Analysis Batch: 64672

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 64024

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
alpha-Chlordane	0.087	U	13.1	8.07		ug/Kg	✱	61	45 - 170	12
gamma-Chlordane	0.16	U	13.1	9.03		ug/Kg	✱	69	43 - 170	12

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	74		25 - 145
Tetrachloro-m-xylene	46		35 - 135

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

GC Semi VOA

Prep Batch: 64024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133038-1	SB20@4	Total/NA	Solid	3546	
660-133038-2	SB21@4	Total/NA	Solid	3546	
660-133038-3	SB22@4	Total/NA	Solid	3546	
660-133038-4	SB23@4	Total/NA	Solid	3546	
660-133038-5	SB24@4	Total/NA	Solid	3546	
660-133038-6	SB25@4	Total/NA	Solid	3546	
660-133038-7	SB26@4	Total/NA	Solid	3546	
660-133038-8	SB27@4	Total/NA	Solid	3546	
660-133038-9	SB28@4	Total/NA	Solid	3546	
660-133038-10	SB29@4	Total/NA	Solid	3546	
660-133038-11	SB30@4	Total/NA	Solid	3546	
660-133038-12	SB31@4	Total/NA	Solid	3546	
660-133038-13	SB32@4	Total/NA	Solid	3546	
660-133038-14	SB33@4	Total/NA	Solid	3546	
MB 670-64024/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-64024/2-A	Lab Control Sample	Total/NA	Solid	3546	
670-30491-A-7-C MS	Matrix Spike	Total/NA	Solid	3546	
670-30491-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 64672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133038-1	SB20@4	Total/NA	Solid	8081B	64024
660-133038-2	SB21@4	Total/NA	Solid	8081B	64024
660-133038-3	SB22@4	Total/NA	Solid	8081B	64024
660-133038-4	SB23@4	Total/NA	Solid	8081B	64024
660-133038-5	SB24@4	Total/NA	Solid	8081B	64024
660-133038-6	SB25@4	Total/NA	Solid	8081B	64024
660-133038-7	SB26@4	Total/NA	Solid	8081B	64024
660-133038-8	SB27@4	Total/NA	Solid	8081B	64024
660-133038-9	SB28@4	Total/NA	Solid	8081B	64024
660-133038-10	SB29@4	Total/NA	Solid	8081B	64024
660-133038-11	SB30@4	Total/NA	Solid	8081B	64024
660-133038-12	SB31@4	Total/NA	Solid	8081B	64024
660-133038-13	SB32@4	Total/NA	Solid	8081B	64024
660-133038-14	SB33@4	Total/NA	Solid	8081B	64024
MB 670-64024/1-A	Method Blank	Total/NA	Solid	8081B	64024
LCS 670-64024/2-A	Lab Control Sample	Total/NA	Solid	8081B	64024
670-30491-A-7-C MS	Matrix Spike	Total/NA	Solid	8081B	64024
670-30491-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	64024

General Chemistry

Analysis Batch: 64271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133038-1	SB20@4	Total/NA	Solid	Moisture	
660-133038-2	SB21@4	Total/NA	Solid	Moisture	
660-133038-4	SB23@4	Total/NA	Solid	Moisture	
660-133038-5	SB24@4	Total/NA	Solid	Moisture	
660-133038-6	SB25@4	Total/NA	Solid	Moisture	
660-133038-7	SB26@4	Total/NA	Solid	Moisture	
660-133038-9	SB28@4	Total/NA	Solid	Moisture	

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QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

General Chemistry (Continued)

Analysis Batch: 64271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133038-10	SB29@4	Total/NA	Solid	Moisture	
660-133038-11	SB30@4	Total/NA	Solid	Moisture	
660-133038-12	SB31@4	Total/NA	Solid	Moisture	
660-133038-13	SB32@4	Total/NA	Solid	Moisture	
660-133038-14	SB33@4	Total/NA	Solid	Moisture	
660-133038-1 DU	SB20@4	Total/NA	Solid	Moisture	

Analysis Batch: 64416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133038-3	SB22@4	Total/NA	Solid	Moisture	
660-133038-8	SB27@4	Total/NA	Solid	Moisture	
670-30374-A-16 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB20@4

Date Collected: 11/15/23 09:00

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB20@4

Date Collected: 11/15/23 09:00

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-1

Matrix: Solid

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		2			64672	11/22/23 17:40	MC	EET ORL

Client Sample ID: SB21@4

Date Collected: 11/15/23 09:10

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB21@4

Date Collected: 11/15/23 09:10

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-2

Matrix: Solid

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		2			64672	11/22/23 17:56	MC	EET ORL

Client Sample ID: SB22@4

Date Collected: 11/15/23 09:20

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64416	11/21/23 10:47	RB	EET ORL

Client Sample ID: SB22@4

Date Collected: 11/15/23 09:20

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-3

Matrix: Solid

Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		2			64672	11/22/23 18:12	MC	EET ORL

Client Sample ID: SB23@4

Date Collected: 11/15/23 09:30

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Eurofins Tampa

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB23@4

Date Collected: 11/15/23 09:30

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-4

Matrix: Solid

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		1			64672	11/22/23 18:28	MC	EET ORL

Client Sample ID: SB24@4

Date Collected: 11/15/23 09:40

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB24@4

Date Collected: 11/15/23 09:40

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-5

Matrix: Solid

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		1			64672	11/22/23 18:44	MC	EET ORL

Client Sample ID: SB25@4

Date Collected: 11/15/23 09:50

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB25@4

Date Collected: 11/15/23 09:50

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-6

Matrix: Solid

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		1			64672	11/22/23 18:59	MC	EET ORL

Client Sample ID: SB26@4

Date Collected: 11/15/23 10:20

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB26@4

Date Collected: 11/15/23 10:20

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-7

Matrix: Solid

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		1			64672	11/22/23 19:15	MC	EET ORL

Client Sample ID: SB27@4

Date Collected: 11/15/23 10:30

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64416	11/21/23 10:47	RB	EET ORL

Client Sample ID: SB27@4

Date Collected: 11/15/23 10:30

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-8

Matrix: Solid

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		2			64672	11/22/23 19:31	MC	EET ORL

Client Sample ID: SB28@4

Date Collected: 11/15/23 10:40

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB28@4

Date Collected: 11/15/23 10:40

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-9

Matrix: Solid

Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		2			64672	11/22/23 19:47	MC	EET ORL

Client Sample ID: SB29@4

Date Collected: 11/15/23 10:50

Date Received: 11/16/23 10:40

Lab Sample ID: 660-133038-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB29@4

Lab Sample ID: 660-133038-10

Date Collected: 11/15/23 10:50

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		5			64672	11/22/23 20:03	MC	EET ORL

Client Sample ID: SB30@4

Lab Sample ID: 660-133038-11

Date Collected: 11/15/23 11:00

Matrix: Solid

Date Received: 11/16/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB30@4

Lab Sample ID: 660-133038-11

Date Collected: 11/15/23 11:00

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		1			64672	11/22/23 20:19	MC	EET ORL

Client Sample ID: SB31@4

Lab Sample ID: 660-133038-12

Date Collected: 11/15/23 11:10

Matrix: Solid

Date Received: 11/16/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB31@4

Lab Sample ID: 660-133038-12

Date Collected: 11/15/23 11:10

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		5			64672	11/22/23 20:35	MC	EET ORL

Client Sample ID: SB32@4

Lab Sample ID: 660-133038-13

Date Collected: 11/15/23 11:20

Matrix: Solid

Date Received: 11/16/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Client Sample ID: SB32@4

Lab Sample ID: 660-133038-13

Date Collected: 11/15/23 11:20

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		1			64672	11/22/23 20:51	MC	EET ORL

Client Sample ID: SB33@4

Lab Sample ID: 660-133038-14

Date Collected: 11/15/23 11:30

Matrix: Solid

Date Received: 11/16/23 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64271	11/20/23 12:26	RB	EET ORL

Client Sample ID: SB33@4

Lab Sample ID: 660-133038-14

Date Collected: 11/15/23 11:30

Matrix: Solid

Date Received: 11/16/23 10:40

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64024	11/17/23 15:53	JR	EET ORL
Total/NA	Analysis	8081B		10			64672	11/22/23 21:07	MC	EET ORL

Laboratory References:

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133038-1

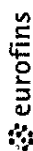
Laboratory: Eurofins Orlando

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	42800	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

Chain of Custody Record

660-Tampã



Environment Testing

Client Information		Sampler		Lab Piv:		Carrier Tracking No(s)		COC No:	
Client Contact Chad Ramey		Phone: 813-981-4132		Pasipanki, Carlene		660-119238-38051.3		Page: 3 of 5	
Company: Aptim Environmental & Infrastructure Inc		Address: 725 US Highway 301 South		City: Tampa		State: FL		Job #:	
City: Tampa		State: FL		Zip: 33619		Phone: 66013579		Project #: 66013579	
Email: chad.ramey@aptim.com		WO #: 631025979		Project #: 66013579		SSOW #:		Site: FDOT District 7-1-275 Soil Delineation Site34/48	
Due Date Requested:		TAT Requested (days):		Compliance Project:		PO #:		WO #:	
3-5 Day TAT		3-5 Day TAT		Delta Yes Delta No					
Sample Date		Sample Time		Sample Type		Matrix		Preservation Code	
11/15/23		0900		Grab		Solid		N	
SB20e4		0910		Grab		Solid		N	
SB21e4		0920		Grab		Solid		N	
SB22e4		0930		Grab		Solid		N	
SB23e4		0940		Grab		Solid		N	
SB24e4		0950		Grab		Solid		N	
SB25e4		1020		Grab		Solid		N	
SB26e4		1030		Grab		Solid		N	
SB27e4		1040		Grab		Solid		N	
SB28e4		1050		Grab		Solid		N	
SB29e4		1100		Grab		Solid		N	
SB30e4									
Sample Identification		Sample Date		Sample Time		Sample Type		Matrix	
SB20e4		11/15/23		0900		Grab		Solid	
SB21e4				0910		Grab		Solid	
SB22e4				0920		Grab		Solid	
SB23e4				0930		Grab		Solid	
SB24e4				0940		Grab		Solid	
SB25e4				0950		Grab		Solid	
SB26e4				1020		Grab		Solid	
SB27e4				1030		Grab		Solid	
SB28e4				1040		Grab		Solid	
SB29e4				1050		Grab		Solid	
SB30e4				1100		Grab		Solid	
Possible Hazard Identification		Non-Hazard		Flammable		Skin Irritant		Poison B	
Deliverable Requested: I, II, III, IV Other (specify)		Unknown		Radiological					
Empty Kit Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Chad Ramey		11/16/23		0800		0800		0800	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
AJA		11/16/23		1040		1040		1040	
Relinquished by:		Date/Time:		Date/Time:		Date/Time:		Date/Time:	
Custody Seals Intact:		Custody Seal No.		Custody Seal No.		Custody Seal No.		Custody Seal No.	
Delta Yes Delta No		1-6		Cust 1209		1-6		Cust 1209	

Client Information Client Name: <u>Chad Ramey</u> Client Contact: <u>Chad Ramey</u> Phone: <u>813-981-4132</u> E-Mail: <u>carlene.pasipanki@et.eurofinsus.com</u>		Lab PM: <u>Pasipanki, Carlene</u> Carrier Tracking No(s): <u>660-119238-38051.4</u> Page: <u>Page 4 of 5</u> Job #:	
Address: <u>725 US Highway 301 South</u> City: <u>Tampa</u> State, Zip: <u>FL, 33619</u> Phone:		Analysis Requested Due Date Requested: TAT Requested (days): <u>3-5 Day TAT</u> Compliance Project: ☐ Yes ☒ No PO #:	
Email: <u>chad.ramey@aptim.com</u> Project Name: <u>FDOT District 7-1-275 Soil Delineation Site34/48</u> Site:		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	
Sample Identification Sample ID: <u>SB31e4</u> <u>SB32e4</u> <u>SB33e4</u>		Matrix (Newer, Swell, Orientation, etc.) Sample Type (C=Comp, G=Grab) Sample Time Sample Date Field Filtered Sample (Yes or No) 8081B Pesticides Perform MS/MSD (Yes or No)	
Sample Date: <u>11/15/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> Matrix: <u>Solid</u>		Preservation Code: <u>NX</u> Field Filtered Sample (Yes or No): <u>NX</u> 8081B Pesticides: <u>NX</u> Perform MS/MSD (Yes or No): <u>NX</u>	
Sample Date: <u>11/16/23</u> Sample Time: <u>1700</u> Sample Type: <u>Grab</u> 			

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-133038-1

Login Number: 133038

List Source: Eurofins Tampa

List Number: 1

Creator: Grohman, Tina

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.	True	
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	



ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 11/29/2023 7:38:26 PM

JOB DESCRIPTION

FDOT District 7-1-275 Soil Delineation Site 34/48

JOB NUMBER

660-133058-1

Eurofins Tampa

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



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Authorized for release by
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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-133058-1	SB34@4	Solid	11/16/23 08:30	11/17/23 13:10
660-133058-2	SB35@4	Solid	11/16/23 07:45	11/17/23 13:10
660-133058-3	SB36@4	Solid	11/16/23 09:00	11/17/23 13:10
660-133058-4	SB37@4	Solid	11/16/23 09:15	11/17/23 13:10
660-133058-5	SB38@4	Solid	11/16/23 09:30	11/17/23 13:10
660-133058-6	SB39@4	Solid	11/16/23 09:45	11/17/23 13:10
660-133058-7	SB40@4	Solid	11/16/23 10:00	11/17/23 13:10
660-133058-8	SB41@4	Solid	11/16/23 10:15	11/17/23 13:10
660-133058-9	SB42@4	Solid	11/16/23 10:30	11/17/23 13:10
660-133058-10	SB43@4	Solid	11/16/23 10:45	11/17/23 13:10
660-133058-11	SB44@4	Solid	11/16/23 11:00	11/17/23 13:10
660-133058-12	SB45@4	Solid	11/16/23 11:20	11/17/23 13:10
660-133058-13	SB46@4	Solid	11/16/23 11:40	11/17/23 13:10
660-133058-14	SB47@4	Solid	11/16/23 12:00	11/17/23 13:10

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB34@4

Lab Sample ID: 660-133058-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	0.28	I	3.7	0.18	ug/Kg	1	✱	8081B	Total/NA
alpha-Chlordane	0.54	I	3.7	0.091	ug/Kg	1	✱	8081B	Total/NA
gamma-Chlordane	0.54	I	3.7	0.17	ug/Kg	1	✱	8081B	Total/NA

Client Sample ID: SB35@4

Lab Sample ID: 660-133058-2

No Detections.

Client Sample ID: SB36@4

Lab Sample ID: 660-133058-3

No Detections.

Client Sample ID: SB37@4

Lab Sample ID: 660-133058-4

No Detections.

Client Sample ID: SB38@4

Lab Sample ID: 660-133058-5

No Detections.

Client Sample ID: SB39@4

Lab Sample ID: 660-133058-6

No Detections.

Client Sample ID: SB40@4

Lab Sample ID: 660-133058-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aldrin	12		3.9	0.15	ug/Kg	1	✱	8081B	Total/NA
Dieldrin	12		3.9	0.19	ug/Kg	1	✱	8081B	Total/NA
alpha-Chlordane	0.57	I	3.9	0.095	ug/Kg	1	✱	8081B	Total/NA
gamma-Chlordane	0.69	I	3.9	0.18	ug/Kg	1	✱	8081B	Total/NA

Client Sample ID: SB41@4

Lab Sample ID: 660-133058-8

No Detections.

Client Sample ID: SB42@4

Lab Sample ID: 660-133058-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlordane (technical)	16		11	4.0	ug/Kg	1	✱	8081B	Total/NA
alpha-Chlordane	1.9	I	3.9	0.094	ug/Kg	1	✱	8081B	Total/NA
gamma-Chlordane	1.7	I	3.9	0.17	ug/Kg	1	✱	8081B	Total/NA

Client Sample ID: SB43@4

Lab Sample ID: 660-133058-10

No Detections.

Client Sample ID: SB44@4

Lab Sample ID: 660-133058-11

No Detections.

Client Sample ID: SB45@4

Lab Sample ID: 660-133058-12

No Detections.

Client Sample ID: SB46@4

Lab Sample ID: 660-133058-13

No Detections.

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB47@4

Lab Sample ID: 660-133058-14

No Detections.

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This Detection Summary does not include radiochemical test results.

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Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Job ID: 660-133058-1

Laboratory: Eurofins Tampa

Narrative

Job Narrative 660-133058-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/17/2023 1:10 PM. 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 time was 0.8°C

Pesticides

Method 8081B: The DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column: (LCS 670-64160/2-A) and (MB 670-64160/1-A). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

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

General Chemistry

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

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
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.
▫	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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB34@4

Lab Sample ID: 660-133058-1

Date Collected: 11/16/23 08:30

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 91.3

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.7	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
alpha-BHC	0.11	U	3.7	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
beta-BHC	0.22	U	3.7	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
delta-BHC	0.11	U	3.7	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
gamma-BHC (Lindane)	0.067	U	7.5	0.067	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
4,4'-DDD	0.21	U	3.7	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
4,4'-DDE	0.14	U	3.7	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
4,4'-DDT	0.30	U	3.7	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Dieldrin	0.28	I	3.7	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Endosulfan I	0.12	U	3.7	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Endosulfan II	0.089	U	3.7	0.089	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Endrin	0.050	U	3.7	0.050	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Endrin aldehyde	0.28	U	7.5	0.28	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Heptachlor	0.13	U	3.7	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Heptachlor epoxide	0.23	U	3.7	0.23	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Methoxychlor	0.32	U	3.7	0.32	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Endosulfan sulfate	0.18	U	7.5	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Endrin ketone	0.054	U	7.5	0.054	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Toxaphene	5.2	U	11	5.2	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
Chlordane (technical)	3.8	U	11	3.8	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
alpha-Chlordane	0.54	I	3.7	0.091	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1
gamma-Chlordane	0.54	I	3.7	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		25 - 145	11/20/23 06:59	11/28/23 16:34	1
Tetrachloro-m-xylene	61		35 - 135	11/20/23 06:59	11/28/23 16:34	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB35@4

Lab Sample ID: 660-133058-2

Date Collected: 11/16/23 07:45

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 95.3

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
beta-BHC	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
delta-BHC	0.10	U	3.6	0.10	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
gamma-BHC (Lindane)	0.065	U	7.1	0.065	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Endosulfan II	0.086	U	3.6	0.086	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Endrin	0.048	U	3.6	0.048	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Endrin aldehyde	0.27	U	7.1	0.27	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Methoxychlor	0.30	U	3.6	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Endosulfan sulfate	0.17	U	7.1	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Endrin ketone	0.052	U	7.1	0.052	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Toxaphene	5.0	U	10	5.0	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Chlordane (technical)	3.7	U	10	3.7	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
alpha-Chlordane	0.087	U	3.6	0.087	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		25 - 145				11/20/23 06:59	11/28/23 14:33	1
Tetrachloro-m-xylene	84		35 - 135				11/20/23 06:59	11/28/23 14:33	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB36@4

Lab Sample ID: 660-133058-3

Date Collected: 11/16/23 09:00

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 95.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
beta-BHC	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
delta-BHC	0.10	U	3.6	0.10	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
gamma-BHC (Lindane)	0.065	U	7.2	0.065	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Endosulfan II	0.086	U	3.6	0.086	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Endrin	0.048	U	3.6	0.048	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Endrin aldehyde	0.27	U	7.2	0.27	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Methoxychlor	0.31	U	3.6	0.31	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Endosulfan sulfate	0.17	U	7.2	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Endrin ketone	0.052	U	7.2	0.052	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Toxaphene	5.0	U	11	5.0	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Chlordane (technical)	3.7	U	11	3.7	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
alpha-Chlordane	0.087	U	3.6	0.087	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		25 - 145				11/20/23 06:59	11/28/23 16:19	1
Tetrachloro-m-xylene	66		35 - 135				11/20/23 06:59	11/28/23 16:19	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB37@4

Lab Sample ID: 660-133058-4

Date Collected: 11/16/23 09:15

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 95.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
beta-BHC	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
delta-BHC	0.10	U	3.6	0.10	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
gamma-BHC (Lindane)	0.065	U	7.2	0.065	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Endosulfan II	0.086	U	3.6	0.086	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Endrin	0.048	U	3.6	0.048	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Endrin aldehyde	0.27	U	7.2	0.27	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Methoxychlor	0.30	U	3.6	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Endosulfan sulfate	0.17	U	7.2	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Endrin ketone	0.052	U	7.2	0.052	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Toxaphene	5.0	U	11	5.0	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
Chlordane (technical)	3.7	U	11	3.7	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
alpha-Chlordane	0.087	U	3.6	0.087	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	100		25 - 145	11/20/23 06:59	11/28/23 16:04	1
Tetrachloro-m-xylene	66		35 - 135	11/20/23 06:59	11/28/23 16:04	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB38@4

Lab Sample ID: 660-133058-5

Date Collected: 11/16/23 09:30

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 89.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.15	U	3.8	0.15	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
alpha-BHC	0.11	U	3.8	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
beta-BHC	0.23	U	3.8	0.23	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
delta-BHC	0.11	U	3.8	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
gamma-BHC (Lindane)	0.069	U	7.6	0.069	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
4,4'-DDD	0.22	U	3.8	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
4,4'-DDE	0.14	U	3.8	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
4,4'-DDT	0.31	U	3.8	0.31	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Dieldrin	0.18	U	3.8	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Endosulfan I	0.13	U	3.8	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Endosulfan II	0.091	U	3.8	0.091	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Endrin	0.051	U	3.8	0.051	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Endrin aldehyde	0.29	U	7.6	0.29	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Heptachlor	0.14	U	3.8	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Heptachlor epoxide	0.23	U	3.8	0.23	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Methoxychlor	0.32	U	3.8	0.32	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Endosulfan sulfate	0.18	U	7.6	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Endrin ketone	0.055	U	7.6	0.055	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Toxaphene	5.3	U	11	5.3	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
Chlordane (technical)	3.9	U	11	3.9	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
alpha-Chlordane	0.092	U	3.8	0.092	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1
gamma-Chlordane	0.17	U	3.8	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		25 - 145	11/20/23 06:59	11/28/23 15:49	1
Tetrachloro-m-xylene	69		35 - 135	11/20/23 06:59	11/28/23 15:49	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB39@4

Lab Sample ID: 660-133058-6

Date Collected: 11/16/23 09:45

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 92.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.7	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
alpha-BHC	0.11	U	3.7	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
beta-BHC	0.22	U	3.7	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
delta-BHC	0.11	U	3.7	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
gamma-BHC (Lindane)	0.067	U	7.4	0.067	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
4,4'-DDD	0.21	U	3.7	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
4,4'-DDE	0.14	U	3.7	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
4,4'-DDT	0.30	U	3.7	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Dieldrin	0.18	U	3.7	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Endosulfan I	0.12	U	3.7	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Endosulfan II	0.088	U	3.7	0.088	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Endrin	0.049	U	3.7	0.049	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Endrin aldehyde	0.28	U	7.4	0.28	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Heptachlor	0.13	U	3.7	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Heptachlor epoxide	0.22	U	3.7	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Methoxychlor	0.31	U	3.7	0.31	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Endosulfan sulfate	0.18	U	7.4	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Endrin ketone	0.053	U	7.4	0.053	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Toxaphene	5.1	U	11	5.1	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Chlordane (technical)	3.8	U	11	3.8	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
alpha-Chlordane	0.090	U	3.7	0.090	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
gamma-Chlordane	0.17	U	3.7	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		25 - 145				11/20/23 06:59	11/28/23 15:34	1
Tetrachloro-m-xylene	67		35 - 135				11/20/23 06:59	11/28/23 15:34	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB40@4

Lab Sample ID: 660-133058-7

Date Collected: 11/16/23 10:00

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 86.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	12		3.9	0.15	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
alpha-BHC	0.12	U	3.9	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
beta-BHC	0.24	U	3.9	0.24	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
delta-BHC	0.12	U	3.9	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
gamma-BHC (Lindane)	0.071	U	7.9	0.071	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
4,4'-DDD	0.23	U	3.9	0.23	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
4,4'-DDE	0.15	U	3.9	0.15	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
4,4'-DDT	0.32	U	3.9	0.32	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Dieldrin	12		3.9	0.19	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Endosulfan I	0.13	U	3.9	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Endosulfan II	0.094	U	3.9	0.094	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Endrin	0.053	U	3.9	0.053	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Endrin aldehyde	0.30	U	7.9	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Heptachlor	0.14	U	3.9	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Heptachlor epoxide	0.24	U	3.9	0.24	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Methoxychlor	0.33	U	3.9	0.33	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Endosulfan sulfate	0.19	U	7.9	0.19	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Endrin ketone	0.057	U	7.9	0.057	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Toxaphene	5.5	U	12	5.5	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
Chlordane (technical)	4.1	U	12	4.1	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
alpha-Chlordane	0.57	I	3.9	0.095	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1
gamma-Chlordane	0.69	I	3.9	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	66		25 - 145	11/20/23 06:59	11/28/23 15:19	1
Tetrachloro-m-xylene	56		35 - 135	11/20/23 06:59	11/28/23 15:19	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB41@4

Lab Sample ID: 660-133058-8

Date Collected: 11/16/23 10:15

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 94.0

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
beta-BHC	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
delta-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
gamma-BHC (Lindane)	0.065	U	7.2	0.065	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Endosulfan II	0.087	U	3.6	0.087	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Endrin	0.049	U	3.6	0.049	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Endrin aldehyde	0.28	U	7.2	0.28	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Methoxychlor	0.31	U	3.6	0.31	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Endosulfan sulfate	0.18	U	7.2	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Endrin ketone	0.052	U	7.2	0.052	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Toxaphene	5.0	U	11	5.0	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Chlordane (technical)	3.7	U	11	3.7	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
alpha-Chlordane	0.088	U	3.6	0.088	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		25 - 145				11/20/23 06:59	11/28/23 15:04	1
Tetrachloro-m-xylene	70		35 - 135				11/20/23 06:59	11/28/23 15:04	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB42@4

Lab Sample ID: 660-133058-9

Date Collected: 11/16/23 10:30

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 87.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.15	U	3.9	0.15	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
alpha-BHC	0.12	U	3.9	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
beta-BHC	0.23	U	3.9	0.23	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
delta-BHC	0.11	U	3.9	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
gamma-BHC (Lindane)	0.070	U	7.8	0.070	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
4,4'-DDD	0.22	U	3.9	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
4,4'-DDE	0.15	U	3.9	0.15	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
4,4'-DDT	0.32	U	3.9	0.32	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Dieldrin	0.19	U	3.9	0.19	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Endosulfan I	0.13	U	3.9	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Endosulfan II	0.093	U	3.9	0.093	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Endrin	0.052	U	3.9	0.052	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Endrin aldehyde	0.30	U	7.8	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Heptachlor	0.14	U	3.9	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Heptachlor epoxide	0.24	U	3.9	0.24	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Methoxychlor	0.33	U	3.9	0.33	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Endosulfan sulfate	0.19	U	7.8	0.19	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Endrin ketone	0.056	U	7.8	0.056	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Toxaphene	5.4	U	11	5.4	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
Chlordane (technical)	16		11	4.0	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
alpha-Chlordane	1.9	I	3.9	0.094	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1
gamma-Chlordane	1.7	I	3.9	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	102		25 - 145	11/20/23 06:59	11/28/23 14:49	1
Tetrachloro-m-xylene	60		35 - 135	11/20/23 06:59	11/28/23 14:49	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB43@4

Lab Sample ID: 660-133058-10

Date Collected: 11/16/23 10:45

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 96.4

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.5	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
alpha-BHC	0.11	U	3.5	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
beta-BHC	0.21	U	3.5	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
delta-BHC	0.10	U	3.5	0.10	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
gamma-BHC (Lindane)	0.064	U	7.1	0.064	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
4,4'-DDD	0.20	U	3.5	0.20	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
4,4'-DDE	0.13	U	3.5	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
4,4'-DDT	0.29	U	3.5	0.29	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Dieldrin	0.17	U	3.5	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Endosulfan I	0.12	U	3.5	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Endosulfan II	0.085	U	3.5	0.085	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Endrin	0.047	U	3.5	0.047	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Endrin aldehyde	0.27	U	7.1	0.27	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Heptachlor	0.13	U	3.5	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Heptachlor epoxide	0.21	U	3.5	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Methoxychlor	0.30	U	3.5	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Endosulfan sulfate	0.17	U	7.1	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Endrin ketone	0.051	U	7.1	0.051	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Toxaphene	4.9	U	10	4.9	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Chlordane (technical)	3.6	U	10	3.6	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
alpha-Chlordane	0.086	U	3.5	0.086	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
gamma-Chlordane	0.16	U	3.5	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	106		25 - 145				11/20/23 06:59	11/28/23 17:49	1
Tetrachloro-m-xylene	78		35 - 135				11/20/23 06:59	11/28/23 17:49	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB44@4

Lab Sample ID: 660-133058-11

Date Collected: 11/16/23 11:00

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 95.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
beta-BHC	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
delta-BHC	0.10	U	3.6	0.10	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
gamma-BHC (Lindane)	0.065	U	7.2	0.065	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Endosulfan II	0.086	U	3.6	0.086	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Endrin	0.048	U	3.6	0.048	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Endrin aldehyde	0.27	U	7.2	0.27	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Methoxychlor	0.30	U	3.6	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Endosulfan sulfate	0.17	U	7.2	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Endrin ketone	0.052	U	7.2	0.052	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Toxaphene	5.0	U	11	5.0	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
Chlordane (technical)	3.7	U	11	3.7	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
alpha-Chlordane	0.087	U	3.6	0.087	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	109		25 - 145	11/20/23 06:59	11/28/23 17:34	1
Tetrachloro-m-xylene	83		35 - 135	11/20/23 06:59	11/28/23 17:34	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB45@4

Lab Sample ID: 660-133058-12

Date Collected: 11/16/23 11:20

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 97.3

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.5	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
alpha-BHC	0.11	U	3.5	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
beta-BHC	0.21	U	3.5	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
delta-BHC	0.10	U	3.5	0.10	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
gamma-BHC (Lindane)	0.063	U	7.0	0.063	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
4,4'-DDD	0.20	U	3.5	0.20	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
4,4'-DDE	0.13	U	3.5	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
4,4'-DDT	0.28	U	3.5	0.28	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Dieldrin	0.17	U	3.5	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Endosulfan I	0.12	U	3.5	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Endosulfan II	0.084	U	3.5	0.084	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Endrin	0.047	U	3.5	0.047	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Endrin aldehyde	0.27	U	7.0	0.27	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Heptachlor	0.12	U	3.5	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Heptachlor epoxide	0.21	U	3.5	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Methoxychlor	0.30	U	3.5	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Endosulfan sulfate	0.17	U	7.0	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Endrin ketone	0.051	U	7.0	0.051	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Toxaphene	4.9	U	10	4.9	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
Chlordane (technical)	3.6	U	10	3.6	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
alpha-Chlordane	0.085	U	3.5	0.085	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1
gamma-Chlordane	0.16	U	3.5	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		25 - 145	11/20/23 06:59	11/28/23 17:19	1
Tetrachloro-m-xylene	76		35 - 135	11/20/23 06:59	11/28/23 17:19	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB46@4

Lab Sample ID: 660-133058-13

Date Collected: 11/16/23 11:40

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 94.9

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
alpha-BHC	0.11	U	3.6	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
beta-BHC	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
delta-BHC	0.10	U	3.6	0.10	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
gamma-BHC (Lindane)	0.065	U	7.2	0.065	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
4,4'-DDD	0.21	U	3.6	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
4,4'-DDE	0.14	U	3.6	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
4,4'-DDT	0.29	U	3.6	0.29	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Dieldrin	0.17	U	3.6	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Endosulfan I	0.12	U	3.6	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Endosulfan II	0.086	U	3.6	0.086	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Endrin	0.048	U	3.6	0.048	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Endrin aldehyde	0.27	U	7.2	0.27	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Heptachlor	0.13	U	3.6	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Heptachlor epoxide	0.22	U	3.6	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Methoxychlor	0.31	U	3.6	0.31	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Endosulfan sulfate	0.17	U	7.2	0.17	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Endrin ketone	0.052	U	7.2	0.052	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Toxaphene	5.0	U	11	5.0	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
Chlordane (technical)	3.7	U	11	3.7	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
alpha-Chlordane	0.087	U	3.6	0.087	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1
gamma-Chlordane	0.16	U	3.6	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		25 - 145	11/20/23 06:59	11/28/23 17:04	1
Tetrachloro-m-xylene	78		35 - 135	11/20/23 06:59	11/28/23 17:04	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB47@4

Lab Sample ID: 660-133058-14

Date Collected: 11/16/23 12:00

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 93.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.14	U	3.7	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
alpha-BHC	0.11	U	3.7	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
beta-BHC	0.22	U	3.7	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
delta-BHC	0.11	U	3.7	0.11	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
gamma-BHC (Lindane)	0.066	U	7.3	0.066	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
4,4'-DDD	0.21	U	3.7	0.21	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
4,4'-DDE	0.14	U	3.7	0.14	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
4,4'-DDT	0.30	U	3.7	0.30	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Dieldrin	0.18	U	3.7	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Endosulfan I	0.12	U	3.7	0.12	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Endosulfan II	0.088	U	3.7	0.088	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Endrin	0.049	U	3.7	0.049	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Endrin aldehyde	0.28	U	7.3	0.28	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Heptachlor	0.13	U	3.7	0.13	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Heptachlor epoxide	0.22	U	3.7	0.22	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Methoxychlor	0.31	U	3.7	0.31	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Endosulfan sulfate	0.18	U	7.3	0.18	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Endrin ketone	0.053	U	7.3	0.053	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Toxaphene	5.1	U	11	5.1	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
Chlordane (technical)	3.8	U	11	3.8	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
alpha-Chlordane	0.089	U	3.7	0.089	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1
gamma-Chlordane	0.16	U	3.7	0.16	ug/Kg	✱	11/20/23 06:59	11/28/23 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	105		25 - 145	11/20/23 06:59	11/28/23 16:49	1
Tetrachloro-m-xylene	80		35 - 135	11/20/23 06:59	11/28/23 16:49	1

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 670-64160/1-A

Matrix: Solid

Analysis Batch: 65093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 64160

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.13	U	3.4	0.13	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
alpha-BHC	0.10	U	3.4	0.10	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
beta-BHC	0.20	U	3.4	0.20	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
delta-BHC	0.10	U	3.4	0.10	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
gamma-BHC (Lindane)	0.062	U	6.8	0.062	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
4,4'-DDD	0.20	U	3.4	0.20	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
4,4'-DDE	0.13	U	3.4	0.13	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
4,4'-DDT	0.28	U	3.4	0.28	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Dieldrin	0.16	U	3.4	0.16	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Endosulfan I	0.11	U	3.4	0.11	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Endosulfan II	0.082	U	3.4	0.082	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Endrin	0.046	U	3.4	0.046	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Endrin aldehyde	0.26	U	6.8	0.26	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Heptachlor	0.12	U	3.4	0.12	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Heptachlor epoxide	0.21	U	3.4	0.21	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Methoxychlor	0.29	U	3.4	0.29	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Endosulfan sulfate	0.17	U	6.8	0.17	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Endrin ketone	0.049	U	6.8	0.049	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Toxaphene	4.7	U	10	4.7	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
Chlordane (technical)	3.5	U	10	3.5	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
alpha-Chlordane	0.083	U	3.4	0.083	ug/Kg		11/20/23 06:59	11/28/23 12:33	1
gamma-Chlordane	0.15	U	3.4	0.15	ug/Kg		11/20/23 06:59	11/28/23 12:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	159	J1	25 - 145	11/20/23 06:59	11/28/23 12:33	1
Tetrachloro-m-xylene	109		35 - 135	11/20/23 06:59	11/28/23 12:33	1

Lab Sample ID: LCS 670-64160/2-A

Matrix: Solid

Analysis Batch: 65093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 64160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	12.5	10.9		ug/Kg		87	48 - 170
gamma-Chlordane	12.5	11.1		ug/Kg		89	45 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	155	J1	25 - 145
Tetrachloro-m-xylene	103		35 - 135

Lab Sample ID: 660-133058-2 MS

Matrix: Solid

Analysis Batch: 65093

Client Sample ID: SB35@4

Prep Type: Total/NA

Prep Batch: 64160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
alpha-Chlordane	0.087	U	13.1	9.01		ug/Kg	☼	69	45 - 170
gamma-Chlordane	0.16	U	13.1	9.27		ug/Kg	☼	71	43 - 170

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QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 660-133058-2 MS

Matrix: Solid

Analysis Batch: 65093

Client Sample ID: SB35@4

Prep Type: Total/NA

Prep Batch: 64160

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	105		25 - 145
Tetrachloro-m-xylene	78		35 - 135

Lab Sample ID: 660-133058-2 MSD

Matrix: Solid

Analysis Batch: 65093

Client Sample ID: SB35@4

Prep Type: Total/NA

Prep Batch: 64160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
alpha-Chlordane	0.087	U	13.1	8.21		ug/Kg	✱	63	45 - 170	9	30
gamma-Chlordane	0.16	U	13.1	8.96		ug/Kg	✱	68	43 - 170	3	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	101		25 - 145
Tetrachloro-m-xylene	69		35 - 135

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

GC Semi VOA

Prep Batch: 64160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133058-1	SB34@4	Total/NA	Solid	3546	
660-133058-2	SB35@4	Total/NA	Solid	3546	
660-133058-3	SB36@4	Total/NA	Solid	3546	
660-133058-4	SB37@4	Total/NA	Solid	3546	
660-133058-5	SB38@4	Total/NA	Solid	3546	
660-133058-6	SB39@4	Total/NA	Solid	3546	
660-133058-7	SB40@4	Total/NA	Solid	3546	
660-133058-8	SB41@4	Total/NA	Solid	3546	
660-133058-9	SB42@4	Total/NA	Solid	3546	
660-133058-10	SB43@4	Total/NA	Solid	3546	
660-133058-11	SB44@4	Total/NA	Solid	3546	
660-133058-12	SB45@4	Total/NA	Solid	3546	
660-133058-13	SB46@4	Total/NA	Solid	3546	
660-133058-14	SB47@4	Total/NA	Solid	3546	
MB 670-64160/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-64160/2-A	Lab Control Sample	Total/NA	Solid	3546	
660-133058-2 MS	SB35@4	Total/NA	Solid	3546	
660-133058-2 MSD	SB35@4	Total/NA	Solid	3546	

Analysis Batch: 65093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133058-1	SB34@4	Total/NA	Solid	8081B	64160
660-133058-2	SB35@4	Total/NA	Solid	8081B	64160
660-133058-3	SB36@4	Total/NA	Solid	8081B	64160
660-133058-4	SB37@4	Total/NA	Solid	8081B	64160
660-133058-5	SB38@4	Total/NA	Solid	8081B	64160
660-133058-6	SB39@4	Total/NA	Solid	8081B	64160
660-133058-7	SB40@4	Total/NA	Solid	8081B	64160
660-133058-8	SB41@4	Total/NA	Solid	8081B	64160
660-133058-9	SB42@4	Total/NA	Solid	8081B	64160
660-133058-10	SB43@4	Total/NA	Solid	8081B	64160
660-133058-11	SB44@4	Total/NA	Solid	8081B	64160
660-133058-12	SB45@4	Total/NA	Solid	8081B	64160
660-133058-13	SB46@4	Total/NA	Solid	8081B	64160
660-133058-14	SB47@4	Total/NA	Solid	8081B	64160
MB 670-64160/1-A	Method Blank	Total/NA	Solid	8081B	64160
LCS 670-64160/2-A	Lab Control Sample	Total/NA	Solid	8081B	64160
660-133058-2 MS	SB35@4	Total/NA	Solid	8081B	64160
660-133058-2 MSD	SB35@4	Total/NA	Solid	8081B	64160

General Chemistry

Analysis Batch: 64270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133058-1	SB34@4	Total/NA	Solid	Moisture	
660-133058-2	SB35@4	Total/NA	Solid	Moisture	
660-133058-3	SB36@4	Total/NA	Solid	Moisture	
660-133058-4	SB37@4	Total/NA	Solid	Moisture	
660-133058-5	SB38@4	Total/NA	Solid	Moisture	
660-133033-A-5 DU	Duplicate	Total/NA	Solid	Moisture	

Eurofins Tampa

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

General Chemistry

Analysis Batch: 64326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133058-6	SB39@4	Total/NA	Solid	Moisture	
660-133058-7	SB40@4	Total/NA	Solid	Moisture	
660-133058-8	SB41@4	Total/NA	Solid	Moisture	
660-133058-9	SB42@4	Total/NA	Solid	Moisture	
660-133058-10	SB43@4	Total/NA	Solid	Moisture	
660-133058-11	SB44@4	Total/NA	Solid	Moisture	
660-133058-12	SB45@4	Total/NA	Solid	Moisture	
660-133058-13	SB46@4	Total/NA	Solid	Moisture	
660-133058-14	SB47@4	Total/NA	Solid	Moisture	
660-133058-6 DU	SB39@4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB34@4

Date Collected: 11/16/23 08:30

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB34@4

Date Collected: 11/16/23 08:30

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-1

Matrix: Solid

Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 16:34	FC	EET ORL

Client Sample ID: SB35@4

Date Collected: 11/16/23 07:45

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB35@4

Date Collected: 11/16/23 07:45

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-2

Matrix: Solid

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 14:33	FC	EET ORL

Client Sample ID: SB36@4

Date Collected: 11/16/23 09:00

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB36@4

Date Collected: 11/16/23 09:00

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-3

Matrix: Solid

Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 16:19	FC	EET ORL

Client Sample ID: SB37@4

Date Collected: 11/16/23 09:15

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Eurofins Tampa

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB37@4

Date Collected: 11/16/23 09:15

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-4

Matrix: Solid

Percent Solids: 95.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 16:04	FC	EET ORL

Client Sample ID: SB38@4

Date Collected: 11/16/23 09:30

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64270	11/20/23 12:10	RB	EET ORL

Client Sample ID: SB38@4

Date Collected: 11/16/23 09:30

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-5

Matrix: Solid

Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 15:49	FC	EET ORL

Client Sample ID: SB39@4

Date Collected: 11/16/23 09:45

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Client Sample ID: SB39@4

Date Collected: 11/16/23 09:45

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-6

Matrix: Solid

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 15:34	FC	EET ORL

Client Sample ID: SB40@4

Date Collected: 11/16/23 10:00

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB40@4

Date Collected: 11/16/23 10:00

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-7

Matrix: Solid

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 15:19	FC	EET ORL

Client Sample ID: SB41@4

Date Collected: 11/16/23 10:15

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Client Sample ID: SB41@4

Date Collected: 11/16/23 10:15

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-8

Matrix: Solid

Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 15:04	FC	EET ORL

Client Sample ID: SB42@4

Date Collected: 11/16/23 10:30

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Client Sample ID: SB42@4

Date Collected: 11/16/23 10:30

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-9

Matrix: Solid

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 14:49	FC	EET ORL

Client Sample ID: SB43@4

Date Collected: 11/16/23 10:45

Date Received: 11/17/23 13:10

Lab Sample ID: 660-133058-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB43@4

Lab Sample ID: 660-133058-10

Date Collected: 11/16/23 10:45

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 96.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 17:49	FC	EET ORL

Client Sample ID: SB44@4

Lab Sample ID: 660-133058-11

Date Collected: 11/16/23 11:00

Matrix: Solid

Date Received: 11/17/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Client Sample ID: SB44@4

Lab Sample ID: 660-133058-11

Date Collected: 11/16/23 11:00

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 17:34	FC	EET ORL

Client Sample ID: SB45@4

Lab Sample ID: 660-133058-12

Date Collected: 11/16/23 11:20

Matrix: Solid

Date Received: 11/17/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Client Sample ID: SB45@4

Lab Sample ID: 660-133058-12

Date Collected: 11/16/23 11:20

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 17:19	FC	EET ORL

Client Sample ID: SB46@4

Lab Sample ID: 660-133058-13

Date Collected: 11/16/23 11:40

Matrix: Solid

Date Received: 11/17/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Client Sample ID: SB46@4

Lab Sample ID: 660-133058-13

Date Collected: 11/16/23 11:40

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 94.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 17:04	FC	EET ORL

Client Sample ID: SB47@4

Lab Sample ID: 660-133058-14

Date Collected: 11/16/23 12:00

Matrix: Solid

Date Received: 11/17/23 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			64326	11/20/23 14:05	RB	EET ORL

Client Sample ID: SB47@4

Lab Sample ID: 660-133058-14

Date Collected: 11/16/23 12:00

Matrix: Solid

Date Received: 11/17/23 13:10

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	64160	11/20/23 06:59	YM	EET ORL
Total/NA	Analysis	8081B		1			65093	11/28/23 16:49	FC	EET ORL

Laboratory References:

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation Site 34/48

Job ID: 660-133058-1

Laboratory: Eurofins Orlando

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	42800	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

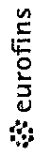
Eurofins Tampa

6712 Benjamin Road Suite 100
Tampa, FL 33634

Phone (813) 885-7427 Phone (813) 885-7049

Chain of Custody Record

660-Tampa



Environment Testing

Client Information		Sampler		Lab Pkt:		Carrier Tracking No(s):		COC No:	
Client Contact: Chad Ramey		Phone: 813-981-4132		Pasipanki, Carlene		State of Origin:		660-119238-38051.5	
Company: Aptim Environmental & Infrastructure Inc		PWSID:		E-Mail: carlene.pasipanki@et.eurofins.com		Page 5 of 5		Job #:	
Address: 725 US Highway 301 South		Due Date Requested:		Analysis Requested		Preservation Codes:		M Hexane N None O AsNaO2 P Na2OAS Q Na2SO3 R Na2SO4 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
City: Tampa		TAT Requested (days): 3-5 Day TAT		Field Filtered Sample (Yes or No):		Total Number of Containers		Special Instructions/Note:	
State, Zip: FL, 33619		Compliance Project: ☐ Yes ☐ No		Matrix (Water, Solid, Other)		8081B Pesticides			
Phone:		PO #:		Sample Type (C=Comp, G=Grab)		Field Filtered Sample (Yes or No)			
Email: chad.ramey@aptim.com		IWO #: 631025979		Sample Date		Sample Time			
Project Name: FDOT District 7-I-275 Soil Delineation Site34/48		Project #: 66013579		Preservation Code		Sample Date			
Site:		SSOW#:		Sample Date		Sample Time			
Sample Identification	SB34e4	11/16/23	0830	Grab	Solid	☒	☒	☒	
	SB35e4		0835		Solid	☒	☒	☒	
	SB36e4		0900		Solid	☒	☒	☒	
	SB37e4		0915			☒	☒	☒	
	SB38e4		0930			☒	☒	☒	
	SB39e4		0945			☒	☒	☒	
	SB40e4		1000			☒	☒	☒	
	SB41e4		1015			☒	☒	☒	
	SB42e4		1030			☒	☒	☒	
	SB43e4		1045			☒	☒	☒	
	SB44e4		1100			☒	☒	☒	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological									
Deliverable Requested: I II III IV Other (specify)									
Empty Kit Relinquished by: [Signature] Date: 11/18/23 Time: 9:00									
Relinquished by: Chad Ramey Date: 11/16/23 Time: 1500									
Relinquished by: [Signature] Date: 11/23/23 Time: 1200									
Relinquished by: [Signature] Date: 11/23/23 Time: 1310									
Custody Seals Intact: ☐ Yes ☐ No									
Custody Seal No. 0.8 cm109									
Cooler Temperature(s) °C and Other Remarks:									

Loc 660
133058

660-133058 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

Method of Shipment: [Signature]

Relinquished by: [Signature]

Company: [Signature]

Date/Time: 11/23/23 9:50

Company: [Signature]

Date/Time: 11/19-23 1310

Company: [Signature]

Date/Time: [Signature]

Company: [Signature]

Date/Time: [Signature]

Company: [Signature]

Date/Time: [Signature]

Company: [Signature]

Eurofins Tampa

6712 Benjamin Road Suite 100

Tampa FL 33634

Phone (813) 885-7427 Phone (813) 885-7049

Chain of Custody Record

660-Tampa



Environment Testing

Client Information Client Contact: Chad Ramey Phone: 813-981-4132 Email: carlene.pasipanki@eurofins.com		Lab PM: Pasipanki, Carlene E-Mail: carlene.pasipanki@eurofins.com		Carrier Tracking No(s): State of Origin:		DOC No: 660-119238-38051.5 Page: Page 5 of 5 Job #:	
Company: Aptim Environmental & Infrastructure Inc Address: 725 US Highway 301 South City: Tampa State, Zip: FL, 33619 Phone:		PWSID:		Analysis Requested			
Due Date Requested: TAT Requested (days): 3-5 Day TAT Compliance Project: ☐ Yes ☒ No PO #:		WO #: 631025979 Project #: 66013579 SSOW#:		Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Z other (specify)			
Sample Identification Sample Date Sample Time Sample Type (C=Comp, G=Grab) Matrix (liquid, solid, or semi-solid)		Field Filtered Sample (Yes or No) 8081B Pesticides 8081B Pesticides		Total Number of Containers Special Instructions/Note:			
SB3424 SB3524 SB3624 SB3724 SB3824 SB3924 SB4024 SB4124 SB4224 SB4324 SB4424		11/16/23 0830 0845 0900 0915 0930 0945 1000 1015 1030 1045 1100		Grab Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid		X X X X X X X X X X X	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months			
Empty Kit Relinquished by: Chad Ramey Relinquished by: Chad Ramey Relinquished by:		Date/Time: 11/16/23 1500 Date/Time: 11/22/23 1200 Date/Time:		Method of Shipment: 2860000 Date/Time: 11/22/23 0930 Date/Time: 11/19/23 1310 Date/Time:		Company: EPA Company: EPA Company:	
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 0.8 cm1009		Loc: 660 133058			

Client Information Client Contact: Chad Ramey Phone: 813-981-4132		Lab PM: Pasipanki, Carlene E-Mail: carlene.pasipanki@et.eurofinsus.com		Carrier Tracking No(s): 660-119238-38051.5 Page: 5 of 5	
Company: Aptim Environmental & Infrastructure Inc Address: 725 US Highway 301 South City: Tampa State, Zip: FL, 33619 Phone:		Analysis Requested			
Due Date Requested: TAT Requested (days): 3-5 Day TAT Compliance Project: ☐ Yes ☒ No PO #:		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)			
WO #: 631025979 Project #: 66013579 SSON#:		Total Number of containers:			
Sample Identification SB455E4 SB460E4 SB470E4		Sample Date 11/15/13 11/15/13 11/15/13	Sample Time 1120 1140 1200	Sample Type (C=Comp, G=grab) Grab L L	Matrix (W=water, S=solid, O=other) Solid Solid Solid
Special Instructions/Note:		Special Instructions/Note:			

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiobiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months	
Deliverable Requested: I II III IV Other (specify)		Special Instructions/QC Requirements:	

Empty Kit Relinquished by: Chad Ramey Relinquished by: Chad Ramey Relinquished by:		Date/Time: 11/15/13 1500 Date/Time: 11/15/13 1500 Date/Time:		Date/Time: 11/15/13 1500 Date/Time: 11/15/13 1500 Date/Time:	
Relinquished by:		Relinquished by:		Relinquished by:	

Custody Seal No. A Yes A No		Cooler Temperature(s) °C and Other Remarks: 9.8 11/15/13	
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eurolins | Environment Testing

Client Information (Sub Contract Lab)		Lab PM: Pasipanki, Carlene		Carrier Tracking No(s):		COC No: 660-143723.1															
Client Contact: Shipping/Receiving		Phone:		E-Mail: carlene.pasipanki@et.eurofinsus.com		Page: Page 1 of 2															
Company: Eurofins Environment Testing Southeast,		Address: 481 Newburyport Avenue,		Accreditations Required (See note): NELAP - Florida		Job #: 660-133058-1															
City: Altamonte Springs		State, Zip: FL, 32701		Due Date Requested: 11/27/2023		TAT Requested (days):															
Phone: 407-339-5984(Tel) 407-260-6110(Fax)		PO #:		WO #:		Project #: 66013579															
Email:		SSOW#:		Project Name: FDOT District 7		Site:															
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Field Filtered Sample (Yes or No)		Perform IMS/MSD (Yes or No)		Moisture		8081B/3546 Pesticides		Total Number of containers		Special Instructions/Note:	
SB34@4 (660-133058-1)		11/16/23		08:30 Eastern				Solid						X		X		1			
SB35@4 (660-133058-2)		11/16/23		07:45 Eastern				Solid						X		X		1			
SB36@4 (660-133058-3)		11/16/23		09:00 Eastern				Solid						X		X		1			
SB37@4 (660-133058-4)		11/16/23		09:15 Eastern				Solid						X		X		1			
SB38@4 (660-133058-5)		11/16/23		09:30 Eastern				Solid						X		X		1			
SB39@4 (660-133058-6)		11/16/23		09:45 Eastern				Solid						X		X		1			
SB40@4 (660-133058-7)		11/16/23		10:00 Eastern				Solid						X		X		1			
SB41@4 (660-133058-8)		11/16/23		10:15 Eastern				Solid						X		X		1			
SB42@4 (660-133058-9)		11/16/23		10:30 Eastern				Solid						X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.																					
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Unconfirmed										☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months											
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:											
Empty Kit Relinquished by:										Date:											
Relinquished by:										Date/Time:											
Relinquished by:										Date/Time:											
Relinquished by:										Date/Time:											
Custody Seals Intact: ☐ Yes ☐ No										Custody Seal No.:											
Cooler Temperature(s) °C and Other Remarks:																					

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-133058-1

Login Number: 133058

List Source: Eurofins Tampa

List Number: 1

Creator: Grohman, Tina

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.	True	
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: Aptim Environmental & Infrastructure Inc

Job Number: 660-133058-1

Login Number: 133058

List Number: 2

Creator: Bittle, David W

List Source: Eurofins Orlando

List Creation: 11/18/23 08:57 AM

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.	True	
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	



ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 1/16/2024 11:58:28 AM

JOB DESCRIPTION

FDOT District I-275 Soil Delineation

JOB NUMBER

660-133959-1

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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1/16/2024 11:58:28 AM

Authorized for release by
Carlene Pasipanki, Project Manager
carlene.pasipanki@et.eurofinsus.com
(321)282-6397

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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-133959-1	SB48	Solid	01/12/24 08:45	01/12/24 09:05

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Job ID: 660-133959-1

Lab Sample ID: 660-133959-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Dieldrin	3.4	I	7.3	0.35	ug/Kg	2		⚙	8081B	Total/NA

Eurofins Tampa

Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

Job ID: 660-133959-1

Eurofins Tampa

Job Narrative 660-133959-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/12/2024 9:05 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C

Pesticides

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

General Chemistry

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

Eurofins Tampa

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

Qualifiers

GC 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.

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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

Client Sample ID: SB48

Lab Sample ID: 660-133959-1

Date Collected: 01/12/24 08:45

Matrix: Solid

Date Received: 01/12/24 09:05

Percent Solids: 93.1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	3.4	I	7.3	0.35	ug/Kg	☼	01/15/24 08:30	01/15/24 16:54	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	72		25 - 145				01/15/24 08:30	01/15/24 16:54	2
Tetrachloro-m-xylene	90		35 - 135				01/15/24 08:30	01/15/24 16:54	2

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 670-71506/1-A

Matrix: Solid

Analysis Batch: 71556

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 71506

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.16	U	3.4	0.16	ug/Kg		01/15/24 08:30	01/15/24 15:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		25 - 145				01/15/24 08:30	01/15/24 15:41	1
Tetrachloro-m-xylene	74		35 - 135				01/15/24 08:30	01/15/24 15:41	1

Lab Sample ID: LCS 670-71506/18-A

Matrix: Solid

Analysis Batch: 71556

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 71506

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	87		25 - 145
Tetrachloro-m-xylene	67		35 - 135

Lab Sample ID: 660-133959-1 MS

Matrix: Solid

Analysis Batch: 71556

Client Sample ID: SB48

Prep Type: Total/NA

Prep Batch: 71506

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	100		25 - 145
Tetrachloro-m-xylene	68		35 - 135

Lab Sample ID: 660-133959-1 MSD

Matrix: Solid

Analysis Batch: 71556

Client Sample ID: SB48

Prep Type: Total/NA

Prep Batch: 71506

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	114		25 - 145
Tetrachloro-m-xylene	81		35 - 135

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

GC Semi VOA

Prep Batch: 71506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133959-1	SB48	Total/NA	Solid	3546	
MB 670-71506/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-71506/18-A	Lab Control Sample	Total/NA	Solid	3546	
660-133959-1 MS	SB48	Total/NA	Solid	3546	
660-133959-1 MSD	SB48	Total/NA	Solid	3546	

Analysis Batch: 71556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133959-1	SB48	Total/NA	Solid	8081B	71506
MB 670-71506/1-A	Method Blank	Total/NA	Solid	8081B	71506
LCS 670-71506/18-A	Lab Control Sample	Total/NA	Solid	8081B	71506
660-133959-1 MS	SB48	Total/NA	Solid	8081B	71506
660-133959-1 MSD	SB48	Total/NA	Solid	8081B	71506

General Chemistry

Analysis Batch: 71581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-133959-1	SB48	Total/NA	Solid	Moisture	
660-133973-A-10 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

Client Sample ID: SB48
Date Collected: 01/12/24 08:45
Date Received: 01/12/24 09:05

Lab Sample ID: 660-133959-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			71581	01/15/24 14:37	RB	EET ORL

Client Sample ID: SB48
Date Collected: 01/12/24 08:45
Date Received: 01/12/24 09:05

Lab Sample ID: 660-133959-1
Matrix: Solid
Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	71506	01/15/24 08:30	YM	EET ORL
Total/NA	Analysis	8081B		2			71556	01/15/24 16:54	FC	EET ORL

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District I-275 Soil Delineation

Job ID: 660-133959-1

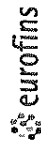
Laboratory: Eurofins Orlando

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	42800	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

Eurofins TestAmerica, Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634-4403
phone 813.885.7427 fax 813.885.7049

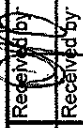
Chain of Custody Record



TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Regulatory Program. ☐ DW ☐ NPDES ☐ RCRA ☐ Other

COC No: 1 of 1 COCs

Client Contact		Project Manager Jessica Jordan		Site Contact:		Date:	
APTIM		Email: Jessica.Jordan@aptim.com		Lab Contact:		Carrier	
725 US Hwy 301 S		Tampa, FL 33619		TALS Project #:		Sampler: Chad Ramey	
(813) 612-3600		Phone FAX		For Lab Use Only		Walk-in Client:	
(xxx) xxx-xxxx		Project Name: FDOT I-275 Soil Delineation		Lab Sampling		Job / SDG No.	
Site: 43/48		P O #		Dieldrin by EPA 8081B		Sample Specific Notes:	
SB48 27		Sample Date		Sample Type (C=Comp, G=Grab)		# of Cont.	
1/12/24		0845		G		50 1	
Loc: 660		133959					
		660-133959 Chain of Custody					
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other							
Possible Hazard Identification.							
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.							
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant		☐ Poison B ☐ Unknown		☐ Return to Client ☐ Disposal by Lab ☐ Archive for		Months	
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.		Cooler Temp. (°C): Obs'd: 5.2 Cor'd: 4.9		Therm ID No.: 0071003	
Relinquished by: 		Company: APTIM		Received by: 		Date/Time: 1/12/24 0905	
Relinquished by:		Company:		Received by:		Date/Time:	
Relinquished by:		Company:		Received in Laboratory by:		Date/Time:	

6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone: 813-885-7427 Fax: 813-885-7049

Environment Testing

Page 16 of 18

Ver: 06/08/2021/16/2024

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-133959-1

Login Number: 133959

List Source: Eurofins Tampa

List Number: 1

Creator: Ortiz, Daniel

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.	True	
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: Aptim Environmental & Infrastructure Inc

Job Number: 660-133959-1

Login Number: 133959

List Number: 2

Creator: Wehr, Alex C

List Source: Eurofins Orlando

List Creation: 01/13/24 10:52 AM

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.	True	
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	



ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 1/26/2024 11:03:07 AM

JOB DESCRIPTION

FDOT District 7-1-275 Soil Delineation

JOB NUMBER

660-134114-1

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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1/26/2024 11:03:07 AM

Authorized for release by
Carlene Pasipanki, Project Manager
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(321)282-6397

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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-134114-1	SB50@4	Solid	01/23/24 09:20	01/23/24 10:45
660-134114-2	SB52@4	Solid	01/23/24 09:30	01/23/24 10:45
660-134114-3	SB51@4	Solid	01/23/24 09:40	01/23/24 10:45
660-134114-4	SB49@4	Solid	01/23/24 09:50	01/23/24 10:45
660-134114-5	SB53@4	Solid	01/23/24 10:00	01/23/24 10:45

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Client Sample ID: SB50@4

Lab Sample ID: 660-134114-1

No Detections.

Client Sample ID: SB52@4

Lab Sample ID: 660-134114-2

No Detections.

Client Sample ID: SB51@4

Lab Sample ID: 660-134114-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	7.9	I	18	0.86	ug/Kg	5	✱	8081B	Total/NA

Client Sample ID: SB49@4

Lab Sample ID: 660-134114-4

No Detections.

Client Sample ID: SB53@4

Lab Sample ID: 660-134114-5

No Detections.

This Detection Summary does not include radiochemical test results.

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Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Job ID: 660-134114-1

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Job Narrative 660-134114-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/23/2024 10:45 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 time was 3.3°C

Pesticides

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

General Chemistry

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

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Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Qualifiers

GC 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.

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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Client Sample ID: SB50@4

Lab Sample ID: 660-134114-1

Date Collected: 01/23/24 09:20

Matrix: Solid

Date Received: 01/23/24 10:45

Percent Solids: 88.9

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.18	U	3.8	0.18	ug/Kg	☼	01/24/24 11:19	01/25/24 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		25 - 145				01/24/24 11:19	01/25/24 19:12	1
Tetrachloro-m-xylene	62		35 - 135				01/24/24 11:19	01/25/24 19:12	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Client Sample ID: SB52@4
Date Collected: 01/23/24 09:30
Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-2
Matrix: Solid
Percent Solids: 96.1

Method: SW846 8081B - Organochlorine Pesticides (GC)										
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Dieldrin	0.17	U	3.5	0.17	ug/Kg	☼	01/24/24 11:19	01/25/24 19:27	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
DCB Decachlorobiphenyl	120		25 - 145				01/24/24 11:19	01/25/24 19:27	1	
Tetrachloro-m-xylene	53		35 - 135				01/24/24 11:19	01/25/24 19:27	1	

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Client Sample ID: SB51@4

Lab Sample ID: 660-134114-3

Date Collected: 01/23/24 09:40

Matrix: Solid

Date Received: 01/23/24 10:45

Percent Solids: 95.3

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	7.9	I	18	0.86	ug/Kg	☼	01/24/24 11:19	01/25/24 19:42	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	94		25 - 145				01/24/24 11:19	01/25/24 19:42	5
Tetrachloro-m-xylene	72		35 - 135				01/24/24 11:19	01/25/24 19:42	5

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Client Sample ID: SB49@4

Lab Sample ID: 660-134114-4

Date Collected: 01/23/24 09:50

Matrix: Solid

Date Received: 01/23/24 10:45

Percent Solids: 90.6

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.18	U	3.8	0.18	ug/Kg	☼	01/24/24 11:19	01/25/24 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	122		25 - 145				01/24/24 11:19	01/25/24 19:57	1
Tetrachloro-m-xylene	62		35 - 135				01/24/24 11:19	01/25/24 19:57	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Client Sample ID: SB53@4

Lab Sample ID: 660-134114-5

Date Collected: 01/23/24 10:00

Matrix: Solid

Date Received: 01/23/24 10:45

Percent Solids: 94.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.17	U	3.6	0.17	ug/Kg	☼	01/24/24 11:19	01/25/24 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		25 - 145				01/24/24 11:19	01/25/24 20:12	1
Tetrachloro-m-xylene	54		35 - 135				01/24/24 11:19	01/25/24 20:12	1

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 670-72947/1-A

Matrix: Solid

Analysis Batch: 73136

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 72947

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.16	U	3.4	0.16	ug/Kg		01/24/24 11:19	01/25/24 16:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	124		25 - 145				01/24/24 11:19	01/25/24 16:57	1
Tetrachloro-m-xylene	66		35 - 135				01/24/24 11:19	01/25/24 16:57	1

Lab Sample ID: LCS 670-72947/2-A

Matrix: Solid

Analysis Batch: 73136

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 72947

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	124		25 - 145
Tetrachloro-m-xylene	60		35 - 135

Lab Sample ID: 660-134110-A-1-A MS

Matrix: Solid

Analysis Batch: 73136

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 72947

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	114		25 - 145
Tetrachloro-m-xylene	47		35 - 135

Lab Sample ID: 660-134110-A-1-B MSD

Matrix: Solid

Analysis Batch: 73136

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 72947

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	134		25 - 145
Tetrachloro-m-xylene	54		35 - 135

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

GC Semi VOA

Prep Batch: 72947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134114-1	SB50@4	Total/NA	Solid	3546	
660-134114-2	SB52@4	Total/NA	Solid	3546	
660-134114-3	SB51@4	Total/NA	Solid	3546	
660-134114-4	SB49@4	Total/NA	Solid	3546	
660-134114-5	SB53@4	Total/NA	Solid	3546	
MB 670-72947/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-72947/2-A	Lab Control Sample	Total/NA	Solid	3546	
660-134110-A-1-A MS	Matrix Spike	Total/NA	Solid	3546	
660-134110-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 73136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134114-1	SB50@4	Total/NA	Solid	8081B	72947
660-134114-2	SB52@4	Total/NA	Solid	8081B	72947
660-134114-3	SB51@4	Total/NA	Solid	8081B	72947
660-134114-4	SB49@4	Total/NA	Solid	8081B	72947
660-134114-5	SB53@4	Total/NA	Solid	8081B	72947
MB 670-72947/1-A	Method Blank	Total/NA	Solid	8081B	72947
LCS 670-72947/2-A	Lab Control Sample	Total/NA	Solid	8081B	72947
660-134110-A-1-A MS	Matrix Spike	Total/NA	Solid	8081B	72947
660-134110-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	72947

General Chemistry

Analysis Batch: 72937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134114-1	SB50@4	Total/NA	Solid	Moisture	
660-134114-3	SB51@4	Total/NA	Solid	Moisture	
660-134114-4	SB49@4	Total/NA	Solid	Moisture	
660-134114-5	SB53@4	Total/NA	Solid	Moisture	
670-33517-C-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 73171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134114-2	SB52@4	Total/NA	Solid	Moisture	
660-134114-2 DU	SB52@4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Client Sample ID: SB50@4

Date Collected: 01/23/24 09:20

Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			72937	01/24/24 09:39	RB	EET ORL

Client Sample ID: SB50@4

Date Collected: 01/23/24 09:20

Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-1

Matrix: Solid

Percent Solids: 88.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	72947	01/24/24 11:19	YM	EET ORL
Total/NA	Analysis	8081B		1			73136	01/25/24 19:12	MC	EET ORL

Client Sample ID: SB52@4

Date Collected: 01/23/24 09:30

Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			73171	01/25/24 11:21	RB	EET ORL

Client Sample ID: SB52@4

Date Collected: 01/23/24 09:30

Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-2

Matrix: Solid

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	72947	01/24/24 11:19	YM	EET ORL
Total/NA	Analysis	8081B		1			73136	01/25/24 19:27	MC	EET ORL

Client Sample ID: SB51@4

Date Collected: 01/23/24 09:40

Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			72937	01/24/24 09:39	RB	EET ORL

Client Sample ID: SB51@4

Date Collected: 01/23/24 09:40

Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-3

Matrix: Solid

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	72947	01/24/24 11:19	YM	EET ORL
Total/NA	Analysis	8081B		5			73136	01/25/24 19:42	MC	EET ORL

Client Sample ID: SB49@4

Date Collected: 01/23/24 09:50

Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			72937	01/24/24 09:39	RB	EET ORL

Eurofins Tampa

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Client Sample ID: SB49@4
Date Collected: 01/23/24 09:50
Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-4
Matrix: Solid
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	72947	01/24/24 11:19	YM	EET ORL
Total/NA	Analysis	8081B		1			73136	01/25/24 19:57	MC	EET ORL

Client Sample ID: SB53@4
Date Collected: 01/23/24 10:00
Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			72937	01/24/24 09:39	RB	EET ORL

Client Sample ID: SB53@4
Date Collected: 01/23/24 10:00
Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-5
Matrix: Solid
Percent Solids: 94.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	72947	01/24/24 11:19	YM	EET ORL
Total/NA	Analysis	8081B		1			73136	01/25/24 20:12	MC	EET ORL

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-1

Laboratory: Eurofins Orlando

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	42800	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

[illegible]

Eurofins Tampa

6712 Benjamin Road Suite 100

Tampa, FL 33634

Phone: 813-885-7427 Fax: 813-885-7049

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Pasipanki, Carlene		Carrier Tracking No(s):		COC No: 660-144124.1					
Client Contact: Shipping/Receiving		Phone:		E-Mail: carlene.pasipanki@et.eurofinsus.com		State of Origin: Florida		Page: Page 1 of 1					
Company: Eurofins Environment Testing Southeast,				Accreditations Required (See note): NELAP - Florida				Job #: 660-134114-1					
Address: 481 Newburyport Avenue, City: Altamonte Springs State, Zip: FL, 32701 Phone: 407-339-5984(Tel) 407-260-6110(Fax) Email:		Due Date Requested: 1/29/2024 TAT Requested (days):		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 R - Na2SO3 F - MeOH S - H2SO4 G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone I - Ice V - MCAA J - DI Water W - pH 4-5 K - EDTA Y - Trizma L - EDA Z - other (specify) Other:			
Project Name: FDOT District 7-1-275 Soil Delineation Site:		Project #: 66013579 SSOW#		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8081B/3546 (MOD) 8081 Dieldrin Only Moisture 8081B/3546 (MOD) 8081 Dieldrin Only (Hold) Moisture (Hold)						Total Number of containers			
Sample Identification - Client ID (Lab ID)		Sample Date Sample Time Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)											
Preservation Code:										Special Instructions/Note:			
SB50@4 (660-134114-1)		1/23/24 09:20 Eastern		Solid		X X						1	
SB52@4 (660-134114-2)		1/23/24 09:30 Eastern		Solid		X X						1	
SB51@4 (660-134114-3)		1/23/24 09:40 Eastern		Solid		X X						1	
SB49@4 (660-134114-4)		1/23/24 09:50 Eastern		Solid		X X						1	
SB53@4 (660-134114-5)		1/23/24 10:00 Eastern		Solid		X X						1	
SB56@4 (660-134114-6)		1/23/24 10:10 Eastern		Solid		X X						1	
SB55@4 (660-134114-7)		1/23/24 10:20 Eastern		Solid		X X						1	
SB54@4 (660-134114-8)		1/23/24 10:30 Eastern		Solid		X X						1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.													
Possible Hazard Identification Unconfirmed						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)						Primary Deliverable Rank: 2						Special Instructions/QC Requirements:	
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:					
Relinquished by:		Date/Time: 1-23-24 1300		Company: ETPA		Received by:		Date/Time: 1-24 800		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seal Intact: Custody Seal No.:						Cooler Temperature(s) °C and Other Remarks: 1.1							

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-134114-1

Login Number: 134114

List Source: Eurofins Tampa

List Number: 1

Creator: Grohman, Tina

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.	True	
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: Aptim Environmental & Infrastructure Inc

Job Number: 660-134114-1

Login Number: 134114

List Number: 2

Creator: Beck, Brent

List Source: Eurofins Orlando

List Creation: 01/24/24 06:02 AM

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.	True	
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	



ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 1/31/2024 11:53:02 AM

JOB DESCRIPTION

FDOT District 7-1-275 Soil Delineation

JOB NUMBER

660-134114-2

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
1/31/2024 11:53:02 AM

Authorized for release by
Carlene Pasipanki, Project Manager
carlene.pasipanki@et.eurofinsus.com
(321)282-6397

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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-134114-7	SB55@4	Solid	01/23/24 10:20	01/23/24 10:45
660-134114-8	SB54@4	Solid	01/23/24 10:30	01/23/24 10:45

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Client Sample ID: SB55@4

Lab Sample ID: 660-134114-7

No Detections.

Client Sample ID: SB54@4

Lab Sample ID: 660-134114-8

No Detections.

This Detection Summary does not include radiochemical test results.

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Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Job ID: 660-134114-2

Eurofins Tampa

Job Narrative 660-134114-2

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/23/2024 10:45 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 time was 3.3°C

Pesticides

Method 8081B: The surrogate Tetrachloro-m-xylene recovery for the blank associated with preparation batch 670-73423 and analytical batch 670-73579 was outside the control limits. The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

Method 8081B: The Tetrachloro-m-xylene surrogate recovery for the following samples was outside acceptance limits (low biased) on the primary column: SB55@4 (660-134114-7). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

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

General Chemistry

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

Eurofins Tampa

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J1	Estimated value; value may not be accurate. Surrogate recovery outside of criteria.
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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Client Sample ID: SB55@4

Lab Sample ID: 660-134114-7

Date Collected: 01/23/24 10:20

Matrix: Solid

Date Received: 01/23/24 10:45

Percent Solids: 87.8

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.19	U	3.9	0.19	ug/Kg	☼	01/26/24 14:26	01/29/24 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	99		25 - 145				01/26/24 14:26	01/29/24 13:07	1
Tetrachloro-m-xylene	34	J1	35 - 135				01/26/24 14:26	01/29/24 13:07	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Client Sample ID: SB54@4

Lab Sample ID: 660-134114-8

Date Collected: 01/23/24 10:30

Matrix: Solid

Date Received: 01/23/24 10:45

Percent Solids: 95.5

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.17	U	3.6	0.17	ug/Kg	☼	01/26/24 14:26	01/29/24 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	103		25 - 145				01/26/24 14:26	01/29/24 12:52	1
Tetrachloro-m-xylene	45		35 - 135				01/26/24 14:26	01/29/24 12:52	1

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 670-73423/1-A

Matrix: Solid

Analysis Batch: 73579

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73423

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.16	U	3.4	0.16	ug/Kg		01/26/24 14:26	01/29/24 11:11	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	101		25 - 145				01/26/24 14:26	01/29/24 11:11	1
Tetrachloro-m-xylene	29	J1	35 - 135				01/26/24 14:26	01/29/24 11:11	1

Lab Sample ID: LCS 670-73423/2-A

Matrix: Solid

Analysis Batch: 73579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73423

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	109		25 - 145
Tetrachloro-m-xylene	36		35 - 135

Lab Sample ID: 185-830-A-3-A MS

Matrix: Solid

Analysis Batch: 73579

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 73423

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	99		25 - 145
Tetrachloro-m-xylene	53		35 - 135

Lab Sample ID: 185-830-A-3-B MSD

Matrix: Solid

Analysis Batch: 73579

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 73423

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	89		25 - 145
Tetrachloro-m-xylene	41		35 - 135

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

GC Semi VOA

Prep Batch: 73423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134114-7	SB55@4	Total/NA	Solid	3546	
660-134114-8	SB54@4	Total/NA	Solid	3546	
MB 670-73423/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-73423/2-A	Lab Control Sample	Total/NA	Solid	3546	
185-830-A-3-A MS	Matrix Spike	Total/NA	Solid	3546	
185-830-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 73579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134114-7	SB55@4	Total/NA	Solid	8081B	73423
660-134114-8	SB54@4	Total/NA	Solid	8081B	73423
MB 670-73423/1-A	Method Blank	Total/NA	Solid	8081B	73423
LCS 670-73423/2-A	Lab Control Sample	Total/NA	Solid	8081B	73423
185-830-A-3-A MS	Matrix Spike	Total/NA	Solid	8081B	73423
185-830-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	73423

General Chemistry

Analysis Batch: 73633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134114-7	SB55@4	Total/NA	Solid	Moisture	
660-134114-8	SB54@4	Total/NA	Solid	Moisture	
670-33619-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Analysis Batch: 73767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-33831-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Client Sample ID: SB55@4
Date Collected: 01/23/24 10:20
Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			73633	01/29/24 13:00	RB	EET ORL

Client Sample ID: SB55@4
Date Collected: 01/23/24 10:20
Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-7
Matrix: Solid
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	73423	01/26/24 14:26	JR	EET ORL
Total/NA	Analysis	8081B		1			73579	01/29/24 13:07	MC	EET ORL

Client Sample ID: SB54@4
Date Collected: 01/23/24 10:30
Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			73633	01/29/24 13:00	RB	EET ORL

Client Sample ID: SB54@4
Date Collected: 01/23/24 10:30
Date Received: 01/23/24 10:45

Lab Sample ID: 660-134114-8
Matrix: Solid
Percent Solids: 95.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	73423	01/26/24 14:26	JR	EET ORL
Total/NA	Analysis	8081B		1			73579	01/29/24 12:52	MC	EET ORL

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: FDOT District 7-1-275 Soil Delineation

Job ID: 660-134114-2

Laboratory: Eurofins Orlando

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	42800	06-30-24
Arkansas (DW)	State	FL00091	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

[illegible]

Eurofins Tampa

6712 Benjamin Road Suite 100

Tampa, FL 33634

Phone: 813-885-7427 Fax: 813-885-7049

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Pasipanki, Carlene		Carrier Tracking No(s):		COC No: 660-144124.1																																																					
Client Contact: Shipping/Receiving		Phone:		E-Mail: carlene.pasipanki@et.eurofinsus.com		State of Origin: Florida		Page: Page 1 of 1																																																					
Company: Eurofins Environment Testing Southeast,				Accreditations Required (See note): NELAP - Florida				Job #: 660-134114-1																																																					
Address: 481 Newburyport Avenue, City: Altamonte Springs State, Zip: FL, 32701 Phone: 407-339-5984(Tel) 407-260-6110(Fax) Email:		Due Date Requested: 1/29/2024 TAT Requested (days):		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 R - Na2SO3 F - MeOH S - H2SO4 G - Amchlor T - TSP Dodecahydrate H - Ascorbic Acid U - Acetone I - Ice V - MCAA J - DI Water W - pH 4-5 K - EDTA Y - Trizma L - EDA Z - other (specify) Other:																																																			
Project Name: FDOT District 7-1-275 Soil Delineation Site:		Project #: 66013579 SSOW#		Total Number of containers																																																									
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab) BT=Tissue, A=Air		Matrix (W=water, S=solid, O=waste/oil)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8081B/3546 (MOD) 8081 Dieldrin Only		Moisture		8081B/3546 (MOD) 8081 Dieldrin Only (Hold)		Moisture (Hold)		Special Instructions/Note:																																							
						Preservation Code:																																																							
SB50@4 (660-134114-1)		1/23/24		09:20 Eastern				Solid						X		X						1																																							
SB52@4 (660-134114-2)		1/23/24		09:30 Eastern				Solid						X		X						1																																							
SB51@4 (660-134114-3)		1/23/24		09:40 Eastern				Solid						X		X						1																																							
SB49@4 (660-134114-4)		1/23/24		09:50 Eastern				Solid						X		X						1																																							
SB53@4 (660-134114-5)		1/23/24		10:00 Eastern				Solid						X		X						1																																							
SB56@4 (660-134114-6)		1/23/24		10:10 Eastern				Solid								X		X				1																																							
SB55@4 (660-134114-7)		1/23/24		10:20 Eastern				Solid								X		X				1																																							
SB54@4 (660-134114-8)		1/23/24		10:30 Eastern				Solid								X		X				1																																							
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.																																																													
Possible Hazard Identification Unconfirmed										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																																																			
Deliverable Requested: I, II, III, IV, Other (specify)										Primary Deliverable Rank: 2										Special Instructions/QC Requirements:																																									
Empty Kit Relinquished by:										Date:										Time:										Method of Shipment:																															
Relinquished by:										Date/Time: 1-23-24 1300										Company: ETPA										Received by:										Date/Time: 1-24-24 800										Company:											
Relinquished by:										Date/Time:										Company:										Received by:										Date/Time:										Company:											
Relinquished by:										Date/Time:										Company:										Received by:										Date/Time:										Company:											
Custody Seal Intact: Custody Seal No.:										Cooler Temperature(s) °C and Other Remarks: 1.1																																																			

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-134114-2

Login Number: 134114

List Source: Eurofins Tampa

List Number: 1

Creator: Grohman, Tina

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.	True	
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: Aptim Environmental & Infrastructure Inc

Job Number: 660-134114-2

Login Number: 134114

List Number: 2

Creator: Beck, Brent

List Source: Eurofins Orlando

List Creation: 01/24/24 06:02 AM

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.	True	
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	

ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Jordan
Aptim Environmental & Infrastructure Inc
725 US Highway 301 South
Tampa, Florida 33619

Generated 2/1/2024 4:42:59 PM

JOB DESCRIPTION

1-275 Delineation

JOB NUMBER

660-134231-1

Eurofins Tampa

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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2/1/2024 4:42:59 PM

Authorized for release by
Carlene Pasipanki, Project Manager
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(321)282-6397

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Sample Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-134231-1	SB57@4	Solid	01/30/24 09:00	01/30/24 10:35
660-134231-4	SB56@4	Solid	01/30/24 09:30	01/30/24 10:35

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Client Sample ID: SB57@4

Lab Sample ID: 660-134231-1

No Detections.

Client Sample ID: SB56@4

Lab Sample ID: 660-134231-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Tampa

Case Narrative

Client: Aptim Environmental & Infrastructure Inc
Project: 1-275 Delineation

Job ID: 660-134231-1

Job ID: 660-134231-1

Eurofins Tampa

Job Narrative 660-134231-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/30/2024 10:35 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 time was 5.0°C

Pesticides

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

General Chemistry

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

Eurofins Tampa

Definitions/Glossary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Qualifiers

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

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Client Sample ID: SB57@4

Lab Sample ID: 660-134231-1

Date Collected: 01/30/24 09:00

Matrix: Solid

Date Received: 01/30/24 10:35

Percent Solids: 93.2

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.18	U	3.6	0.18	ug/Kg	☼	01/31/24 09:51	02/01/24 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	74		25 - 145				01/31/24 09:51	02/01/24 14:13	1
Tetrachloro-m-xylene	60		35 - 135				01/31/24 09:51	02/01/24 14:13	1

Client Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Client Sample ID: SB56@4

Lab Sample ID: 660-134231-4

Date Collected: 01/30/24 09:30

Matrix: Solid

Date Received: 01/30/24 10:35

Percent Solids: 91.9

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.36	U	7.4	0.36	ug/Kg	☼	01/31/24 09:51	02/01/24 14:27	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	58		25 - 145				01/31/24 09:51	02/01/24 14:27	2
Tetrachloro-m-xylene	44		35 - 135				01/31/24 09:51	02/01/24 14:27	2

QC Sample Results

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 670-73900/1-A

Matrix: Solid

Analysis Batch: 73974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 73900

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	0.16	U	3.4	0.16	ug/Kg		01/31/24 09:47	02/01/24 12:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	83		25 - 145				01/31/24 09:47	02/01/24 12:47	1
Tetrachloro-m-xylene	61		35 - 135				01/31/24 09:47	02/01/24 12:47	1

Lab Sample ID: LCS 670-73900/2-A

Matrix: Solid

Analysis Batch: 73974

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 73900

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	81		25 - 145
Tetrachloro-m-xylene	58		35 - 135

Lab Sample ID: 678-16947-A-1-B MS

Matrix: Solid

Analysis Batch: 73974

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 73900

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	74		25 - 145
Tetrachloro-m-xylene	64		35 - 135

Lab Sample ID: 678-16947-A-1-C MSD

Matrix: Solid

Analysis Batch: 73974

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 73900

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	72		25 - 145
Tetrachloro-m-xylene	69		35 - 135

QC Association Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

GC Semi VOA

Prep Batch: 73900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134231-1	SB57@4	Total/NA	Solid	3546	
660-134231-4	SB56@4	Total/NA	Solid	3546	
MB 670-73900/1-A	Method Blank	Total/NA	Solid	3546	
LCS 670-73900/2-A	Lab Control Sample	Total/NA	Solid	3546	
678-16947-A-1-B MS	Matrix Spike	Total/NA	Solid	3546	
678-16947-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 73974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134231-1	SB57@4	Total/NA	Solid	8081B	73900
660-134231-4	SB56@4	Total/NA	Solid	8081B	73900
MB 670-73900/1-A	Method Blank	Total/NA	Solid	8081B	73900
LCS 670-73900/2-A	Lab Control Sample	Total/NA	Solid	8081B	73900
678-16947-A-1-B MS	Matrix Spike	Total/NA	Solid	8081B	73900
678-16947-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	73900

General Chemistry

Analysis Batch: 73939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-134231-1	SB57@4	Total/NA	Solid	Moisture	
660-134231-4	SB56@4	Total/NA	Solid	Moisture	
660-134234-A-1 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Client Sample ID: SB57@4
Date Collected: 01/30/24 09:00
Date Received: 01/30/24 10:35

Lab Sample ID: 660-134231-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			73939	01/31/24 11:09	RB	EET ORL

Client Sample ID: SB57@4
Date Collected: 01/30/24 09:00
Date Received: 01/30/24 10:35

Lab Sample ID: 660-134231-1
Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	73900	01/31/24 09:51	YM	EET ORL
Total/NA	Analysis	8081B		1			73974	02/01/24 14:13	FC	EET ORL

Client Sample ID: SB56@4
Date Collected: 01/30/24 09:30
Date Received: 01/30/24 10:35

Lab Sample ID: 660-134231-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			73939	01/31/24 11:09	RB	EET ORL

Client Sample ID: SB56@4
Date Collected: 01/30/24 09:30
Date Received: 01/30/24 10:35

Lab Sample ID: 660-134231-4
Matrix: Solid
Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			10 g	5 mL	73900	01/31/24 09:51	YM	EET ORL
Total/NA	Analysis	8081B		2			73974	02/01/24 14:27	FC	EET ORL

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

Method Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Method	Method Description	Protocol	Laboratory
8081B	Organochlorine Pesticides (GC)	SW846	EET ORL
Moisture	Percent Moisture	EPA	EET ORL
3546	Microwave Extraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Aptim Environmental & Infrastructure Inc
Project/Site: 1-275 Delineation

Job ID: 660-134231-1

Laboratory: Eurofins Orlando

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	42800	06-30-24
Arkansas (DW)	State	FL00091	06-30-24
Florida	NELAP	E83018	06-30-24
Georgia (DW)	State	C055	06-30-24
Louisiana (All)	NELAP	239316	06-30-24
Louisiana (DW)	State	LA039	05-24-24
Mississippi	State	MS00007	06-30-24
New Mexico	State	FL00091	06-30-24
North Carolina (DW)	State	12712	07-31-24
Tennessee	State	TN04930	06-30-24
Texas	NELAP	T104704571	02-29-24
Washington	State	C1089	10-19-24

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Aptim Environmental & Infrastructure Inc

Job Number: 660-134231-1

Login Number: 134231

List Number: 1

Creator: Grohman, Tina

List Source: Eurofins Tampa

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.	True	
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: Aptim Environmental & Infrastructure Inc

Job Number: 660-134231-1

Login Number: 134231

List Number: 2

Creator: Hartley, Tyler

List Source: Eurofins Orlando

List Creation: 01/31/24 10:14 AM

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.	True	
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	