District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Plains Pipeline, L.P.			OGRID	34053		
Contact Name Karolanne Hudgens			Contact Te	lephone 575-200-5517		
Contact ema	il	khudgens@paalp.c	com	Incident #	(assigned by OCD) nAPP222925365	56
Contact mail	ing address	1106 Griffith Dr	rive, Midland, TX	79706		
			Location	of Release So	ource	
Latitude 32.1	388868		(NAD 83 in dec	Longitude <u>-</u> cimal degrees to 5 decin	103.3580480 val places)	
Site Name	Plains Mont	tera 6" Release		Site Type	Pipeline	
Date Release	Discovered	10/18/2022		API# (if app	licable)	
Unit Letter	Section	Township	Range	Coun	•	
N	10	25S	35E	Lea	,	
Surface Owne	r: State	Federal Tr	,	Name: Tap Rock N	M 10 Minerals, LLC Release)
	Materia			calculations or specific	justification for the volumes provided	
Crude Oi			d (bbls) 21.1 bbls		Volume Recovered (bbls) 2	1.1 bbls
Produced	Water	Volume Release	` '		Volume Recovered (bbls)	
Is the concentration of dissolved chloride produced water >10,000 mg/l?		hloride in the	☐ Yes ☐ No			
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)		
Cause of Rel Internal corre		de oil pipeline.				

Received by OCD: 3/17/2023 11:29:18 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	I uge w of 1.
Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
` /		
☐ Yes ⊠ No		
If YES, was immediate no	 otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
,		······································
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment
	•	likes, absorbent pads, or other containment devices.
	ecoverable materials have been removed an	- ·
-	d above have <u>not</u> been undertaken, explain	
		
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		lease attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	nent. The acceptance of a C-141 report by the C	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	The Control aces not reneve the operator of	responsionity for compliance with any other redefat, state, or local laws
Printed Name:	Karolanne Hudgens	Title:HSE Remediation Specialist II
	K	
email: <u>khudgens</u>	@paalp.com	Telephone: <u>575-200-5517</u>
OCD Only		
Received by:		Date:

Soil Type	Est. Pore Space
Clay	15%
Sandy Clay	12%
Silt	16%
Loess	25%
Fine Sand	16%
Med. Sand	25%
Coarse Sand	26%
Gravelly Sand	26%
Fine Gravel	26%
Med. Gravel	25%
Coarse Gravel	18%
Compacted Caliche Pad	16%
Loosely Compacted	
Caliche Pad	20%

Location:

Rule of Thumb

5.0 = Total Estimated Barrels of Oil in Soil

To Calculate The Oil Content of Saturated Soil

Average Pore Space Between Soil Grains Ranges From A Low of 15% To A High of 26%. Pure Sand Being 26%.

16% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- 7 = Width in Feet
- 5 = Length in Feet
- 60 = Depth in Inches
- 5 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 209.44 = Gallons of Oil In Soil
 - 5.0 = Barrels of Oil In Soil

If different soil types are impacted (I.E. Caliche Pad and Sandy Clay Pasture Area), additional calculation boxes are provided below. If not, please make sure the dimensions are zeroed out before finalizing.

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- = Width in Feet
- = Length in Feet
- = Depth in Inches
- 0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 0.00 = Gallons of Oil In Soil
- 0.0 = Barrels of Oil In Soil

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- = Width in Feet
- = Length in Feet
- = Depth in Inches
- 0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 0.00 = Gallons of Oil In Soil
- 0.0 = Barrels of Oil In Soil



Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil		

Characterization Report Checklist: Each of the following items must be included in the report.

1	
	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
	Data table of soil contaminant concentration data
	Depth to water determination
	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs
	Photographs including date and GIS information
	Topographic/Aerial maps
$^{\circ}$ \boxtimes	Laboratory data including chain of custody
3	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation in the proposed remediation technique, proposed sampling plan in the proposed remediation technique, proposed sampling plan in the proposed remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

Released to Imaging: 4/24/2023 11:17:12 AM

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kanlann Hudgers

Title: HSE Remediation Specialist Is

Signature:

Date: 3/21/23

email: khudgers @ paalp.com

Telephone: 575.200.5517

Date: 03/21/2023



Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.			
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Kanlann Hudgers Title: HSERenediation Specialist is			
Signature: Date:			
email: khudgens @ paalp. com Telephone: 575-200-5517			
OCD Only			
Received by: Jocelyn Harimon Date:03/21/2023			
Approved Approved with Attached Conditions of Approval Denied Deferral Approved			
Signature: Date:			

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party	Plains Pipeline, L.	P.	OGRID	34053	
Contact Name Karolanne Hudgens			Contact Te	lephone 575-200-5517		
Contact ema	il	khudgens@paalp.c	com	Incident #	(assigned by OCD) nAPP222925365	56
Contact mail	ing address	1106 Griffith Dr	rive, Midland, TX	79706		
			Location	of Release So	ource	
Latitude 32.1	388868		(NAD 83 in dec	Longitude <u>-</u> cimal degrees to 5 decin	103.3580480 val places)	
Site Name	Plains Mont	tera 6" Release		Site Type	Pipeline	
Date Release	Discovered	10/18/2022		API# (if app	licable)	
Unit Letter	Section	Township	Range	Coun	•	
N	10	25S	35E	Lea	,	
Surface Owne	r: State	Federal Tr	,	Name: Tap Rock N	M 10 Minerals, LLC Release)
M ~ 1 0!	Materia			calculations or specific	justification for the volumes provided	
Crude Oi			d (bbls) 21.1 bbls		Volume Recovered (bbls) 2	1.1 bbls
Produced	Water	Volume Release	` '		Volume Recovered (bbls)	
Is the concentration of dissolved chloride produced water >10,000 mg/l?			hloride in the	☐ Yes ☐ No		
Condensate Volume Released (bbls)				Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide units)			e units)	Volume/Weight Recovered (provide units)	
Cause of Rel Internal corre		de oil pipeline.				

Received by OCD: 3/17/2023 11:29:18 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 8 of 112
ncident ID	
District RP	
Facility ID	

Application ID

Was this a major release as defined by	If YES, for what reason(s) does the respon	sible party consider this a major release?	
19.15.29.7(A) NMAC?			
☐ Yes ⊠ No			
If VFS, was immediate no	ntice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?	
II ILS, was ininectate no	once given to the OCD. By whom: 10 wi	oni: When and by what means (phone, eman, etc):	
	Initial R	esponse	
The responsible p	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ease has been stopped.		
☐ The impacted area ha	s been secured to protect human health and	the environment.	
Released materials ha	we been contained via the use of berms or o	likes, absorbent pads, or other containment devices.	
<u> </u>	ecoverable materials have been removed an		
If all the actions described	d above have <u>not</u> been undertaken, explain	vhy:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and			
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:	Karolanne Hudgens	Title:HSE Remediation Specialist II	
Signature:	K	Date: <u>10/20/2022</u>	
email: <u>khudgens(</u>	@paalp.com_	Telephone: <u>575-200-5517</u>	
OCD Only			
Received by:		Date:	

Est. Pore
Space
15%
12%
16%
25%
16%
25%
26%
26%
26%
25%
18%
16%
10 /0
20%

Location:

Rule of Thumb

To Calculate The Oil Content of Saturated Soil

Average Pore Space Between Soil Grains Ranges From A Low of 15% To A High of 26%. Pure Sand Being 26%.

16% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- 7 = Width in Feet
- 5 = Length in Feet
- 60 = Depth in Inches
- 5 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 209.44 = Gallons of Oil In Soil
 - 5.0 = Barrels of Oil In Soil

If different soil types are impacted (I.E. Caliche Pad and Sandy Clay Pasture Area), additional calculation boxes are provided below. If not, please make sure the dimensions are zeroed out before finalizing.

5.0 = Total Estimated Barrels of Oil in Soil

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- = Width in Feet
- = Length in Feet
- = Depth in Inches
- 0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 0.00 = Gallons of Oil In Soil
- 0.0 = Barrels of Oil In Soil

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- = Width in Feet
- = Length in Feet
- = Depth in Inches
- 0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 0.00 = Gallons of Oil In Soil
- 0.0 = Barrels of Oil In Soil



Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

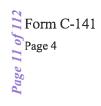
Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil			

	Cha	aracterization Report Checklist: Each of the following items must be included in the report.
		Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
	$\overline{\boxtimes}$	Field data Data table of soil contaminant concentration data Depth to water determination
9	\boxtimes	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs
	\boxtimes	Photographs including date and GIS information Topographic/Aerial maps
7117		Laboratory data including chain of custody
<		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation in the proposed remediation technique, proposed sampling plan in the proposed remediation technique, proposed sampling plan in the proposed remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

Released to Imaging: 4/24/2023 11:17:12 AM

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Karolanne Hudgens	Title: HSE remediation specialist 4			
Signature:	Date: 3/21/23			
email: khudgers @ paalp. com	Telephone: 575. 200 5517			
OCD Only				
Received by:	Date:			



Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.				
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Kanslanne Hudgens Title: HSERemediation Specialist 11				
Signature: Date: 3/21/23				
email: khudgens @ paalp. cim Telephone: 575-200-5517				
OCD Only				
Received by: Date:				
☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved				
Signature: Jennifer Nobili Date: 04/24/2023				



INTERIM REMEDIATION SUMMARY

AND

PROPOSED SITE INVESTIGATION WORKPLAN

PLAINS ALL AMERICAN PIPELINE, LP

MONTERA 6" PIPELINE RELEASE LEA COUNTY, NEW MEXICO

PLAINS SRS NO: 2022-077 NMOCD INCIDENT NO: nAPP2229253656

March 14, 2023

Prepared For:

PLAINS ALL AMERICAN PIPELINE, LP Midland, Texas

Prepared by:

Lighthouse Environmental Services, Inc. 17901 West I-20 Odessa, TX 79763

INTERIM REMEDIATION SUMMARY

AND

PROPOSED SITE INVESTIGATION WORKPLAN

PLAINS ALL AMERICAN PIPELINE, LP

MONTERA 6" PIPELINE RELEASE LEA COUNTY, NEW MEXICO

TABLE OF CONTENTS

1.0	INTRO	DUCTION	I
2.0	INITIAL	INVESTGATION AND REMEDIATION SUMMARY	1
	2.1	Background and Purpose	1
	2.2	Site Characterization	1
	2.3	Soil Remediation	2
	2.4	Sampling and Analysis	2
	2.5	Conclusions and Recommendations	3
3.0	PROP	OSED SITE INVESTIGATION WORKPLAN	3
	3.1	Boring Installation	3
	3.2	Soil Sampling	3

TABLE OF CONTENTS (continued)

LIST OF APPENDICES

<u>Figure</u>	<u>Title</u>
1	Site Location – Topographic Map Site Location
2	 Aerial Photograph Map Soil Sample Location
3	Мар
4	Proposed Boring Location Map
5	Karst Topography Map
6	Flood Hazard FEMA Map
7	Wetlands Inventory Map
8	OSE Point of Diversions Map
<u>Tables</u>	<u>Title</u>
1	Soil Floor Sample Analytical Results Soil
2	Sidewall Sample Analytical Results
Lab Reports	<u>Title</u>
1	Soil Floor Sample Laboratory Report Soil
2	Sidewall Sample Laboratory Report

1.0 INTRODUCTION

Lighthouse Environmental Services, Inc. (Lighthouse) respectfully submits this Interim Remediation Summary and Proposed Investigation Work Plan to Plains All American Pipeline, LP (Plains) for submittal to the New Mexico Oil Conservation Division (NMOCD) for the Montera 6" Release (2022-077), hereinafter referred to as the "Site". This work plan summarizes remediation efforts to date and proposes future site investigation activities associated with a crude oil release on the Plains Montera 6" pipeline.

2.0 INITIAL SITE INVESTIGATION AND REMEDIATION SUMMARY

2.1 Background and Purpose

On October 18, 2022, approximately 21.1 barrels (bbls) of crude oil was released from the Plains Montera 6" pipeline due to internal corrosion. The Site is located in Unit Letter N, Section 10, Township 25 South, Range 35 East in Lea County, New Mexico. The GPS coordinates of the Site are N 32.1388868, W 103.3580480. The location of the Site is provided on Figure 1 and Figure 2. The Site is located on land owned by Tap Rock NM 10 Minerals, LLC. Plains submitted Form C-141 Release Notification to the NMOCD and Incident No. nAPP2229253656 was assigned to the Release. The Form C-141 is provided in the appendices of this document.

2.2 Site Characterization

The Site was characterized according to the remediation standards detailed in Table 1 Closure Criteria for Soils Impacted by a Release (Table 1) in the New Mexico Administrative Code (NMAC) Title 19 Chapter 15 Part 29 Section 12 (19.15.29.12).

According to data published by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey (USGS), no water wells are located within one-half (0.5) mile of the Site. The Site is located in an area of low karst potential. Lighthouse did not identify any receptors located within the mandated boundaries and/or distance of the Site as detailed in NMAC 19.15.29.12. Documentation associated with Site Characterization include maps for FEMA Flood Zones, NMOSE Point of Diversion (PODs), National Wetlands Inventory (NWI) and Karst Potential are provided in the appendices of this document. The Site is not located within a FEMA Flood Zone or jurisdictional wetlands and is not positioned in a POD area. In addition, the potential for Karst subsurface influence at the Site is low.

2.3 Soil Remediation

Prior to implementation of field activities, Lighthouse prepared a Site-specific Health and Safety Plan (HASP) addressing the known and potential hazards which could be encountered during the field activities at the Site. The impacted soil area occurs in an open field pipeline ROW. The surrounding land is in oil field and light agricultural use. Figure 3 depicts the impacted soil area (approximately 9,500 ft2). Mechanical excavation was utilized to excavate and stockpile the impacted soil on-site on a plastic sheet liner. The direct areas around pipelines and utilities were excavated with hand tools.

Approximately 2,250 cubic yards of impacted soil was loaded and hauled off-site for disposal. Soil samples were collected from the floor and sidewalls of the excavation area and submitted for laboratory analysis to confirm impacted soil was properly removed. Excavated soil was initially field screened with an organic vapor meter (OVM) before soil samples were collected.

2.4 Sampling and Analysis

During initial remediation activities, 31 soil samples (CS-1 through CS-31) were collected from the excavation floor and eight (8) soil samples were collected from the excavation sidewalls to demonstrate horizontal delineation/cleanup of impacted soil. Soil sample locations are presented in Figure 3.

All soil samples were transported to Eurofins Laboratory in Midland, Texas on ice following strict chain-of-custody protocol. Soil samples were analyzed for Total Petroleum Hydrocarbons (TPH) using EPA Method 8015b modified for Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Oil Range Organics (ORO) and chloride utilizing EPA Method 300.

The analytical results from the soil samples collected from the floor of the excavation are presented in Table 1. The analytical results from the side wall soil samples are presented in Table 2.

Analytical results indicated soil samples CS-2, CS-3, CS-5, CS-7CS-26, CS-28, CS-29, CS-31, SW-1, SW-3, SW-5, SW-7 and SW-8 exhibited total TPH concentrations below the applicable Table 1 Closure Criteria limit of 100 milligrams per Kilogram (mg/Kg). The remainder of the samples indicated total TPH concentrations above the aforementioned associated limit. All submitted soil samples exhibited chloride concentrations below the Table 1 Closure Criteria limit of 600 mg/Kg.

2.5 Conclusions and Recommendations

Based on the field data and the analytical results obtained during the soil sampling events, Lighthouse recommends advancing soil borings within and surrounding the affected soil area to vertically and horizontally delineate impacted soil. In addition, Lighthouse will utilize a soil boring to determine depth to groundwater, if encountered in the soil boring.

3.0 PROPOSED SITE INVESTIGATION AND REMEDIATION WORKPLAN

3.1 Soil Boring Installation

Lighthouse proposes to advance a total of three (3) soil borings at the Site. One of the soil borings will be utilized to determine depth to groundwater and to accurately establish the remediation criteria according to NMOSE Procedures for implementation of the Spill Rule (19.15.29 NMAC) (IX). The temporary well will be gauged after 72 hours. The borehole will be plugged and abandoned in accordance with the applicable NMOSE regulations.

The soil borings will be installed using air rotary drilling methods by a licensed New Mexico driller. The borings will be sampled continuously using a barrel sampler and soil samples obtained from the boring will be described in the field according to ASTM D2488. Soil samples will be collected at five (5) foot intervals from ground surface to approximately 50 feet below ground surface. Proposed soil boring locations are depicted in Figure 4.

3.2 Soil Sampling

Soil samples will be screened in the field using an organic vapor meter calibrated to an isobutylene standard. Based on the OVM readings, selected soil samples will be collected for laboratory analysis. Soil samples will be placed in labeled, laboratory supplied jars, sealed with a Teflon-lined lid. Samples will then be placed in a sealable, plastic bag and subsequently placed on ice in a cooler for preservation, Chain-of-custody (COC) forms will be completed after collection of the soil samples. The COC will note the sample identification, date and time of sample collection, sample preservation, sample container volume and type (plastic, glass, etc.), the number of containers and the chemical analysis to be performed. COCs will accompany the samples from the time they are collected until they are delivered to the laboratory.

Soil samples will be analyzed for the following parameters:

- TPH GRO/DRO/ORO using EPA Method 8015b
- BTEX using EPA Method 8021b
- Chloride using Method EPA 300

Drill cuttings from the borings will be placed on a plastic liner pending final disposition.

Upon completion of delineation activities, a Proposed Remediation Work Plan will be prepared based on the analytical data of the soil samples collected from the borings. In addition, the Closure Criteria will be evaluated based on the determined depth to groundwater potential observed in the temporary monitoring well. Information collected from the soil boring activities will be included in the Proposed Remediation Work Plan. The following soil boring activities are anticipated to take place within 180 days from the approval of this Work Plan and after proper NMOCD notification.

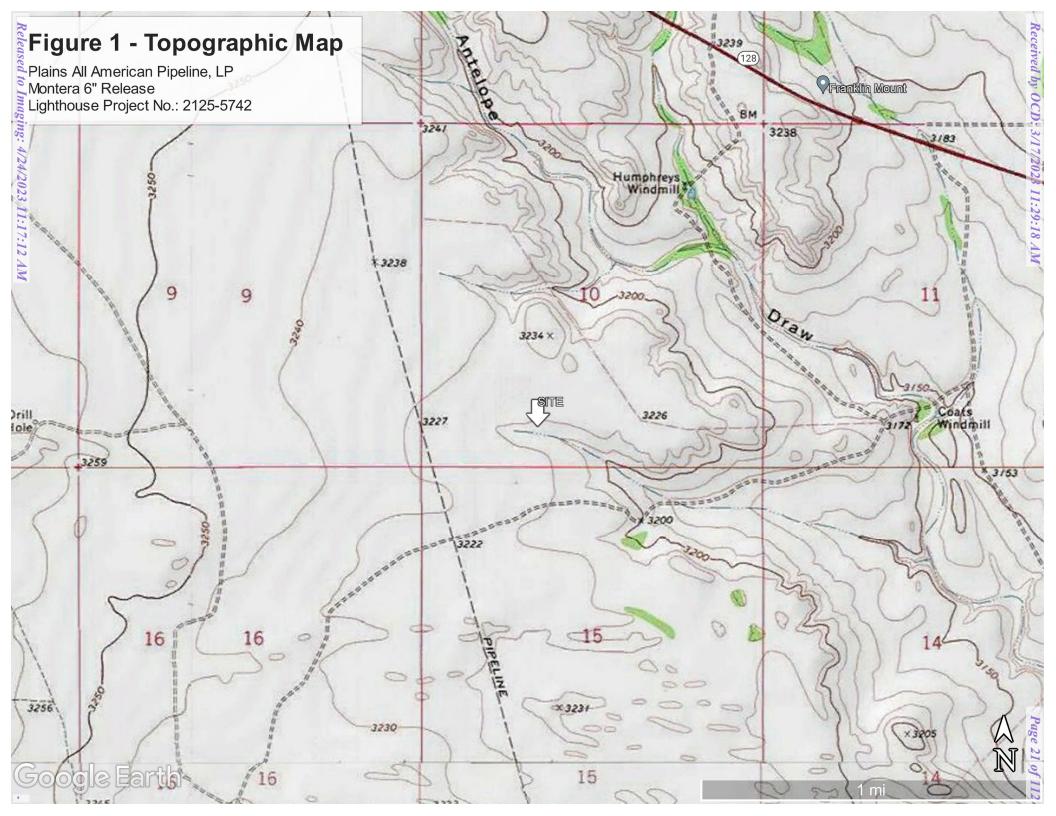
Lighthouse appreciates the opportunity to work with Plains on this important project. If there are any questions or comments, please contact us at (469) 243-9571.

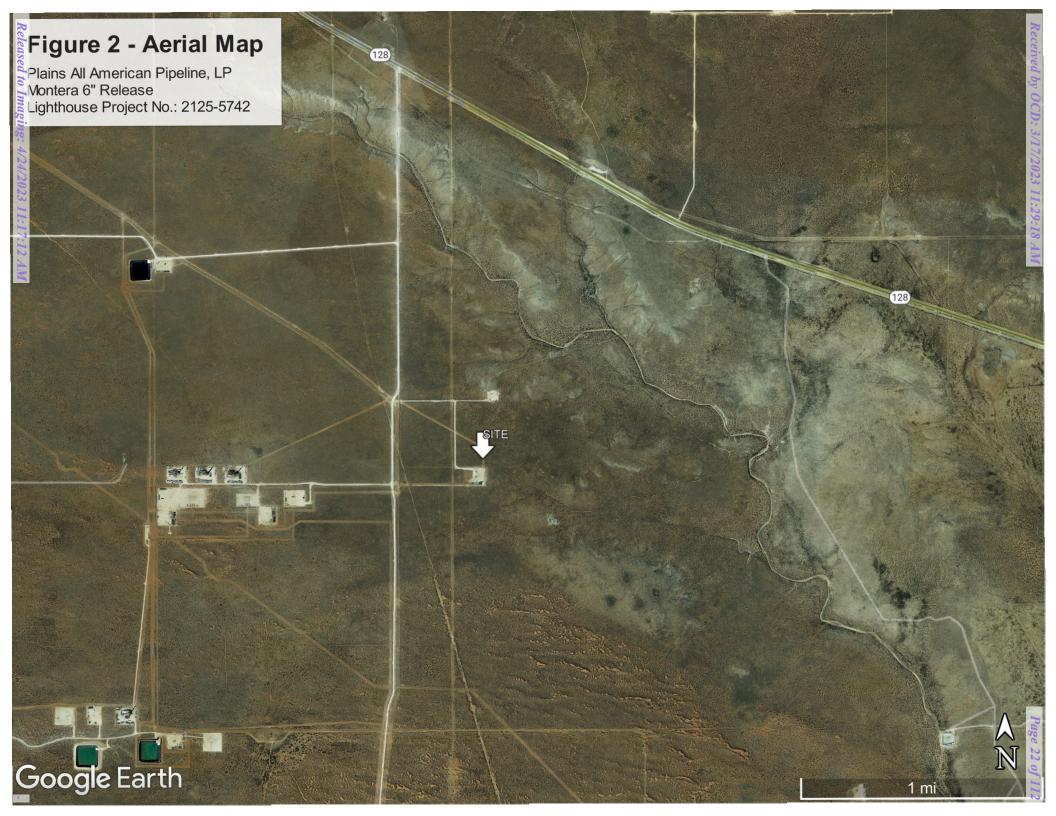
Sincerely,

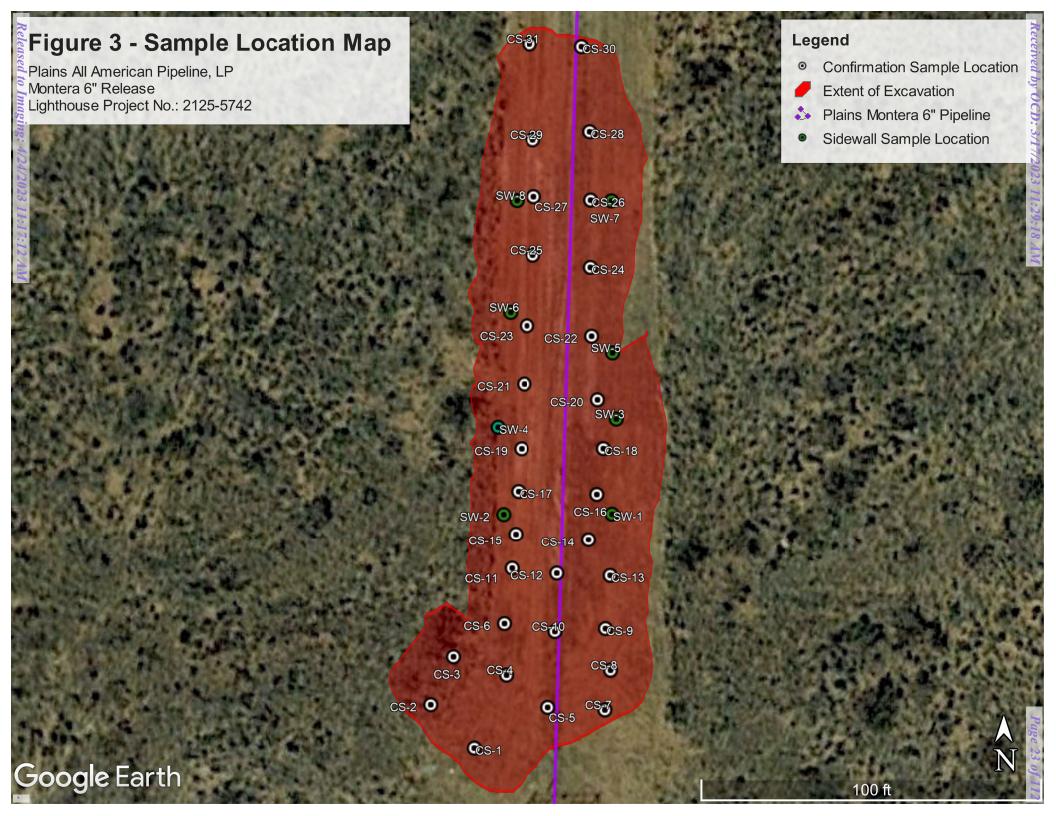


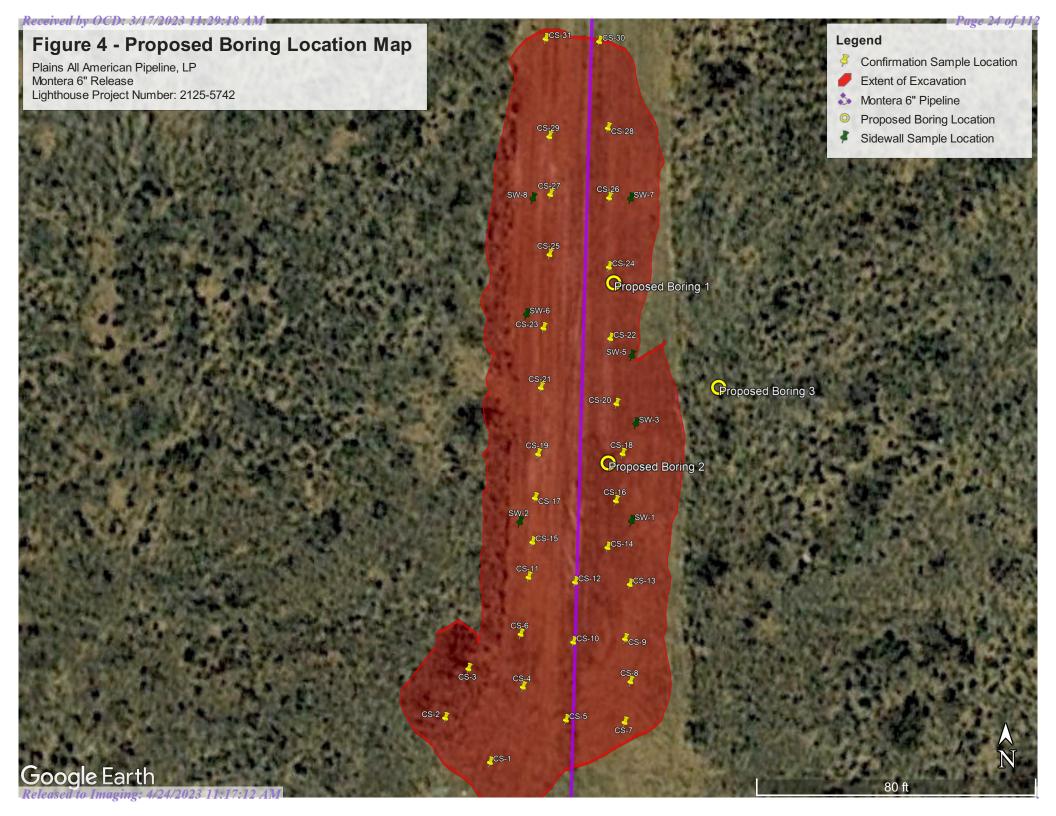
Lighthouse Environmental Services, Inc.

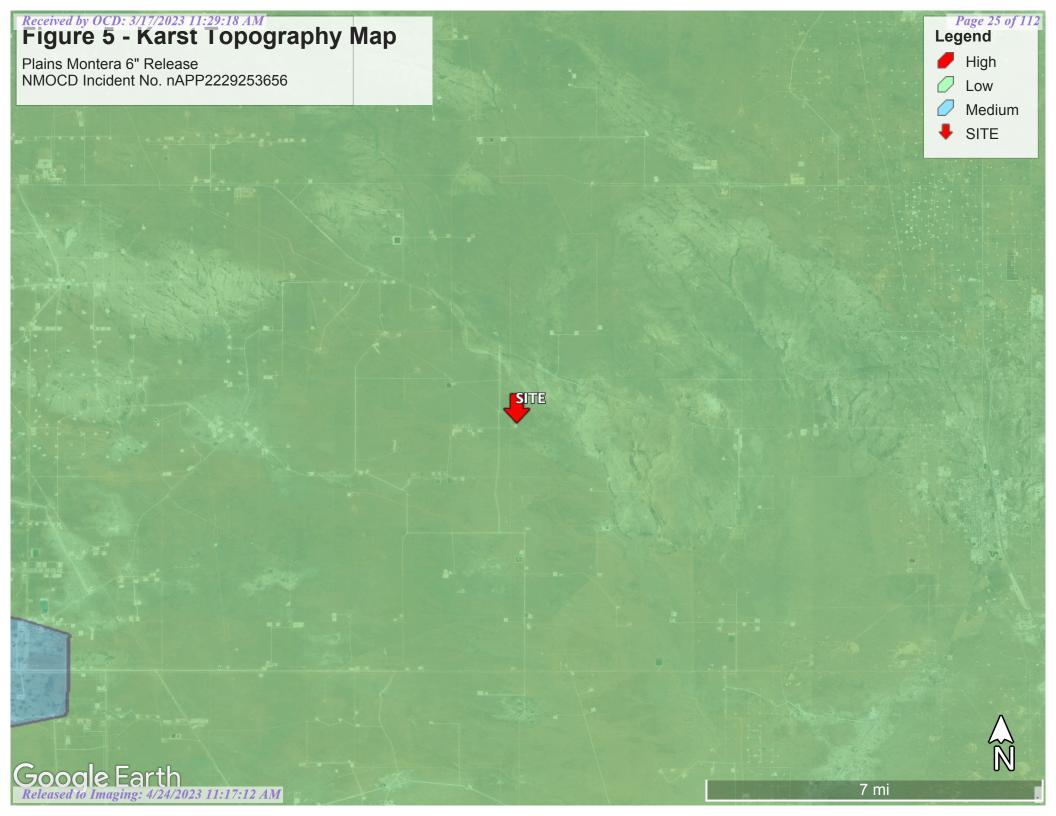
FIGURES











National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** www 513 www Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The pin displayed on the map is an approximate point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/14/2023 at 7:23 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

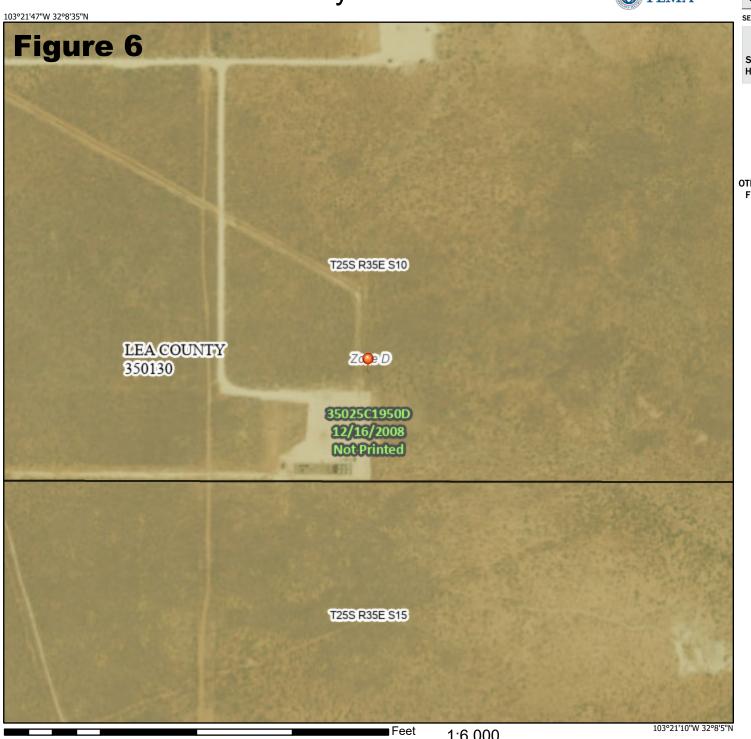
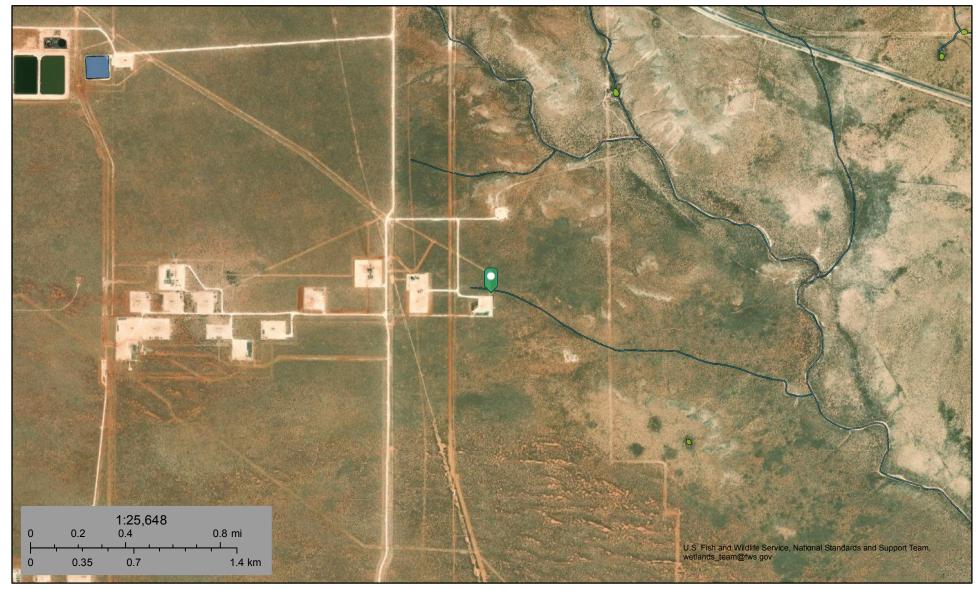




Figure 7 - Plains Montera 6" Release



February 15, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

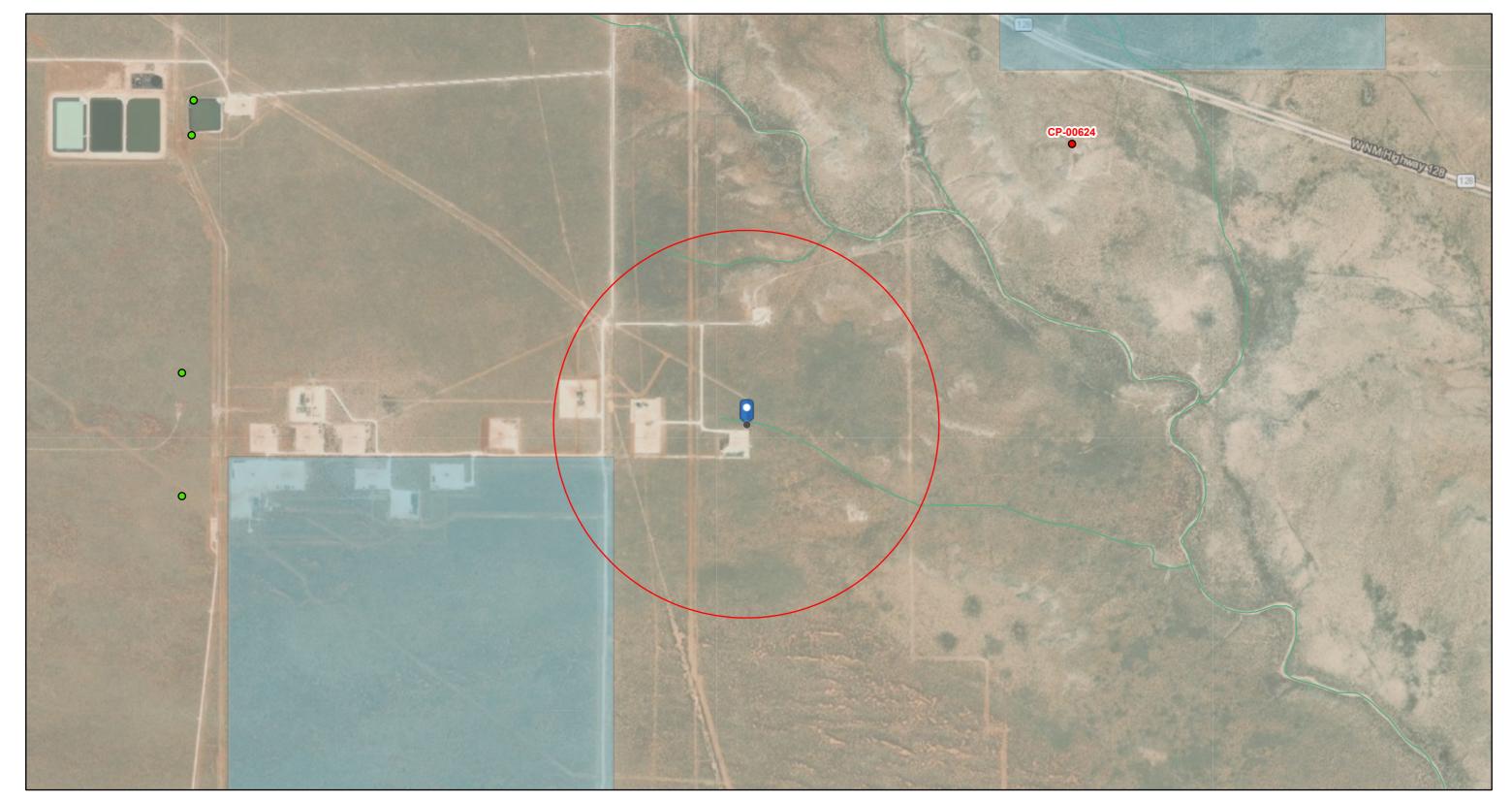
Riverine

Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Figure 8

OSE POD Locations Map



2/14/2023, 6:11:34 PM GIS WATERS PODs

Pending

Plugged

OSE District Boundary

Water Right Regulations

Closure Area

New Mexico State Trust Lands

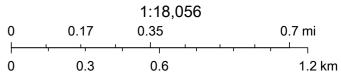
Both Estates

NHD Flowlines

Artificial Path

Stream River

SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

TABLES



TABLE 1

Soil Floor Sample Analytical Results
Plains All American Pipeline
Montera 6" Release
Lea County, New Mexico
LHS Project ID: 2125-5742
32.138757, -103.358297

Sample ID	Sample Date	Sample Depth (BGS)	TPH (GRO) (mg/Kg)	TPH (DRO) (mg/Kg)	TPH (ORO) (mg/Kg)	TPH (Total) (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
NN	IOCD Closure Criteria			1	00		10	50	600
				Confirma	ation Soil Samples				
CS-1	12/29/2022	36"	343	2,330	<49.9 U	2,670	NS	NS	<5.00 U
CS-2	12/29/2022	36"	<49.9 U	<49.9 U	<49.9 U	<49.9 U	NS	NS	<5.04 U
CS-3	12/29/2022	30"	<49.9 U	<49.9 U	<49.9 U	<49.9 U	NS	NS	<5.03 U
CS-4	12/29/2022	30"	2,410	4,040	<49.8 U	6,450	NS	NS	<5.05 U
CS-5	12/29/2022	30"	<49.9 U	<49.9 U	<49.9 U	<49.9 U	NS	NS	<4.95 U
CS-6	12/29/2022	0-6"	64	1,600	<50.0 U	1,660	NS	NS	<5.03 U
CS-7	12/29/2022	0-6"	<50.0 U	91.2	<50.0 U	91	NS	NS	37.00
CS-8	12/29/2022	36"	2,820	5,230	<250 U	8,050	NS	NS	<5.00 U
CS-9	12/29/2022	36"	3,020	6470	<250 U	9490	NS	NS	<4.96 U
CS-10	12/29/2022	12-14"	<50.0 U	295	<50.0 U	295	NS	NS	<4.96 U
CS-11	12/29/2022	0-6"	1,380	3,610	<50.0 U	4,990	NS	NS	<4.95 U
CS-12	12/29/2022	6-12"	629	3,590	<49.9 U	4,220	NS	NS	5.95
CS-13	12/29/2022	24"	150	2,280	<49.9 U	2,430	NS	NS	<5.03 U
CS-14	12/29/2022	5'	<50.0 U	297	<50.0 U	297	NS	NS	<5.01 U
CS-15	12/29/2022	48"	1110	5,210	<250 U	6,320	NS	NS	<5.01 U
CS-16	12/29/2022	18'	65	253	<50.0 U	318	NS	NS	5
CS-17	12/29/2022	18'	417	,1300	<50.0 U	1,720	NS	NS	14
CS-18	12/29/2022	18'	3,800	4600	<250 U	8,400	NS	NS	31
CS-19	12/29/2022	18'	5,270	6,230	<249 U	11500	NS	NS	5
CS-20	12/29/2022	18'	1,930	3,790	<49.9 U	5,720	NS	NS	54
CS-21	12/29/2022	18'	1,140	11,700	1,440	14,300	NS	NS	36
CS-22	12/29/2022	18'	4,700	19,500	2,430	26,600	NS	NS	74
CS-23	12/29/2022	18'	2,340	15,300	1,750	19,400	NS	NS	66
CS-24	12/29/2022	18'	2,590	11,300	1,340	15,200	NS	NS	60
CS-25	12/29/2022	18'	6,120	17,300	2,120	25,500	NS	NS	45.5
CS-26	12/29/2022	18'	<50.0 U F1	<50.0 U F1	<50.0 U	<50.0 U	NS	NS	69
CS-27	12/29/2022	18'	<50.0 U	106	<50.0 U	106	NS	NS	48.4
CS-28	12/29/2022	8'	<50.0 U	<50.0 U	<50.0 U	<50.0 U	NS	NS	<5.01 U
CS-29	12/29/2022	8'	<50.0 U	<50.0 U	<50.0 U	<50.0 U	NS	NS	<4.97 U
CS-30	12/29/2022	0-6"	<50.0 U	299	<50.0 U	299	NS	NS	<4.98 U
CS-31	12/29/2022	0-6"	<50.0 U	<50.0 U	<50.0 U	<50.0 U	NS	NS	36

: Indicates sample concentration exceeds Background Averaged Remediation Limit

NOTES:
BGS: below ground surface
mg/Kg: milligrams per Kilogram
NA: Not Applicable
NS: Not Sampled

F1: MS and/or MSD recovery exceeds control limits

**P1: MS and/or MSD recovery exceeds control limit
**2: Calibration Blank is outside acceptance limits

U: Indicates the analyte was analyzed for but not detected



TABLE 2

Soil Sidewall Sample Analytical Results Plains All American Pipeline Montera 6" Release Lea County, New Mexico LHS Project ID: 2125-5742 32.138757, -103.358297

Sample ID	Sample Date	Sample Depth (BGS) (ft)	TPH (GRO) (mg/Kg)	TPH (DRO) (mg/Kg)	TPH (ORO) (mg/Kg)	TPH (Total) (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Chloride (mg/Kg)
NI	MOCD Closure Criteria			10	00		10	50	600
				Confirma	tion Soil Samples				
SW-1	1/10/2023	10	<49.9 U F1 F2	<49.9 U	<49.9 U	<49.9 U	<0.00201 U	0.0334	46.2
SW-2	1/10/2023	10	1,540	5,690	<49.8 U	7,230	0.47	24.6000	45.8
SW-3	1/10/2023	12	<49.9 U	<49.9 U	<49.9 U	<49.9 U	<0.00199 U	0.0200	111
SW-4	1/10/2023	12	<49.8 U	2,550	<49.8 U	2,550	<0.00199 U	0.0215	72.5
SW-5	1/10/2023	13	<49.9 U	<49.9 U	<49.9 U	<49.9 U	<0.00201 U	<0.00402 U	114
SW-6	1/10/2023	13	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<0.00200 U	0.0066	71.4
SW-7	1/10/2023	11	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<0.00199 U	0.0084	51.8
SW-8	1/10/2023	11	<50.0 U	<50.0 U	<50.0 U	<50.0 U	<0.00199 U	0.0091	34

: Indicates sample concentration exceeds Background Averaged Remediation Limit

NOTES

BGS: below ground surface
mg/Kg: milligrams per Kilogram

F1: MS and/or MSD recovery exceeds control limits

F2: Indicates the MS/MSD RPD exceeds control limits

U: Indicates the analyte was analyzed for but not detected

LABORATORY REPORTS

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Simon Hudgens Lighthouse Environmental Services, Inc 4218 Pasadena Blvd Pasadena, Texas 77503

Generated 1/4/2023 1:12:14 PM

JOB DESCRIPTION

Montera 6" Release SDG NUMBER 2125-5742

JOB NUMBER

880-23147-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/4/2023 1:12:14 PM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296 Client: Lighthouse Environmental Services, Inc Project/Site: Montera 6" Release

Laboratory Job ID: 880-23147-1 SDG: 2125-5742

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	21
QC Sample Results	22
QC Association Summary	27
Lab Chronicle	32
Certification Summary	40
Method Summary	41
Sample Summary	42
Chain of Custody	43
Receint Checklists	46

Definitions/Glossary

Client: Lighthouse Environmental Services, Inc Job ID: 880-23147-1 Project/Site: Montera 6" Release

SDG: 2125-5742

Qualifiers

GC Semi VOA

F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

HPLC/IC

Qualifier

Qualifier	Qualifier Description
a, a a i i i i i	addinior Booonpaor

F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte 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) Limit of Detection (DoD/DOE) LOD Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MI Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Eurofins Midland

Case Narrative

Client: Lighthouse Environmental Services, Inc

Job ID: 880-23147-1 Project/Site: Montera 6" Release SDG: 2125-5742

Job ID: 880-23147-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-23147-1

Receipt

The samples were received on 12/29/2022 12:05 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 2.3°C

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-23147-A-2-C MS). Evidence of matrix interference is present: therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-4 (880-23147-4), CS-8 (880-23147-8) and CS-11 (880-23147-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-12 (880-23147-12), CS-18 (880-23147-18), CS-19 (880-23147-19) and CS-20 (880-23147-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS-13 (880-23147-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-43074 and analytical batch 880-43031 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: CS-26 (880-23147-26), CS-27 (880-23147-27), CS-28 (880-23147-28), (880-23147-A-26-C MS) and (880-23147-A-26-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: CS-21 (880-23147-21), CS-22 (880-23147-22), CS-23 (880-23147-23), CS-24 (880-23147-24) and CS-25 (880-23147-25). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43074 and analytical batch 880-43031 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-42887 and analytical batch 880-42998 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-42888 and analytical batch 880-42999 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: Lighthouse Environmental Services, Inc

Job ID: 880-23147-1 SDG: 2125-5742

Project/Site: Montera 6" Release Client Sample ID: CS-1 Lab Sample ID: 880-23147-1

Date Collected: 12/27/22 11:26 **Matrix: Solid**

Date Received: 12/29/22 12:05 Sample Depth: 36'

Method: SW846 8015 NM - Die	sel Range (Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2670		49.9	mg/Kg			01/04/23 11:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	343		49.9	mg/Kg		01/03/23 11:30	01/04/23 07:18	1
Diesel Range Organics (Over C10-C28)	2330		49.9	mg/Kg		01/03/23 11:30	01/04/23 07:18	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/23 11:30	01/04/23 07:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			01/03/23 11:30	01/04/23 07:18	1
o-Terphenyl (Surr)	100		70 - 130			01/03/23 11:30	01/04/23 07:18	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00	mg/Kg			01/03/23 14:41	1	

Client Sample ID: CS-2 Lab Sample ID: 880-23147-2 **Matrix: Solid**

Date Collected: 12/27/22 11:30 Date Received: 12/29/22 12:05

Sample Depth: 24"36"

Method: SW846 8015 NM - Die								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/04/23 11:53	1
 Method: SW846 8015B NM - D	iesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U -	49 9	ma/Ka		01/03/23 11:30	01/03/23 22:24	

Surrogate 1-Chlorooctane (Surr)	%Recovery	Qualifier	Limits 70 - 130		Prepared 01/03/23 11:30	Analyzed 01/03/23 22:24	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	01/03/23 11:30	01/03/23 22:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	01/03/23 11:30	01/03/23 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130	01/03/23 11:30	01/03/23 22:24	1
o-Terphenyl (Surr)	105		70 - 130	01/03/23 11:30	01/03/23 22:24	1
_						

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qu	ualifier R	_ Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04 U	5.0	mg/Kg			01/03/23 15:05	1

Client Sample ID: CS-3 Lab Sample ID: 880-23147-3 **Matrix: Solid**

Date Collected: 12/27/22 11:35 Date Received: 12/29/22 12:05

Sample Depth: 30"

(GRO)-C6-C10

Method: SW846 8015 NM - Die	sel Range C	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	_		01/04/23 11:53	1

Client: Lighthouse Environmental Services, Inc

Job ID: 880-23147-1 Project/Site: Montera 6" Release SDG: 2125-5742

Client Sample ID: CS-3 Lab Sample ID: 880-23147-3 **Matrix: Solid**

Date Collected: 12/27/22 11:35 Date Received: 12/29/22 12:05

Sample Depth: 30"

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/03/23 11:30	01/03/23 23:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/23 11:30	01/03/23 23:31	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/23 11:30	01/03/23 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			01/03/23 11:30	01/03/23 23:31	1
o-Terphenyl (Surr)	105		70 - 130			01/03/23 11:30	01/03/23 23:31	1

Method: MCAWW 300.0 - Anio	ns, Ion Chro	omatograp	hy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03	mg/Kg			01/03/23 15:13	1

Lab Sample ID: 880-23147-4 **Client Sample ID: CS-4** Date Collected: 12/27/22 11:40 **Matrix: Solid**

Date Received: 12/29/22 12:05

Sample Depth: 30"

Method: SW846 8015 NM - Die	esel Range C	Organics ((DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6450		49.8	mg/Kg			01/04/23 11:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2410		49.8	mg/Kg		01/03/23 11:30	01/04/23 03:59	1
Diesel Range Organics (Over C10-C28)	4040		49.8	mg/Kg	(01/03/23 11:30	01/04/23 03:59	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	(01/03/23 11:30	01/04/23 03:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	188	S1+	70 - 130		(01/03/23 11:30	01/04/23 03:59	1
o-Terphenyl (Surr)	136	S1+	70 - 130		(01/03/23 11:30	01/04/23 03:59	1

Method: MCAWW 300.0 - Anio	ns, Ion Chr	omatogra	phy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05	mg/Kg			01/03/23 15:21	1

Client Sample ID: CS-5 Lab Sample ID: 880-23147-5 Date Collected: 12/27/22 11:45 Matrix: Solid

Date Received: 12/29/22 12:05

Sample Depth: 30"

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/04/23 11:53	1
Method: SW846 8015B NM -		- 3 (- / (- /					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Client: Lighthouse Environmental Services, Inc

Job ID: 880-23147-1 Project/Site: Montera 6" Release SDG: 2125-5742

Client Sample ID: CS-5 Lab Sample ID: 880-23147-5 **Matrix: Solid**

Date Collected: 12/27/22 11:45 Date Received: 12/29/22 12:05

Sample Depth: 30"

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC) (C	ontinued)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/03/23 11:30	01/03/23 23:52	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/23 11:30	01/03/23 23:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130			01/03/23 11:30	01/03/23 23:52	1
o-Terphenyl (Surr)	107		70 - 130			01/03/23 11:30	01/03/23 23:52	1

Method: MCAWW 300.0 - Anio	ns, Ion Chr	omatograp	hy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			01/03/23 15:29	1

Lab Sample ID: 880-23147-6 **Client Sample ID: CS-6 Matrix: Solid**

Date Collected: 12/27/22 11:50 Date Received: 12/29/22 12:05

Sample Depth: 0-6"

Method: SW846 8015 NM - Die	sel Range C	Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1660		50.0	mg/Kg			01/04/23 11:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	64.0		50.0	mg/Kg		01/03/23 11:30	01/04/23 03:14	1
Diesel Range Organics (Over C10-C28)	1600		50.0	mg/Kg		01/03/23 11:30	01/04/23 03:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/04/23 03:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			01/03/23 11:30	01/04/23 03:14	1
o-Terphenvl (Surr)	102		70 - 130			01/03/23 11:30	01/04/23 03:14	1

	Method: MCAWW 300.0 - Anior	ns, Ion Chr	omatogra	ohy - Soluble					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	<5.03	U	5.03	mg/Kg			01/03/23 15:52	1

Lab Sample ID: 880-23147-7 **Client Sample ID: CS-7** Date Collected: 12/27/22 11:55 **Matrix: Solid**

Date Received: 12/29/22 12:05

Sample Depth: 0-6"

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	91.2		50.0	mg/Kg			01/04/23 11:53	1
Mothod: CW04C 004ED NM D								
Method: Syvo4b ou lab MW - D	iesei Kande	Organics (I	DRO) (GC)					
Analyte		Organics (I Qualifier	ORO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		Unit mg/Kg	<u>D</u>		Analyzed 01/04/23 00:15	Dil Fac
	Result	Qualifier	RL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier	RL		<u>D</u>	01/03/23 11:30		Dil Fa

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Lab Sample ID: 880-23147-7

Client Sample ID: CS-7 Date Collected: 12/27/22 11:55 Date Received: 12/29/22 12:05

Matrix: Solid

Job ID: 880-23147-1

SDG: 2125-5742

Sample Depth: 0-6"

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/04/23 00:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			01/03/23 11:30	01/04/23 00:15	1
o-Terphenyl (Surr)	102		70 - 130			01/03/23 11:30	01/04/23 00:15	1

Method: MCAWW 300.0 - Anion	s, Ion Chr	omatograph	ny - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.0		5.01	mg/Kg			01/03/23 16:00	1

Client Sample ID: CS-8 Lab Sample ID: 880-23147-8 Date Collected: 12/27/22 12:00 Matrix: Solid

Date Received: 12/29/22 12:05

Sample Depth: 36"

Method: SW846 8015 NM - Die	sel Range Organics (Di	RO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8050	250	mg/Kg			01/04/23 11:53	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2820		250	mg/Kg		01/03/23 11:30	01/04/23 04:43	5
Diesel Range Organics (Over C10-C28)	5230		250	mg/Kg		01/03/23 11:30	01/04/23 04:43	5
Oll Range Organics (Over C28-C36)	<250	U	250	mg/Kg		01/03/23 11:30	01/04/23 04:43	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	176	S1+	70 - 130			01/03/23 11:30	01/04/23 04:43	5
o-Terphenyl (Surr)	139	S1+	70 - 130			01/03/23 11:30	01/04/23 04:43	5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	<5.00	U	5.00	mg/Kg			01/03/23 16:19	1

Lab Sample ID: 880-23147-9 **Client Sample ID: CS-9** Date Collected: 12/27/22 12:05 **Matrix: Solid**

Date Received: 12/29/22 12:05

Sample Depth: 36"

Method: SW846 8015 NM - Dies	Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Total TPH	9490	250	mg/Kg			01/04/23 11:53	1			
- Method: SW846 8015B NM - Die	esel Range Organics	(DRO) (GC)								
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	3020	250	mg/Kg		01/03/23 11:30	01/04/23 05:05	5			
Diesel Range Organics (Over C10-C28)	6470	250	mg/Kg		01/03/23 11:30	01/04/23 05:05	5			
Oll Range Organics (Over C28-C36)	<250 U	250	mg/Kg		01/03/23 11:30	01/04/23 05:05	5			

Job ID: 880-23147-1

SDG: 2125-5742

Client Sample Results

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Lab Sample ID: 880-23147-9

01/03/23 11:30 01/04/23 00:38

01/03/23 11:30 01/04/23 04:21

Client Sample ID: CS-9 Date Collected: 12/27/22 12:05 **Matrix: Solid**

Date Received: 12/29/22 12:05

Sample Depth: 36"

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130	01/03/23 11:30	01/04/23 05:05	5
o-Terphenyl (Surr)	115		70 - 130	01/03/23 11:30	01/04/23 05:05	5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96 I	U	4.96	mg/Kg			01/03/23 16:28	1

Client Sample ID: CS-10 Lab Sample ID: 880-23147-10 **Matrix: Solid**

Date Collected: 12/27/22 12:10 Date Received: 12/29/22 12:05

Sample Depth: 12-14"

C10-C28)

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	295		50.0	mg/Kg			01/04/23 11:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Unit Analyte RL Prepared Analyzed Dil Fac <50.0 U 50.0 01/03/23 11:30 01/04/23 00:38 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 50.0 mg/Kg 01/03/23 11:30 01/04/23 00:38 295

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	01/03/23 11:30	01/04/23 00:38	1
o-Terphenyl (Surr)	97		70 - 130	01/03/23 11:30	01/04/23 00:38	1

50.0

mg/Kg

mg/Kg

Method: MCAWW 300 0 - Anions, Ion Chromatography - Soluble

<50.0 U

<50.0 U

motifical movement cools	, uniono, ion om	omatog. up	niy Colub						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<4.96	U	4.96	mg/Kg			01/03/23 16:36	1	

Client Sample ID: CS-11 Lab Sample ID: 880-23147-11 **Matrix: Solid**

Date Collected: 12/27/22 12:15 Date Received: 12/29/22 12:05

Oll Range Organics (Over C28-C36)

Oll Range Organics (Over C28-C36)

Sample Depth: 0-6"

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	4990		50.0	mg/Kg			01/04/23 11:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac				
Gasoline Range Organics (GRO)-C6-C10	1380	50.0	mg/Kg	01/03/23 11:30	01/04/23 04:21	1				
Diesel Range Organics (Over C10-C28)	3610	50.0	mg/Kg	01/03/23 11:30	01/04/23 04:21	1				

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	158	S1+	70 - 130	01/03/23 11:30	01/04/23 04:21	1
o-Terphenyl (Surr)	117		70 - 130	01/03/23 11:30	01/04/23 04:21	1

50.0

Client: Lighthouse Environmental Services, Inc
Project/Site: Montera 6" Release

Job ID: 880-23147-1
SDG: 2125-5742

Client Sample ID: CS-11

Lab Sample ID: 880-23147-11

Date Collected: 12/27/22 12:15

Date Received: 12/29/22 12:05

Matrix: Solid

Sample Depth: 0-6"

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<4.95	U F1	4.95	mg/Kg			01/03/23 16:44	1

Client Sample ID: CS-12

Date Collected: 12/27/22 12:20

Lab Sample ID: 880-23147-12

Matrix: Solid

Date Collected: 12/27/22 12:20 Date Received: 12/29/22 12:05

Sample Depth: 6-12"

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	4220		49.9	mg/Kg			01/04/23 11:53	1

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	629		49.9	mg/Kg		01/03/23 11:30	01/04/23 06:33	1
Diesel Range Organics (Over C10-C28)	3590		49.9	mg/Kg		01/03/23 11:30	01/04/23 06:33	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/23 11:30	01/04/23 06:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	146	S1+	70 - 130			01/03/23 11:30	01/04/23 06:33	1

Method: MCAWW 300.0 - Anio	ons, Ion Chron	natograph	ıy - Soluble					
Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.95		5.05	mg/Kg			01/03/23 17:09	1

70 - 130

127

Client Sample ID: CS-13

Date Collected: 12/27/22 12:25

Lab Sample ID: 880-23147-13

Matrix: Solid

Date Collected: 12/27/22 12:25 Date Received: 12/29/22 12:05

Sample Depth: 24"

o-Terphenyl (Surr)

Method: SW846 8015 NM - D			RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2430		49.9	mg/Kg			01/04/23 11:53	1
Method: SW846 8015B NM -	Diesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	150		49.9	mg/Kg		01/03/23 11:30	01/04/23 08:09	1

1-Chlorooctane (Surr)	237	S1+	70 - 130		01/03/23 11:30	01/04/23 08:09	1	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	01/03/23 11:30	01/04/23 08:09	1	
Diesel Range Organics (Over C10-C28)	2280		49.9	mg/Kg	01/03/23 11:30	01/04/23 08:09	1	

Surrogate	701 GCOVET y	Quanner	Liiiii	Trepared And	aryzeu i	Dii i ac	
1-Chlorooctane (Surr)	237	S1+	70 - 130	01/03/23 11:30 01/04/	/23 08:09	1	
o-Terphenyl (Surr)	202	S1+	70 - 130	01/03/23 11:30 01/04/	/23 08:09	1	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03	mg/Kg			01/03/23 17:18	1

Eurofins Midland

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1 SDG: 2125-5742

Client Sample ID: CS-14 Lab Sample ID: 880-23147-14

Matrix: Solid

Date Collected: 12/27/22 12:30 Date Received: 12/29/22 12:05

Sample Depth: 5'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	297		50.0	mg/Kg			01/04/23 11:53	1

231		00.0	mg/rtg			0 1/0 1/20 11:00	•
iesel Range	e Organics	(DRO) (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/04/23 01:01	1
297		50.0	mg/Kg		01/03/23 11:30	01/04/23 01:01	1
<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/04/23 01:01	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
110		70 - 130			01/03/23 11:30	01/04/23 01:01	1
	riesel Range Result <50.0 297 <50.0	Result Qualifier <50.0 U Recovery Qualifier Qualifier Qualifier	Nesult Qualifier RL Solut Column Col	Nesult Qualifier RL Unit mg/Kg	Name	Nesult Qualifier RL Unit mg/Kg D Prepared 01/03/23 11:30	Name

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.01	U	5.01	mg/Kg			01/03/23 17:43	1	

70 - 130

96

Client Sample ID: CS-15 Lab Sample ID: 880-23147-15 **Matrix: Solid**

Date Collected: 12/27/22 12:35

Date Received: 12/29/22 12:05

Sample Depth: 48"

o-Terphenyl (Surr)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6320		250	mg/Kg			01/04/23 11:53	1
Method: SW846 8015B NM - D	iesel Range	e Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1110		250	mg/Kg		01/03/23 11:30	01/04/23 05:28	5
Diesel Range Organics (Over C10-C28)	5210		250	mg/Kg		01/03/23 11:30	01/04/23 05:28	5
Oll Range Organics (Over C28-C36)	<250	U	250	mg/Kg		01/03/23 11:30	01/04/23 05:28	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	128		70 - 130			01/03/23 11:30	01/04/23 05:28	5
o-Terphenyl (Surr)	119		70 - 130			01/03/23 11:30	01/04/23 05:28	5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<5.01	U	5.01	mg/Kg			01/03/23 17:51	1

Client Sample ID: CS-16 Lab Sample ID: 880-23147-16 **Matrix: Solid**

Date Collected: 12/27/22 12:40

Date Received: 12/29/22 12:05

Sample Depth: 18'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result Qual	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	318	50.0	mg/Kg			01/04/23 11:53	1	

01/03/23 17:59

Client: Lighthouse Environmental Services, Inc Project/Site: Montera 6" Release SDG: 2125-5742

Client Sample ID: CS-16 Lab Sample ID: 880-23147-16

Date Collected: 12/27/22 12:40 **Matrix: Solid** Date Received: 12/29/22 12:05

Sample Depth: 18'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	65.0		50.0	mg/Kg		01/03/23 11:30	01/04/23 01:23	1
Diesel Range Organics (Over C10-C28)	253		50.0	mg/Kg		01/03/23 11:30	01/04/23 01:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/04/23 01:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130			01/03/23 11:30	01/04/23 01:23	1
o-Terphenyl (Surr)	96		70 - 130			01/03/23 11:30	01/04/23 01:23	1
Method: MCAWW 300.0 - Anio	ons. Ion Chr	omatograi	ohv - Soluble					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.02 Chloride 5.03 mg/Kg Client Sample ID: CS-17 Lab Sample ID: 880-23147-17

Date Collected: 12/27/22 12:45 **Matrix: Solid**

Date Received: 12/29/22 12:05

Sample Depth: 18'

Method: SW846 8015 NM - D	iesel Range (Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1720		50.0	mg/Kg			01/04/23 11:53	1
- Method: SW846 8015B NM -	Diesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	/117		50.0	ma/Ka		01/03/23 11:30	01/04/23 01:46	1

Allalyte	Result	Qualifier	NL.	Onit	ט	riepaieu	Allalyzeu	DII Fac
Gasoline Range Organics (GRO)-C6-C10	417		50.0	mg/Kg	_	01/03/23 11:30	01/04/23 01:46	1
Diesel Range Organics (Over C10-C28)	1300		50.0	mg/Kg		01/03/23 11:30	01/04/23 01:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/04/23 01:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130			01/03/23 11:30	01/04/23 01:46	1

Method: MCAWW 300 0 - Anions	Ion Chromate	ography - Soluble		
o-Terphenyl (Surr)	102	70 - 130	01/03/23 11:30 01/04/23 01:46	1
1-Chlorooctane (Surr)	123	70 - 130	01/03/23 11:30 01/04/23 01:46	1

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5.00 01/03/23 18:08 Chloride 14.3 mg/Kg

Client Sample ID: CS-18 Lab Sample ID: 880-23147-18 Date Collected: 12/27/22 12:50

Date Received: 12/29/22 12:05 Sample Depth: 18'

Total TPH	8400	250					
		230	mg/Kg			01/04/23 11:53	
Method: SW846 8015B NM - D	iesei Kange Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	3800	250	mg/Kg		01/03/23 11:30	01/04/23 05:50	

Eurofins Midland

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1 SDG: 2125-5742

Client Sample ID: CS-18

Date Collected: 12/27/22 12:50

Lab Sample ID: 880-23147-18

Matrix: Solid

Date Collected: 12/27/22 12:50 Date Received: 12/29/22 12:05

Sample Depth: 18'

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC) (Co	ontinued)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	4600		250	mg/Kg		01/03/23 11:30	01/04/23 05:50	5
OII Range Organics (Over C28-C36)	<250	U	250	mg/Kg		01/03/23 11:30	01/04/23 05:50	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	132	S1+	70 - 130			01/03/23 11:30	01/04/23 05:50	5

o-Terphenyl (Surr)	109		70 - 130			01/03/23 11:30	01/04/23 05:50	5
Method: MCAWW 300.0 - Anion	s, Ion Chr	omatograp	hy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.8		4.97	mg/Kg	_		01/03/23 18:16	1

Client Sample ID: CS-19

Date Collected: 12/27/22 12:55

Lab Sample ID: 880-23147-19

Matrix: Solid

Date Collected: 12/27/22 12:55 Date Received: 12/29/22 12:05

Sample Depth: 18'

	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11500		249	mg/Kg			01/04/23 11:53	1

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5270		249	mg/Kg		01/03/23 11:30	01/04/23 06:12	5
Diesel Range Organics (Over C10-C28)	6230		249	mg/Kg		01/03/23 11:30	01/04/23 06:12	5
Oll Range Organics (Over C28-C36)	<249	U	249	mg/Kg		01/03/23 11:30	01/04/23 06:12	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	187	S1+	70 - 130			01/03/23 11:30	01/04/23 06:12	5
o-Terphenyl (Surr)	127		70 - 130			01/03/23 11:30	01/04/23 06:12	5

Method: MCAWW 300.0 - Anio	ns, Ion Chr	omatogra	phy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.26		4.99	mg/Kg			01/03/23 18:24	1

Client Sample ID: CS-20

Date Collected: 12/27/22 13:00

Lab Sample ID: 880-23147-20

Matrix: Solid

Date Received: 12/29/22 12:05

Sample Depth: 18'

Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5720	49.9	mg/Kg			01/04/23 11:53	1
Marklanda OMO 40 OO 45D NIMA D							
Method: SW846 8015B NW - D	Diesel Range Ord	ianics (DRO) (GC)					
	Diesel Range Org Result Qua		Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10			Unit mg/Kg	<u>D</u>		Analyzed 01/04/23 06:55	Dil Fac

Job ID: 880-23147-1

SDG: 2125-5742

Client Sample Results

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Lab Sample ID: 880-23147-20

Client Sample ID: CS-20 Date Collected: 12/27/22 13:00 Date Received: 12/29/22 12:05

Matrix: Solid

Sample Depth: 18'

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC) (C	ontinued)				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/23 11:30	01/04/23 06:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	171	S1+	70 - 130			01/03/23 11:30	01/04/23 06:55	1
o-Terphenyl (Surr)	126		70 - 130			04/00/00 44:00	01/04/23 06:55	4

	Method: MCAWW 300.0 - Anion	s, Ion Chr	omatograph	ny - Soluble					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	53.9		5.03	mg/Kg			01/03/23 18:33	1

Client Sample ID: CS-21 Lab Sample ID: 880-23147-21

Date Collected: 12/27/22 13:05

Matrix: Solid

Date Received: 12/29/22 12:05

Sample Depth: 18'

Method: SW846 8015 NM - Dies	sel Range O	rganics (D	ORO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	14300		249	mg/Kg			01/04/23 12:42	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1140	249	mg/Kg		01/03/23 11:37	01/04/23 04:21	5
Diesel Range Organics (Over C10-C28)	11700	249	mg/Kg		01/03/23 11:37	01/04/23 04:21	5
Oll Range Organics (Over C28-C36)	1440	249	mg/Kg		01/03/23 11:37	01/04/23 04:21	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	161	S1+	70 - 130	01/03/23 11:37	01/04/23 04:21	5
o-Terphenyl (Surr)	191	S1+	70 - 130	01/03/23 11:37	01/04/23 04:21	5

Method: MCAWW 300.0 - Anior	ns, Ion Chro	omatogra	phy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.6	F1	5.00	mg/Kg			01/03/23 14:06	1

Lab Sample ID: 880-23147-22 **Client Sample ID: CS-22** Matrix: Solid

Date Collected: 12/27/22 13:10 Date Received: 12/29/22 12:05

Diesel Range Organics (Over

C10-C28)

Sample Depth: 18'

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	26600	250	mg/Kg			01/04/23 12:42	-
Method: SW846 8015B NM -	Diesel Range Organics (DRO) (GC)					
		, , ,	linit	D	Droporod	Anglyzad	Dil Eo
Method: SW846 8015B NM - Analyte	Diesel Range Organics (Result Qualifier	DRO) (GC) RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Analyte Gasoline Range Organics		, , ,	Unit mg/Kg	<u>D</u>		Analyzed 01/04/23 04:43	Dil Fa

250

19500

mg/Kg

Eurofins Midland

01/03/23 11:37 01/04/23 04:43

Client: Lighthouse Environmental Services, Inc Job ID: 880-23147-1

Project/Site: Montera 6" Release SDG: 2125-5742

Client Sample ID: CS-22 Lab Sample ID: 880-23147-22 Date Collected: 12/27/22 13:10 **Matrix: Solid**

Date Received: 12/29/22 12:05 Sample Depth: 18'

Method: SW846 8015B NM -	- Diesei Range Organics Result Qualifier	(DRO) (GC) (C	Ontinuea) Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	2430	250	mg/Kg		01/03/23 11:37	01/04/23 04:43	5
Surrogate	%Recovery Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared Analyz	ed Dil Fac
1-Chlorooctane (Surr)	391 S1+	70 - 130	01/03/23 11:37 01/04/23	04:43 5
o-Terphenyl (Surr)	344 S1+	70 - 130	01/03/23 11:37 01/04/23	04:43 5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Unit Prepared Analyzed Dil Fac 5.02 01/03/23 14:20 Chloride 73.9 mg/Kg

Client Sample ID: CS-23 Lab Sample ID: 880-23147-23

Date Collected: 12/27/22 13:15 Date Received: 12/29/22 12:05

Sample Depth: 18'

Method: SW846 8015 NM - Die	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19400		250	mg/Kg			01/04/23 12:42	1

Method: SW846 8015B NM -	Diesel Range Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2340	250	mg/Kg		01/03/23 11:37	01/04/23 05:05	5
Diesel Range Organics (Over C10-C28)	15300	250	mg/Kg		01/03/23 11:37	01/04/23 05:05	5
Oll Range Organics (Over C28-C36)	1750	250	mg/Kg		01/03/23 11:37	01/04/23 05:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	297	S1+	70 - 130	01/03/23 11:37	01/04/23 05:05	5
o-Terphenyl (Surr)	250	S1+	70 - 130	01/03/23 11:37	01/04/23 05:05	5

Method: MCAWW 300.0 - Anio	ns, Ion Chro	omatograp	hy - Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.6		5.00	mg/Kg			01/03/23 14:25	1

Client Sample ID: CS-24 Lab Sample ID: 880-23147-24

Date Collected: 12/27/22 13:20 Date Received: 12/29/22 12:05

Released to Imaging: 4/24/2023 11:17:12 AM

Sample Depth: 18'

Method: SW846 8015 NM - Die	sel Range Organics ([ORO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15200	249	ma/Ka			01/04/23 12:42	

Method: SW846 8015B NM - I	Diesel Range Organic	s (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2590	249	mg/Kg		01/03/23 11:37	01/04/23 05:28	5
Diesel Range Organics (Over C10-C28)	11300	249	mg/Kg		01/03/23 11:37	01/04/23 05:28	5

Eurofins Midland

Matrix: Solid

Client: Lighthouse Environmental Services, Inc Job ID: 880-23147-1

Project/Site: Montera 6" Release SDG: 2125-5742

Client Sample ID: CS-24 Lab Sample ID: 880-23147-24

Date Collected: 12/27/22 13:20 **Matrix: Solid** Date Received: 12/29/22 12:05

Sample Depth: 18'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	1340		249	mg/Kg		01/03/23 11:37	01/04/23 05:28	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	229	S1+	70 - 130			01/03/23 11:37	01/04/23 05:28	5
o-Terphenyl (Surr)	100	S1+	70 - 130			01/03/23 11:37	01/04/23 05:28	5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	60.3		4.98	mg/Kg			01/03/23 14:39	1

Client Sample ID: CS-25 Lab Sample ID: 880-23147-25 **Matrix: Solid**

Date Collected: 12/27/22 13:25 Date Received: 12/29/22 12:05

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

459 S1+

309 S1+

Sample Depth: 18'

Method: SW846 8015 NM - Die	sel Range O	rganics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	25500		249	mg/Kg			01/04/23 12:42	1

Analyte	Result Qualifier	RL	Unit	D Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	6120	249	mg/Kg	01/03/23 11:37	01/04/23 05:50	5
Diesel Range Organics (Over C10-C28)	17300	249	mg/Kg	01/03/23 11:37	01/04/23 05:50	5
OII Range Organics (Over C28-C36)	2120	249	mg/Kg	01/03/23 11:37	01/04/23 05:50	5
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac

Method: MCAWW 300.0	- Anions, Ion Chromatograph	ny - Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.5	4.95	mg/Kg			01/03/23 14:44	1

70 - 130

70 - 130

Client Sample ID: CS-26 Lab Sample ID: 880-23147-26 **Matrix: Solid**

Date Collected: 12/27/22 13:30 Date Received: 12/29/22 12:05

Sample Depth: 17'

1-Chlorooctane (Surr)

o-Terphenyl (Surr)

Method: SW846 8015 NM - I	Diesel Range Organics (D	RO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			01/04/23 12:42	1

Method: SW846 8015B NM -	Diesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	50.0	mg/Kg		01/03/23 11:37	01/03/23 22:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0	mg/Kg		01/03/23 11:37	01/03/23 22:24	1

Eurofins Midland

01/03/23 11:37 01/04/23 05:50

01/03/23 11:37 01/04/23 05:50

5

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

SDG: 2125-5742

Client Sample ID: CS-26 Date Collected: 12/27/22 13:30 Lab Sample ID: 880-23147-26

Date Received: 12/29/22 12:05

Matrix: Solid

Job ID: 880-23147-1

Sample Depth: 17'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 22:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130			01/03/23 11:37	01/03/23 22:24	1
o-Terphenyl (Surr)	131	S1+	70 - 130			01/03/23 11:37	01/03/23 22:24	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	68.5		5.00	mg/Kg			01/03/23 14:48	1

Client Sample ID: CS-27

Lab Sample ID: 880-23147-27

Date Collected: 12/27/22 13:35 Date Received: 12/29/22 12:05

Matrix: Solid

Sample Depth: 18'

Method: SW846 8015 NM - Die	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	106		50.0	mg/Kg			01/04/23 12:42	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 23:31	1
Diesel Range Organics (Over C10-C28)	106		50.0	mg/Kg		01/03/23 11:37	01/03/23 23:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130			01/03/23 11:37	01/03/23 23:31	1
o-Terphenyl (Surr)	132	S1+	70 - 130			01/03/23 11:37	01/03/23 23:31	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	48.4		4.99	mg/Kg			01/03/23 14:53	1

Client Sample ID: CS-28 Lab Sample ID: 880-23147-28 Date Collected: 12/27/22 13:40 **Matrix: Solid**

Date Received: 12/29/22 12:05 Sample Depth: 8'

Method: SW846 8015 NM - Dies	el Range	Organics (D	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/04/23 12:42	1
_ Method: SW846 8015B NM - Die	sel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 23:52	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 23:52	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 23:52	1

Job ID: 880-23147-1

Lab Sample ID: 880-23147-29

01/03/23 11:37 01/04/23 00:15

Client Sample Results

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

SDG: 2125-5742

Client Sample ID: CS-28 Lab Sample ID: 880-23147-28 Date Collected: 12/27/22 13:40 **Matrix: Solid**

Date Received: 12/29/22 12:05

Sample Depth: 8'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	139	S1+	70 - 130	01/03/23 11:37	01/03/23 23:52	1
o-Terphenyl (Surr)	141	S1+	70 - 130	01/03/23 11:37	01/03/23 23:52	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01 L	J	5.01	mg/Kg			01/03/23 14:58	1

Client Sample ID: CS-29

Date Collected: 12/27/22 13:45 Date Received: 12/29/22 12:05

Sample Depth: 8'

	Method: SW846 8015 NM - Diese	Range	Organics (D	RO) (GC)					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<50.0	U	50.0	mg/Kg			01/04/23 12:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte Unit RL Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 01/03/23 11:37 01/04/23 00:15 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/03/23 11:37 01/04/23 00:15 C10-C28)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	01/03/23 11:37	01/04/23 00:15	1
o-Terphenyl (Surr)	119		70 - 130	01/03/23 11:37 0	01/04/23 00:15	1

50.0

mg/Kg

Method: MCAWW 300 0 - Anions, Ion Chromatography - Soluble

<50.0 U

monious mornists could	, uniono, ion om	omatog.up	ny colub					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			01/03/23 15:03	1

Client Sample ID: CS-30 Lab Sample ID: 880-23147-30

Date Collected: 12/27/22 13:50 Date Received: 12/29/22 12:05

Oll Range Organics (Over C28-C36)

Sample Depth: 0-6"

Method: SW846 8015 NM - Die	sel Range (Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	299		50.0	mg/Kg			01/04/23 12:42	1

Method: SW846 8015B NM	- Diesel Range Organics	(DRO) (GC)	
	- u - uc		

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/04/23 00:38	1
(GRO)-C6-C10								
Diesel Range Organics (Over	299		50.0	mg/Kg		01/03/23 11:37	01/04/23 00:38	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/04/23 00:38	1

	Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
	1-Chlorooctane (Surr)	110		70 - 130	01/03/23 11:37 01/04/23 00:38	1
l	o-Terphenyl (Surr)	118		70 - 130	01/03/23 11:37 01/04/23 00:38	1

Eurofins Midland

Matrix: Solid

Client Sample ID: CS-30

Date Collected: 12/27/22 13:50

Client Sample Results

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Lab Sample ID: 880-23147-30

Matrix: Solid

Job ID: 880-23147-1

SDG: 2125-5742

Date Received: 12/29/22 12:05 Sample Depth: 0-6"

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<4.98	U	4.98	mg/Kg			01/03/23 15:16	1			

Client Sample ID: CS-31 Lab Sample ID: 880-23147-31

Date Collected: 12/27/22 13:55 **Matrix: Solid**

Date Received: 12/29/22 12:05

Sample Depth: 0-6"

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Total TPH	<50.0	U	50.0	mg/Kg			01/04/23 12:42	1		

Method: SW846 8015B NM - D	Diesel Range	e Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/04/23 01:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/04/23 01:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/04/23 01:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130			01/03/23 11:37	01/04/23 01:01	1
o-Terphenyl (Surr)	124		70 - 130			01/03/23 11:37	01/04/23 01:01	1

ı	Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
l	Chloride	35.7		4.96	mg/Kg			12/31/22 05:12	1			

Surrogate Summary

Client: Lighthouse Environmental Services, Inc
Project/Site: Montera 6" Release

Job ID: 880-23147-1
SDG: 2125-5742

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Perc	ent Surrogate Recovery (Acceptance Limits
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
80-23147-1	CS-1	118	100	
30-23147-2	CS-2	117	105	
30-23147-2 MS	CS-2	133 S1+	106	
0-23147-2 MSD	CS-2	127	102	
30-23147-3	CS-3	117	105	
0-23147-4	CS-4	188 S1+	136 S1+	
30-23147-5	CS-5	121	107	
30-23147-6	CS-6	118	102	
80-23147-7	CS-7	118	102	
0-23147-8	CS-8	176 S1+	139 S1+	
30-23147-9	CS-9	123	115	
30-23147-10	CS-10	111	97	
0-23147-11	CS-11	158 S1+	117	
0-23147-12	CS-12	146 S1+	127	
0-23147-13	CS-13	237 S1+	202 S1+	
0-23147-14	CS-14	110	96	
0-23147-15	CS-15	128	119	
)-23147-16	CS-16	109	96	
)-23147-17	CS-17	123	102	
-23147-18	CS-18	132 S1+	109	
-23147-19	CS-19	187 S1+	127	
-23147-10	CS-20	171 S1+	126	
)-23147-21	CS-21	161 S1+	191 S1+	
-23147-21	CS-22	391 S1+	344 S1+	
)-23147-23	CS-23	297 S1+	250 S1+	
0-23147-24	CS-24	229 S1+	188 S1+	
D-23147-24 D-23147-25	CS-25	459 S1+	309 S1+	
)-23147-26	CS-26	118	131 S1+	
)-23147-26 MS	CS-26	128	133 S1+	
0-23147-26 MSD	CS-26	128	134 S1+	
)-23147-27	CS-27	122	132 S1+	
0-23147-27 0-23147-28	CS-28	139 S1+	132 S1+	
)-23147-20)-23147-29	CS-29	110	119	
0-23147-29	CS-30	110	118	
0-23147-30 0-23147-31	CS-31	114	124	
S 880-43073/2-A	Lab Control Sample	95	83	
S 880-43074/2-A	Lab Control Sample	92	96	
CSD 880-43073/3-A	Lab Control Sample Dup	115	98	
CSD 880-43073/3-A	Lab Control Sample Dup	92	99	
B 880-43073/1-A	Method Blank	113	104	
IB 880-43074/1-A	Method Blank	114	133 S1+	
000-43014/ I-A	IVIELLIOU DIALIK	114	133 31+	

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1 SDG: 2125-5742

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43073/1-A

Lab Sample ID: LCS 880-43073/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 43029

Analysis Batch: 43029

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43073

		MB	MB						
Analy	yte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	line Range Organics 0)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/03/23 21:17	1
Diese C10-0	Range Organics (Over C28)	<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/03/23 21:17	1
OII R	ange Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:30	01/03/23 21:17	1
		MB	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130	01/03/23 11:30	01/03/23 21:17	1
o-Terphenyl (Surr)	104		70 - 130	01/03/23 11:30	01/03/23 21:17	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43073

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	941.1		mg/Kg		94	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	905.4		mg/Kg		91	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane (Surr)	95	70 - 130
o-Terphenyl (Surr)	83	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-43073/3-A

Analysis Batch: 43029

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier D %Rec Limit Analyte Unit Limits RPD Gasoline Range Organics 1000 1049 mg/Kg 105 70 - 130 11 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1068 mg/Kg 107 70 - 130 16 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	115		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Lab Sample ID: 880-23147-2 MS

Matrix: Solid

Analysis Batch: 43029

Client Sample ID: CS-2 Prep Type: Total/NA

Prep Batch: 43073

7 many one Datem 10020										
-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1195		mg/Kg		117	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1176		mg/Kg		118	70 - 130	

Eurofins Midland

Prep Type: Total/NA Prep Batch: 43073

Prep Batch: 43073

Client: Lighthouse Environmental Services, Inc

Job ID: 880-23147-1 Project/Site: Montera 6" Release SDG: 2125-5742

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-23147-2 MS Client Sample ID: CS-2 **Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 43029

MS MS %Recovery Qualifier Surrogate Limits 1-Chlorooctane (Surr) 133 S1+ 70 - 130 o-Terphenyl (Surr) 106 70 - 130

Lab Sample ID: 880-23147-2 MSD **Client Sample ID: CS-2** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 43029

MB MB

Analysis Batch: 43029									Prep E	atch: 4	13073
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1167		mg/Kg		115	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1106		mg/Kg		111	70 - 130	6	20

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 127 70 - 130 70 - 130 o-Terphenyl (Surr) 102

Lab Sample ID: MB 880-43074/1-A

Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Prep Batch: 43074 **Analysis Batch: 43031** MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 21:17	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 21:17	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/23 11:37	01/03/23 21:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130	01/03/23 11:37	01/03/23 21:17	1
o-Terphenyl (Surr)	133	S1+	70 - 130	01/03/23 11:37	01/03/23 21:17	1

M

ab Sample ID: LCS 880-43074/2-A			Client Sample ID: Lab Control Sample
Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 43031			Prep Batch: 43074
	Spike	LCS LCS	%Rec

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	902.1		mg/Kg		90	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	976.1		mg/Kg		98	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane (Surr)	92		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Eurofins Midland

Released to Imaging: 4/24/2023 11:17:12 AM

QC Sample Results

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1 SDG: 2125-5742

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-43074/3-A

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 43074

Analysis Batch: 43031 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier %Rec Limits RPD Limit Analyte Unit Gasoline Range Organics 1000 1038 mg/Kg 104 70 - 130 14 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 977.1 98 mg/Kg 70 - 130O 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifi	er Limits
1-Chlorooctane (Surr)	92	70 - 130
o-Terphenyl (Surr)	99	70 - 130

Client Sample ID: CS-26

Matrix: Solid								Prep Type: Total/NA
Analysis Batch: 43031								Prep Batch: 43074
	Sample Sar	ample Spike	MS	MS				%Rec
Analyte	Result Qu	ualifier Added	Result	Qualifier	Unit	D	%Rec	Limits

Gasoline Range Organics <50.0 U F1 999 1347 F1 mg/Kg 132 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 UF1 999 1604 F1 mg/Kg 156 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 128 70 - 130 o-Terphenyl (Surr) 133 S1+ 70 - 130

Lab Sample ID: 880-23147-26 MS

Analysis Batch: 43031

Lab Sample ID: 880-23147-26 MSD Client Sample ID: CS-26 **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 43074 Sample Sample Spike MSD MSD %Rec **RPD**

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics <50.0 U F1 999 1359 F1 20 133 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U F1 999 1616 F1 157 70 - 130 20 mg/Kg

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	128		70 - 130
o-Terphenyl (Surr)	134	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-42868/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42948

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/31/22 02:51	1

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1 SDG: 2125-5742

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-42868/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42948

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Chloride 250 263.9 mg/Kg 106 90 - 110

Lab Sample ID: LCSD 880-42868/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42948

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 90 - 110 Chloride 256.2 mg/Kg 102

Lab Sample ID: MB 880-42887/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42998

MB MB

Result Qualifier RL Unit **Analyte** D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 01/03/23 12:01 mg/Kg

Lab Sample ID: LCS 880-42887/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42998

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 258.9 Chloride 250 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-42887/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42998

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 260.2 104 90 - 110 mg/Kg 0 20

Lab Sample ID: 880-23147-21 MS

Matrix: Solid

Analysis Batch: 42998

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits 35.6 F1 250 Chloride 314.8 F1 mg/Kg 112 90 - 110

Lab Sample ID: 880-23147-21 MSD

Released to Imaging: 4/24/2023 11:17:12 AM

Matrix: Solid

Analysis Batch: 42998

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Analyte Unit D %Rec 35.6 F1 250 315.8 F1 Chloride mg/Kg 112 90 - 110 0

Lab Sample ID: MB 880-42888/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42999

MB MB Unit Result Qualifier RL Analyte D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 01/03/23 14:17 mg/Kg

Eurofins Midland

Client Sample ID: CS-21 **Prep Type: Soluble**

Client Sample ID: CS-21

Prep Type: Soluble

Limit

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1 SDG: 2125-5742

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: CS-1

Client Sample ID: CS-1

Client Sample ID: CS-11

Client Sample ID: CS-11

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-42888/2-A

Matrix: Solid

Analysis Batch: 42999

LCS LCS Spike %Rec Result Qualifier Added Limits Analyte Unit D %Rec 90 - 110 Chloride 250 267.9 mg/Kg 107

Lab Sample ID: LCSD 880-42888/3-A **Matrix: Solid**

Analysis Batch: 42999

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit D %Rec Limits RPD Limit Analyte 250 257.3 103 90 - 110 Chloride mg/Kg

Lab Sample ID: 880-23147-1 MS

Matrix: Solid

Analysis Batch: 42999

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits **Analyte** Unit D %Rec Chloride <5.00 U 250 259.6 104 90 - 110 mg/Kg

Lab Sample ID: 880-23147-1 MSD

Matrix: Solid

Analysis Batch: 42999

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride <5.00 250 270.0 108 mg/Kg 90 - 110

Lab Sample ID: 880-23147-11 MS

Matrix: Solid

Analysis Batch: 42999

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Unit %Rec Result Qualifier Limits Chloride <4.95 U F1 248 92 231.8 mg/Kg 90 - 110

Lab Sample ID: 880-23147-11 MSD

Matrix: Solid

Analysis Batch: 42999

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec <4.95 U F1 248 Chloride 210.8 F1 mg/Kg 84 90 - 110 10 20

Client: Lighthouse Environmental Services, Inc
Project/Site: Montera 6" Release

Job ID: 880-23147-1
SDG: 2125-5742

GC Semi VOA

Analysis Batch: 43029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-1	CS-1	Total/NA	Solid	8015B NM	43073
880-23147-2	CS-2	Total/NA	Solid	8015B NM	43073
880-23147-3	CS-3	Total/NA	Solid	8015B NM	43073
880-23147-4	CS-4	Total/NA	Solid	8015B NM	43073
880-23147-5	CS-5	Total/NA	Solid	8015B NM	43073
880-23147-6	CS-6	Total/NA	Solid	8015B NM	43073
880-23147-7	CS-7	Total/NA	Solid	8015B NM	43073
880-23147-8	CS-8	Total/NA	Solid	8015B NM	43073
880-23147-9	CS-9	Total/NA	Solid	8015B NM	43073
880-23147-10	CS-10	Total/NA	Solid	8015B NM	43073
880-23147-11	CS-11	Total/NA	Solid	8015B NM	43073
880-23147-12	CS-12	Total/NA	Solid	8015B NM	43073
880-23147-13	CS-13	Total/NA	Solid	8015B NM	43073
880-23147-14	CS-14	Total/NA	Solid	8015B NM	43073
880-23147-15	CS-15	Total/NA	Solid	8015B NM	43073
880-23147-16	CS-16	Total/NA	Solid	8015B NM	43073
880-23147-17	CS-17	Total/NA	Solid	8015B NM	43073
880-23147-18	CS-18	Total/NA	Solid	8015B NM	43073
880-23147-19	CS-19	Total/NA	Solid	8015B NM	43073
880-23147-20	CS-20	Total/NA	Solid	8015B NM	43073
MB 880-43073/1-A	Method Blank	Total/NA	Solid	8015B NM	43073
LCS 880-43073/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43073
LCSD 880-43073/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43073
880-23147-2 MS	CS-2	Total/NA	Solid	8015B NM	43073
880-23147-2 MSD	CS-2	Total/NA	Solid	8015B NM	43073

Analysis Batch: 43031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-21	CS-21	Total/NA	Solid	8015B NM	43074
880-23147-22	CS-22	Total/NA	Solid	8015B NM	43074
880-23147-23	CS-23	Total/NA	Solid	8015B NM	43074
880-23147-24	CS-24	Total/NA	Solid	8015B NM	43074
880-23147-25	CS-25	Total/NA	Solid	8015B NM	43074
880-23147-26	CS-26	Total/NA	Solid	8015B NM	43074
880-23147-27	CS-27	Total/NA	Solid	8015B NM	43074
880-23147-28	CS-28	Total/NA	Solid	8015B NM	43074
880-23147-29	CS-29	Total/NA	Solid	8015B NM	43074
880-23147-30	CS-30	Total/NA	Solid	8015B NM	43074
880-23147-31	CS-31	Total/NA	Solid	8015B NM	43074
MB 880-43074/1-A	Method Blank	Total/NA	Solid	8015B NM	43074
LCS 880-43074/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43074
LCSD 880-43074/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43074
880-23147-26 MS	CS-26	Total/NA	Solid	8015B NM	43074
880-23147-26 MSD	CS-26	Total/NA	Solid	8015B NM	43074

Prep Batch: 43073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep	Batch
880-23147-1	CS-1	Total/NA	Solid	8015NM Prep	
880-23147-2	CS-2	Total/NA	Solid	8015NM Prep	
880-23147-3	CS-3	Total/NA	Solid	8015NM Prep	
880-23147-4	CS-4	Total/NA	Solid	8015NM Prep	

Eurofins Midland

Page 27 of 46

Released to Imaging: 4/24/2023 11:17:12 AM

2

3

5

9

11

13

1.4

Client: Lighthouse Environmental Services, Inc
Project/Site: Montera 6" Release

Job ID: 880-23147-1
SDG: 2125-5742

GC Semi VOA (Continued)

Prep Batch: 43073 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-5	CS-5	Total/NA	Solid	8015NM Prep	
880-23147-6	CS-6	Total/NA	Solid	8015NM Prep	
880-23147-7	CS-7	Total/NA	Solid	8015NM Prep	
880-23147-8	CS-8	Total/NA	Solid	8015NM Prep	
880-23147-9	CS-9	Total/NA	Solid	8015NM Prep	
880-23147-10	CS-10	Total/NA	Solid	8015NM Prep	
880-23147-11	CS-11	Total/NA	Solid	8015NM Prep	
880-23147-12	CS-12	Total/NA	Solid	8015NM Prep	
880-23147-13	CS-13	Total/NA	Solid	8015NM Prep	
880-23147-14	CS-14	Total/NA	Solid	8015NM Prep	
880-23147-15	CS-15	Total/NA	Solid	8015NM Prep	
880-23147-16	CS-16	Total/NA	Solid	8015NM Prep	
880-23147-17	CS-17	Total/NA	Solid	8015NM Prep	
880-23147-18	CS-18	Total/NA	Solid	8015NM Prep	
880-23147-19	CS-19	Total/NA	Solid	8015NM Prep	
880-23147-20	CS-20	Total/NA	Solid	8015NM Prep	
MB 880-43073/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43073/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43073/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23147-2 MS	CS-2	Total/NA	Solid	8015NM Prep	
880-23147-2 MSD	CS-2	Total/NA	Solid	8015NM Prep	

Prep Batch: 43074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-21	CS-21	Total/NA	Solid	8015NM Prep	
880-23147-22	CS-22	Total/NA	Solid	8015NM Prep	
880-23147-23	CS-23	Total/NA	Solid	8015NM Prep	
880-23147-24	CS-24	Total/NA	Solid	8015NM Prep	
880-23147-25	CS-25	Total/NA	Solid	8015NM Prep	
880-23147-26	CS-26	Total/NA	Solid	8015NM Prep	
880-23147-27	CS-27	Total/NA	Solid	8015NM Prep	
880-23147-28	CS-28	Total/NA	Solid	8015NM Prep	
880-23147-29	CS-29	Total/NA	Solid	8015NM Prep	
880-23147-30	CS-30	Total/NA	Solid	8015NM Prep	
880-23147-31	CS-31	Total/NA	Solid	8015NM Prep	
MB 880-43074/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43074/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43074/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23147-26 MS	CS-26	Total/NA	Solid	8015NM Prep	
880-23147-26 MSD	CS-26	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-1	CS-1	Total/NA	Solid	8015 NM	 ;
880-23147-2	CS-2	Total/NA	Solid	8015 NM	
880-23147-3	CS-3	Total/NA	Solid	8015 NM	
880-23147-4	CS-4	Total/NA	Solid	8015 NM	
880-23147-5	CS-5	Total/NA	Solid	8015 NM	
880-23147-6	CS-6	Total/NA	Solid	8015 NM	
880-23147-7	CS-7	Total/NA	Solid	8015 NM	
880-23147-8	CS-8	Total/NA	Solid	8015 NM	

Eurofins Midland

Page 28 of 46

Client: Lighthouse Environmental Services, Inc Job ID: 880-23147-1 Project/Site: Montera 6" Release SDG: 2125-5742

GC Semi VOA (Continued)

Analysis Batch: 43157 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-9	CS-9	Total/NA	Solid	8015 NM	_
880-23147-10	CS-10	Total/NA	Solid	8015 NM	
880-23147-11	CS-11	CS-11 Total/NA		8015 NM	
880-23147-12	CS-12	Total/NA	Solid	8015 NM	
880-23147-13	CS-13	Total/NA	Solid	8015 NM	
880-23147-14	CS-14	Total/NA	Solid	8015 NM	
880-23147-15	CS-15	Total/NA	Solid	8015 NM	
880-23147-16	CS-16	Total/NA	Solid	8015 NM	
880-23147-17	CS-17	Total/NA	Solid	8015 NM	
880-23147-18	CS-18	Total/NA	Solid	8015 NM	
880-23147-19	CS-19	Total/NA	Solid	8015 NM	
880-23147-20	CS-20	Total/NA	Solid	8015 NM	
880-23147-21	CS-21	Total/NA	Solid	8015 NM	
880-23147-22	CS-22	Total/NA	Solid	8015 NM	
880-23147-23	CS-23	Total/NA	Solid	8015 NM	
880-23147-24	CS-24	Total/NA	Solid	8015 NM	
880-23147-25	CS-25	Total/NA	Solid	8015 NM	
880-23147-26	CS-26	Total/NA	Solid	8015 NM	
880-23147-27	CS-27	Total/NA	Solid	8015 NM	
880-23147-28	CS-28	Total/NA	Solid	8015 NM	
880-23147-29	CS-29	Total/NA	Solid	8015 NM	
880-23147-30	CS-30	Total/NA	Solid	8015 NM	
880-23147-31	CS-31	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 42868

Lab Sample ID 880-23147-31	Client Sample ID	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-42868/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42868/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42868/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 42887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-21	CS-21	Soluble	Solid	DI Leach	
880-23147-22	CS-22	Soluble	Solid	DI Leach	
880-23147-23	CS-23	Soluble	Solid	DI Leach	
880-23147-24	CS-24	Soluble	Solid	DI Leach	
880-23147-25	CS-25	Soluble	Solid	DI Leach	
880-23147-26	CS-26	Soluble	Solid	DI Leach	
880-23147-27	CS-27	Soluble	Solid	DI Leach	
880-23147-28	CS-28	Soluble	Solid	DI Leach	
880-23147-29	CS-29	Soluble	Solid	DI Leach	
880-23147-30	CS-30	Soluble	Solid	DI Leach	
MB 880-42887/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42887/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42887/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23147-21 MS	CS-21	Soluble	Solid	DI Leach	
880-23147-21 MSD	CS-21	Soluble	Solid	DI Leach	

Client: Lighthouse Environmental Services, Inc
Project/Site: Montera 6" Release

Job ID: 880-23147-1
SDG: 2125-5742

HPLC/IC

Leach Batch: 42888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-1	CS-1	Soluble	Solid	DI Leach	
880-23147-2	CS-2	Soluble	Solid	DI Leach	
880-23147-3	CS-3	Soluble	Solid	DI Leach	
880-23147-4	CS-4	Soluble	Solid	DI Leach	
880-23147-5	CS-5	Soluble	Solid	DI Leach	
880-23147-6	CS-6	Soluble	Solid	DI Leach	
880-23147-7	CS-7	Soluble	Solid	DI Leach	
880-23147-8	CS-8	Soluble	Solid	DI Leach	
880-23147-9	CS-9	Soluble	Solid	DI Leach	
880-23147-10	CS-10	Soluble	Solid	DI Leach	
880-23147-11	CS-11	Soluble	Solid	DI Leach	
880-23147-12	CS-12	Soluble	Solid	DI Leach	
880-23147-13	CS-13	Soluble	Solid	DI Leach	
880-23147-14	CS-14	Soluble	Solid	DI Leach	
880-23147-15	CS-15	Soluble	Solid	DI Leach	
880-23147-16	CS-16	Soluble	Solid	DI Leach	
880-23147-17	CS-17	Soluble	Solid	DI Leach	
880-23147-18	CS-18	Soluble	Solid	DI Leach	
880-23147-19	CS-19	Soluble	Solid	DI Leach	
880-23147-20	CS-20	Soluble	Solid	DI Leach	
MB 880-42888/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-42888/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-42888/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-23147-1 MS	CS-1	Soluble	Solid	DI Leach	
880-23147-1 MSD	CS-1	Soluble	Solid	DI Leach	
880-23147-11 MS	CS-11	Soluble	Solid	DI Leach	
880-23147-11 MSD	CS-11	Soluble	Solid	DI Leach	

Analysis Batch: 42948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-31	CS-31	Soluble	Solid	300.0	42868
MB 880-42868/1-A	Method Blank	Soluble	Solid	300.0	42868
LCS 880-42868/2-A	Lab Control Sample	Soluble	Solid	300.0	42868
LCSD 880-42868/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42868

Analysis Batch: 42998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-21	CS-21	Soluble	Solid	300.0	42887
880-23147-22	CS-22	Soluble	Solid	300.0	42887
880-23147-23	CS-23	Soluble	Solid	300.0	42887
880-23147-24	CS-24	Soluble	Solid	300.0	42887
880-23147-25	CS-25	Soluble	Solid	300.0	42887
880-23147-26	CS-26	Soluble	Solid	300.0	42887
880-23147-27	CS-27	Soluble	Solid	300.0	42887
880-23147-28	CS-28	Soluble	Solid	300.0	42887
880-23147-29	CS-29	Soluble	Solid	300.0	42887
880-23147-30	CS-30	Soluble	Solid	300.0	42887
MB 880-42887/1-A	Method Blank	Soluble	Solid	300.0	42887
LCS 880-42887/2-A	Lab Control Sample	Soluble	Solid	300.0	42887
LCSD 880-42887/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42887
880-23147-21 MS	CS-21	Soluble	Solid	300.0	42887

Eurofins Midland

3

4

b

10

12

13

Client: Lighthouse Environmental Services, Inc

Job ID: 880-23147-1 Project/Site: Montera 6" Release SDG: 2125-5742

HPLC/IC (Continued)

Analysis Batch: 42998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-21 MSD	CS-21	Soluble	Solid	300.0	42887

Analysis Batch: 42999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23147-1	CS-1	Soluble	Solid	300.0	42888
880-23147-2	CS-2	Soluble	Solid	300.0	42888
880-23147-3	CS-3	Soluble	Solid	300.0	42888
880-23147-4	CS-4	Soluble	Solid	300.0	42888
880-23147-5	CS-5	Soluble	Solid	300.0	42888
880-23147-6	CS-6	Soluble	Solid	300.0	42888
880-23147-7	CS-7	Soluble	Solid	300.0	42888
880-23147-8	CS-8	Soluble	Solid	300.0	42888
880-23147-9	CS-9	Soluble	Solid	300.0	42888
880-23147-10	CS-10	Soluble	Solid	300.0	42888
880-23147-11	CS-11	Soluble	Solid	300.0	42888
880-23147-12	CS-12	Soluble	Solid	300.0	42888
880-23147-13	CS-13	Soluble	Solid	300.0	42888
880-23147-14	CS-14	Soluble	Solid	300.0	42888
880-23147-15	CS-15	Soluble	Solid	300.0	42888
880-23147-16	CS-16	Soluble	Solid	300.0	42888
880-23147-17	CS-17	Soluble	Solid	300.0	42888
880-23147-18	CS-18	Soluble	Solid	300.0	42888
880-23147-19	CS-19	Soluble	Solid	300.0	42888
880-23147-20	CS-20	Soluble	Solid	300.0	42888
MB 880-42888/1-A	Method Blank	Soluble	Solid	300.0	42888
LCS 880-42888/2-A	Lab Control Sample	Soluble	Solid	300.0	42888
LCSD 880-42888/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	42888
880-23147-1 MS	CS-1	Soluble	Solid	300.0	42888
880-23147-1 MSD	CS-1	Soluble	Solid	300.0	42888
880-23147-11 MS	CS-11	Soluble	Solid	300.0	42888
880-23147-11 MSD	CS-11	Soluble	Solid	300.0	42888

Job ID: 880-23147-1

SDG: 2125-5742

Lab Chronicle

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Client Sample ID: CS-1 Lab Sample ID: 880-23147-1 Date Collected: 12/27/22 11:26 **Matrix: Solid**

Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 07:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 14:41	CH	EET MID

Client Sample ID: CS-2 Lab Sample ID: 880-23147-2 Date Collected: 12/27/22 11:30 **Matrix: Solid**

Date Received: 12/29/22 12:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/03/23 22:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 15:05	CH	EET MID

Lab Sample ID: 880-23147-3 Client Sample ID: CS-3 Date Collected: 12/27/22 11:35 **Matrix: Solid**

Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/03/23 23:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 15:13	CH	EET MID

Client Sample ID: CS-4 Lab Sample ID: 880-23147-4

Date Collected: 12/27/22 11:40 Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 03:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 15:21	CH	EET MID

Client Sample ID: CS-5 Lab Sample ID: 880-23147-5

Date Collected: 12/27/22 11:45 Date Received: 12/29/22 12:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID

Eurofins Midland

Matrix: Solid

Matrix: Solid

Released to Imaging: 4/24/2023 11:17:12 AM

SDG: 2125-5742

Client: Lighthouse Environmental Services, Inc Project/Site: Montera 6" Release

Client Sample ID: CS-5 Date Collected: 12/27/22 11:45 Date Received: 12/29/22 12:05 Lab Sample ID: 880-23147-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/03/23 23:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 15:29	CH	EET MID

Client Sample ID: CS-6 Lab Sample ID: 880-23147-6 Date Collected: 12/27/22 11:50 **Matrix: Solid**

Date Received: 12/29/22 12:05

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 03:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 15:52	CH	EET MID

Client Sample ID: CS-7 Lab Sample ID: 880-23147-7 **Matrix: Solid**

Date Collected: 12/27/22 11:55

Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 00:15	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 16:00	CH	EET MID

Client Sample ID: CS-8 Lab Sample ID: 880-23147-8 **Matrix: Solid**

Date Collected: 12/27/22 12:00 Date Received: 12/29/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43029	01/04/23 04:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 16:19	CH	EET MID

Client Sample ID: CS-9 Lab Sample ID: 880-23147-9

Date Collected: 12/27/22 12:05 Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Lab Sample ID: 880-23147-9

Client Sample ID: CS-9 Date Collected: 12/27/22 12:05

Analysis

300.0

Matrix: Solid

Job ID: 880-23147-1

SDG: 2125-5742

FFT MID

Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43029	01/04/23 05:05	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42888	12/29/22 12:43	KS	EET MID

Client Sample ID: CS-10 Lab Sample ID: 880-23147-10 Date Collected: 12/27/22 12:10

1

Date Received: 12/29/22 12:05

Soluble

Matrix: Solid

01/03/23 16:28 CH

42999

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 00:38	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 16:36	CH	EET MID

Client Sample ID: CS-11 Lab Sample ID: 880-23147-11

Date Collected: 12/27/22 12:15 **Matrix: Solid**

Date Received: 12/29/22 12:05

Dil Initial Final Batch Batch **Batch** Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 43157 01/04/23 11:53 SM Analysis **EET MID** Total/NA Prep 8015NM Prep 10.01 g 10 mL 43073 01/03/23 11:30 DM **EET MID** Total/NA 8015B NM 1 uL 43029 01/04/23 04:21 SM Analysis 1 uL **EET MID** 1 Soluble Leach DI Leach 5.05 g 50 mL 42888 12/29/22 12:43 KS **EET MID** Soluble Analysis 300.0 42999 01/03/23 16:44 CH **EET MID** 1

Client Sample ID: CS-12 Lab Sample ID: 880-23147-12

Date Collected: 12/27/22 12:20 Matrix: Solid Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 06:33	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 17:09	CH	EET MID

Client Sample ID: CS-13 Lab Sample ID: 880-23147-13 **Matrix: Solid**

Date Collected: 12/27/22 12:25 Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Lab Sample ID: 880-23147-13

Client Sample ID: CS-13

Date Collected: 12/27/22 12:25 Date Received: 12/29/22 12:05

Matrix: Solid

Job ID: 880-23147-1

SDG: 2125-5742

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 08:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 17:18	CH	EET MID

Client Sample ID: CS-14 Lab Sample ID: 880-23147-14 Date Collected: 12/27/22 12:30 **Matrix: Solid**

Date Received: 12/29/22 12:05

Batch Dil Batch Batch Initial Final Prepared Method **Prep Type Factor Amount** Amount Number or Analyzed Analyst Type Run Lab Total/NA Analysis 8015 NM 43157 01/04/23 11:53 SM EET MID Total/NA 43073 Prep 8015NM Prep 10.00 g 10 mL 01/03/23 11:30 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 43029 01/04/23 01:01 SM **EET MID** Soluble Leach DI Leach 4.99 g 50 mL 42888 12/29/22 12:43 KS **EET MID** Soluble Analysis 300.0 42999 01/03/23 17:43 CH **EET MID**

Client Sample ID: CS-15 Lab Sample ID: 880-23147-15 **Matrix: Solid**

Date Collected: 12/27/22 12:35

Date Received: 12/29/22 12:05

	Batch -	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43029	01/04/23 05:28	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 17:51	CH	EET MID

Lab Sample ID: 880-23147-16 Client Sample ID: CS-16

Date Collected: 12/27/22 12:40 Date Received: 12/29/22 12:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 01:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 17:59	CH	EET MID

Client Sample ID: CS-17 Lab Sample ID: 880-23147-17 **Matrix: Solid**

Date Collected: 12/27/22 12:45 Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID

Eurofins Midland

Job ID: 880-23147-1

Client: Lighthouse Environmental Services, Inc Project/Site: Montera 6" Release SDG: 2125-5742

Client Sample ID: CS-17 Lab Sample ID: 880-23147-17

Date Collected: 12/27/22 12:45 **Matrix: Solid** Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 01:46	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 18:08	CH	EET MID

Client Sample ID: CS-18 Lab Sample ID: 880-23147-18 Date Collected: 12/27/22 12:50 Matrix: Solid

Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43029	01/04/23 05:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 18:16	CH	EET MID

Client Sample ID: CS-19 Lab Sample ID: 880-23147-19 **Matrix: Solid**

Date Collected: 12/27/22 12:55

Date Received: 12/29/22 12:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43029	01/04/23 06:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 18:24	CH	EET MID

Client Sample ID: CS-20 Lab Sample ID: 880-23147-20 **Matrix: Solid**

Date Collected: 12/27/22 13:00 Date Received: 12/29/22 12:05

	Batch	Batch	D	Dil	Initial	Final	Batch	Prepared	A I 4	1 -1-
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 11:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43073	01/03/23 11:30	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43029	01/04/23 06:55	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	42888	12/29/22 12:43	KS	EET MID
Soluble	Analysis	300.0		1			42999	01/03/23 18:33	CH	EET MID

Client Sample ID: CS-21 Lab Sample ID: 880-23147-21

Date Collected: 12/27/22 13:05 Date Received: 12/29/22 12:05

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Lab Sample ID: 880-23147-21

Matrix: Solid

Job ID: 880-23147-1

SDG: 2125-5742

Client Sample ID: CS-21 Date Collected: 12/27/22 13:05 Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43031	01/04/23 04:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42887	12/29/22 12:41	KS	EET MID
Soluble	Analysis	300.0		1			42998	01/03/23 14:06	CH	EET MID

Client Sample ID: CS-22 Lab Sample ID: 880-23147-22 Date Collected: 12/27/22 13:10 **Matrix: Solid**

Date Received: 12/29/22 12:05

Batch Dil Batch Batch Initial Final Prepared Method **Prep Type Factor Amount** Amount Number or Analyzed Analyst Type Run Lab Total/NA Analysis 8015 NM 43157 01/04/23 12:42 SM EET MID Total/NA 43074 Prep 8015NM Prep 10.02 g 10 mL 01/03/23 11:37 DM **EET MID** Total/NA Analysis 8015B NM 5 1 uL 1 uL 43031 01/04/23 04:43 SM **EET MID** Soluble Leach DI Leach 4.98 g 50 mL 42887 12/29/22 12:41 KS **EET MID** Soluble Analysis 300.0 42998 01/03/23 14:20 CH **EET MID**

Client Sample ID: CS-23 Lab Sample ID: 880-23147-23 **Matrix: Solid**

Date Collected: 12/27/22 13:15

Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43031	01/04/23 05:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	42887	12/29/22 12:41	KS	EET MID
Soluble	Analysis	300.0		1			42998	01/03/23 14:25	CH	EET MID

Lab Sample ID: 880-23147-24 Client Sample ID: CS-24

Date Collected: 12/27/22 13:20 Date Received: 12/29/22 12:05

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43031	01/04/23 05:28	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42887	12/29/22 12:41	KS	EET MID
Soluble	Analysis	300.0		1			42998	01/03/23 14:39	CH	EET MID

Client Sample ID: CS-25 Lab Sample ID: 880-23147-25

Date Collected: 12/27/22 13:25 Date Received: 12/29/22 12:05

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID

Eurofins Midland

Matrix: Solid

Project/Site: Montera 6" Release

SDG: 2125-5742

Client Sample ID: CS-25

Date Collected: 12/27/22 13:25 Date Received: 12/29/22 12:05

Lab Sample ID: 880-23147-25

Matrix: Solid

Job ID: 880-23147-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	43031	01/04/23 05:50	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	42887	12/29/22 12:41	KS	EET MID
Soluble	Analysis	300.0		1			42998	01/03/23 14:44	CH	EET MID

Client Sample ID: CS-26 Lab Sample ID: 880-23147-26 Date Collected: 12/27/22 13:30 **Matrix: Solid**

Date Received: 12/29/22 12:05

Batch Dil Initial Batch Batch Final Prepared Method or Analyzed **Prep Type** Type **Factor Amount** Amount Number Analyst Run Lab Total/NA Analysis 8015 NM 43157 01/04/23 12:42 SM EET MID Total/NA 43074 Prep 8015NM Prep 10.00 g 10 mL 01/03/23 11:37 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 43031 01/03/23 22:24 SM **EET MID** 42887 Soluble Leach DI Leach 5 g 50 mL 12/29/22 12:41 KS **EET MID** Soluble Analysis 300.0 42998 01/03/23 14:48 CH 1 **EET MID**

Client Sample ID: CS-27 Lab Sample ID: 880-23147-27 **Matrix: Solid**

Date Collected: 12/27/22 13:35

Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43031	01/03/23 23:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	42887	12/29/22 12:41	KS	EET MID
Soluble	Analysis	300.0		1			42998	01/03/23 14:53	CH	EET MID

Lab Sample ID: 880-23147-28 Client Sample ID: CS-28

Date Collected: 12/27/22 13:40 Date Received: 12/29/22 12:05

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43031	01/03/23 23:52	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	42887	12/29/22 12:41	KS	EET MID
Soluble	Analysis	300.0		1			42998	01/03/23 14:58	CH	EET MID

Client Sample ID: CS-29 Lab Sample ID: 880-23147-29

Date Collected: 12/27/22 13:45 Date Received: 12/29/22 12:05

Released to Imaging: 4/24/2023 11:17:12 AM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID

Eurofins Midland

Matrix: Solid

Lab Chronicle

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Lab Sample ID: 880-23147-29

Client Sample ID: CS-29 Date Collected: 12/27/22 13:45

Date Received: 12/29/22 12:05

Matrix: Solid

Job ID: 880-23147-1

SDG: 2125-5742

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43031	01/04/23 00:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	42887	12/29/22 12:41	KS	EET MID
Soluble	Analysis	300.0		1			42998	01/03/23 15:03	CH	EET MID

Lab Sample ID: 880-23147-30

Client Sample ID: CS-30 Date Collected: 12/27/22 13:50 **Matrix: Solid**

Date Received: 12/29/22 12:05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43031	01/04/23 00:38	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	42887	12/29/22 12:41	KS	EET MID
Soluble	Analysis	300.0		1			42998	01/03/23 15:16	CH	EET MID

Lab Sample ID: 880-23147-31 **Client Sample ID: CS-31**

Date Collected: 12/27/22 13:55

Matrix: Solid

Date Received: 12/29/22 12:05

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			43157	01/04/23 12:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43074	01/03/23 11:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43031	01/04/23 01:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	42868	12/29/22 16:30	KS	EET MID
Soluble	Analysis	300.0		1			42948	12/31/22 05:12	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1 SDG: 2125-5742

Laboratory: Eurofins Midland

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

Authority Texas		rogram ELAP	Identification Number T104704400-22-25	Expiration Date 06-30-23		
The following analyte		ort, but the laboratory is n	ot certified by the governing authority.	This list may include analytes for whi		
the agency does not	oner ocranication.					
Analysis Method	Prep Method	Matrix	Analyte			

Method Summary

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1

SDG: 2125-5742

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Released to Imaging: 4/24/2023 11:17:12 AM

Sample Summary

Client: Lighthouse Environmental Services, Inc

Project/Site: Montera 6" Release

Job ID: 880-23147-1 SDG: 2125-5742

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-23147-1	CS-1	Solid	12/27/22 11:26	12/29/22 12:05	36'
880-23147-2	CS-2	Solid	12/27/22 11:30	12/29/22 12:05	24"36"
880-23147-3	CS-3	Solid	12/27/22 11:35	12/29/22 12:05	30"
880-23147-4	CS-4	Solid	12/27/22 11:40	12/29/22 12:05	30"
880-23147-5	CS-5	Solid	12/27/22 11:45	12/29/22 12:05	30"
880-23147-6	CS-6	Solid	12/27/22 11:50	12/29/22 12:05	0-6"
880-23147-7	CS-7	Solid	12/27/22 11:55	12/29/22 12:05	0-6"
880-23147-8	CS-8	Solid	12/27/22 12:00	12/29/22 12:05	36"
880-23147-9	CS-9	Solid	12/27/22 12:05	12/29/22 12:05	36"
880-23147-10	CS-10	Solid	12/27/22 12:10	12/29/22 12:05	12-14"
880-23147-11	CS-11	Solid	12/27/22 12:15	12/29/22 12:05	0-6"
880-23147-12	CS-12	Solid	12/27/22 12:20	12/29/22 12:05	6-12"
880-23147-13	CS-13	Solid	12/27/22 12:25	12/29/22 12:05	24"
880-23147-14	CS-14	Solid	12/27/22 12:30	12/29/22 12:05	5'
880-23147-15	CS-15	Solid	12/27/22 12:35	12/29/22 12:05	48"
880-23147-16	CS-16	Solid	12/27/22 12:40	12/29/22 12:05	18'
880-23147-17	CS-17	Solid	12/27/22 12:45	12/29/22 12:05	18'
880-23147-18	CS-18	Solid	12/27/22 12:50	12/29/22 12:05	18'
880-23147-19	CS-19	Solid	12/27/22 12:55	12/29/22 12:05	18'
880-23147-20	CS-20	Solid	12/27/22 13:00	12/29/22 12:05	18'
880-23147-21	CS-21	Solid	12/27/22 13:05	12/29/22 12:05	18'
880-23147-22	CS-22	Solid	12/27/22 13:10	12/29/22 12:05	18'
880-23147-23	CS-23	Solid	12/27/22 13:15	12/29/22 12:05	18'
880-23147-24	CS-24	Solid	12/27/22 13:20	12/29/22 12:05	18'
880-23147-25	CS-25	Solid	12/27/22 13:25	12/29/22 12:05	18'
880-23147-26	CS-26	Solid	12/27/22 13:30	12/29/22 12:05	17'
880-23147-27	CS-27	Solid	12/27/22 13:35	12/29/22 12:05	18'
880-23147-28	CS-28	Solid	12/27/22 13:40	12/29/22 12:05	8'
880-23147-29	CS-29	Solid	12/27/22 13:45	12/29/22 12:05	8'
880-23147-30	CS-30	Solid	12/27/22 13:50	12/29/22 12:05	0-6"

Solid

12/27/22 13:55 12/29/22 12:05 0-6"

880-23147-31

CS-31

eurofins :

Xenco

Environment Testing

13

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 Midland TX (432) 704-5440 San Antonio TX (210) 509-3334 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

TOTA CIDEL NO.	Work Order No.
	100 P

Page 1 of 3

Project Manager	Simon Hudgens	ซี			Dill to: /# diffe	70 m	Δ#5	anilla I	2				╝								1.	190	9	
	Lighthouse Environmental Services Inc	Vironme	ntal Services		Company Namo			Plain All America	oi yai it					'			Wo	Ž O	der C	Work Order Comments	ents			
	4904 Fuqua Street	reet			Address	Š	2							State of Project: NM	of Proj) PS		₹ □	Brow	nfields		ŔC	Sup	Program. UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: NM
City, State ZIP	Houston, TX 77048	7048			City. State ZIP	Ÿ		-						R P D	Reporting Level II Level III DOTALOT TODO	=		<u>₽</u> =] 00-	- -]	ב ב		-
Phone:	713-987-0400			Email.	shudgens@lighthouseenv.com, ap@lighthouseenv.com; tsawyer@lighthouseenv.com, lramitez@lighthouseenv.com immho@lighthouseenv.com	nouseenv.c	om, ap@lic	hthousee	nv.com. ts	awyer@li	ghthouse	env.com		Delive	Deliverables EDD		ے ل إ	<u> </u>				O#ber		Level IVL
Project Name:	Montera 6" release	ase			Turn Around							V010								11				
¥,	2125-5742			マ Routine	□ Buch	Pres.			1	1	2	VINAL I GIG VERGEST	200	CEO							Prese	ivati	Preservative Codes	des
	32 130205 -103 358124	2 2581	34			Code		-	-	-	+	\dagger								None NO	N _O		DI Wa	DI Water: H ₂ O
	Trev Sawver	000		TAT plate it																Cool Cool	Cool		МеОН Ме	Me
	2125-5742			the lab if rec	the lab if received by 4 30pm		es													HCL HC	S		HNO ₃ HN	볼
		212				ers	ang													H ₂ SO ₄ H ₂	± H ₂		NaOH Na	Na
OTHER NEGET	t	siank.	Yes No	/ Wet loe	(Yes) No	<u> </u>	i Ra						RO							H ₃ PO	Н₃РО, НР			
Samples Received Intact:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No.	Thermometer ID:	٩	521	ran	ded		s				, Мі	·						N HC	Σ [†]	ARIC		
Cooler Custody Seals:	Yes No	TANK Y	Correction Factor	ctor	0.5	Pa	ten		etal				RO	0						0 2	Na s O Naso			
Sample Custody Seals:	Yes	N/A	Jemperature Reading	Reading:	2		, Ex		8 M				0, 0	300						7 020	Tanada Nasus	3		
Total Containers.	31		Corrected Temperature:	nperature:	i,	<u>۳</u>	1005	EX					GR	EPA						200	NaOH+Acceptic Acid	t aoi	U. 7.	9
Sample Identification	fication	Matrix	Date Sampled	Time Sampled	Depth Grab/	mp # of	грн тх	CLP B	CLP R	TEX 80	CI	Н	PH 801	hloride							Samp	ře C	Sample Comments	nts
CS-1		Sol	12 27 22	1126	36" Grab	<u>-</u>			+	\dashv	\dashv		×	×						T				
CS-2		Soil	12 27 22	1130	24" Grab	7				+			× :	×										
CS-3		Soll	12 27 22	1135	36" Grab	_			-		1		× ;	Υ :						T				
CS-4		Soil	12 27 22	1140	30" Grab	<u>-</u>			-	-			× ;	×	4		1			T		(*	
CS-5		Soil	12 27 22	1145	30" Grab	<u>Б</u>			\dashv			1	× ;	× .	- }									
CS-6		Soll	12 27 22	1150	0-6" Grab	<u>-</u>				1		1	× :	× ?	1									
CS-7		Soil	12 27 22	1155	0-6" Grab						1		× ;	x :	1									
CS-8		Soil	12 27 22	1200	36" Grab	b _1							×	χ.	-									
CS-9		Soil	12 27 22	1205	36" Grab	<u>ь</u>				-			×	χ.	ا	880-23147 Chain of Custody	147 C	hain	of Cu	stody				
CS-10		Soil	12 27 22	1210	12-14" Grab				1	-	+	1	× :	× 3									ļ	
CS-11		Soil	12 27 22	1215	0-6" Grab					+		1	× :	× :						T				
Total 200.7 / 6010	0 200.8 / 6020:	020:	8 7	8RCRA 13PPM	M Texas 11	≥	Sb As I	Ba Be	ව ස	다 망	읽	Cu Fe	망	Ma Mn	Mo N	⊼∥	Se An	SIO.	N C	2	Z S	=	V 75	
Circle Method(s) and Metal(s) to be analyzed	d Metal(s) to bu	e analyz	zed	TCLP / SPLP 6010	PLP 6010 8	8RCRA	Sb As	As Ba Be	e Cd	Cr Co Cu Pb Mn Mo Ni Se Ag TI U	Cu P	Mn	Mo Z	Se .	Ag TI			Н _{О 1}	631 /	245 1	Hg 1631 / 245 1 / 7470 / 7471	70/7	471	
Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcon of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such of Eurofins Xenco. A minimum charge of \$88,00 will be applied to each project and a charge of \$6.00 will be applied to each project and \$6.00 will be applied to each proje	nature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcon Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such a second and the control of the control	uishment	of samples const st of samples and spalled to each o	itutes a valid pu shall not assum	rchase order fro ne any responsil	m client c bility for ar	ompany to ly losses	Eurofins or expens	Xenco, i	s affiliate	es and su	abcontrac	stractors. It assigns standard terms and conditions losses are due to circumstances beyond the control	assigns due to ci	standarı	terms	and co	ndition e contr	≗ *					
Relinquished by (Signature)	(Signature)		Received	Received by /Signature)		-	Dato Timo		-		- I I		Weilio W	De en	orced u	lless pr	Suoisi	negot	ared					
Á	\	St. Inches		SINIO		<u></u>	ال از	9	3	. Tompalania	0.00	1	(Allering)	ē		Neceived by (Signature,	Ved D	0	Jilatu	(e)	-	10	Date/Time	me
		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				- Q		1												+			
									6												+			
									-												Revise	od Date	18/25/202	Revised Date 08/25/2020 Rev 2020

eurofins :

Xenco

Environment Testing

13 14

Chain of Custody

<
Ork
Q.
der
0:

Address. Company Name: Bill to: (if different) City, State ZIP shudgens@lighthouseenv.com Midland TX (432) 704-5440 San Antonio TX (210) 509-3334 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Houston TX (281) 240-4200 Dallas TX (214) 902-0300 Plains All American Attn Camille Bryant ap@lighthouseenv.com_tsawyer@lighthouseenv.com_

Phone.

713-987-0400 Houston, TX 77048 4904 Fuqua Street

Iramirez@lighthouseenv.com, jminto@lighthouseenv.com

Deliverables EDD

ADaPT []

Other

Level IV

Reporting Level II Level III PST/UST TRRP

State of Project NM

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

www xenco com

Page

2 of

ယ

City, State ZIP

Address. Company Name Project Manager

Simon Hudgens

Lighthouse Environmental Services Inc

PO# Sampler's Name

	Relinquished by (Signature)	rostice. Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions ference. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Eurofins Xenco. But not analyzed. These terms will be enforced unless previously negotian	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	CS-22	CS-21	CS-20	CS-19	CS-18	CS-17	CS-16	CS-15	CS-14	CS-13	CS-12	Sample identification	Total Containers.	Sample Custody Seals	Cooler Custody Seals	Samples Received Intact	SAMPLE RECEIPT	**	Sampler's Name	Project Location	Project Number	Project Name:
	(Signature)	In this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions is Xenco will be liable only for the cast of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control A minimum charge of \$86.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	d Metal(s) to be	10 200.8 / 6020:					w	7	O,	O.	+	3	2	fication	31	yes No	Yes No	(Yes	Тетр В	2125-5742	Trey Sawyer	32 139295, -103 358124	2125-5742	Montera 6" release
_		or the cos owill be	analy)20:	Soil	Sol	Soil	Soil	Sol	Soil	Soil	Soil	Soil	Soil	Soil	Matrix		NA	3	₹ /	a Ņ			3 3581;		ase
LIVE	/ Røceiyed	of samples const st of samples and applied to each p	zed		12 27 22	12 27 22	12 27 22	12 27 22	12 27 22	12 27 22	12 27 22	12 27 22	12 27 22	12 27 22	12 27 22	Matrix Date Sampled	Corrected Temperature	Temperature Reading.	Correction Factor	Thermometer ID	Yes (No					
7	Receiyed by: (Signature)	itutes a valid pu shall not assur project and a ch	TCLP / SI	CRA 13PF	1310	1305	1300	1255	1250	1245	1240	1235	1230	1225	1220	Time Sampled	nperature:	Reading.	tor.	ē	Wet loe:	the lab if rec	TAT starts the	Due Date	☑ Routine	Turn
	uge)	irchase order frome any responsiing any responsiing arge of \$6 for ea	CCLP / SPLP 6010	8RCRA 13PPM Texas 11	18' Grab	48" Grab	5' Grab	24" Grab	6-12" Grab	Depth Grab/		ر از	2.10		(es No	the lab if received by 4 30pm	TAT starts the day received by		Rush	Turn Around						
		im client obility for a ch sample	8RCRA		b _1	7	2			<u>-</u>	b 1	7	b 1	5	<u>ь</u>	b/ # of np Cont	<u> </u>		Pa	ran	iete				Code	
7	Date	company ny losse: submitt	Sb /	Al Sb As				1								TPH TX	100	5, E	cten	ded	Ran	ges				
\mathcal{R}	Date/Time	to Eurofi s or exper ed to Euro	Sb As Ba Be	Ва Ве												TCLP B	ΓEΧ									
2		ns Xenco nses incu ofins Xen	Be Cd	ВС		_									_	TCLP R	CRA	8 M	etal	s 						
	Relin	, its affilia rred by ti co, but n	Cr C	င္မ		_	1	-	_		_		_		-	Total Su			······································							
	Relinquished by	xtes and : ne client i ot analyz	Cn o	S Cr Cs		-	+		-	-	\dashv	-	\dashv	-		BTEX 80	218									₽
	d by (subcontra f such ice ed. These	Pb Mn	Cu Fe		1			1						_	рН										ANALYSIS
	(Signature)	ictors. It sses are i terms w	Mo z	Pb Mg	×	×	×	×	×	×	×	×	×	×	×	TPH 801	5 GF	Ю,	DRC), MI	RO					district of the
	<u>ē</u>	assigns due to cir ill be enfo	Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	lg Mn	×	X	X	×	7	×	X	×	사	x	Υ.	Chloride	EP/	30	0 0							REQUEST
		standard cumstan orced uni	₽g TI	Mn Mo Ni K	_	-		1		_	_		_		\dashv						,					
	Receive	terms al ces beyo less prev		- K Se	1	_	+	\dashv	+	\dashv	-	\dashv	_	-	-											
	Received by (Signature)	ors. It assigns standard terms and conditions are due to circumstances beyond the contro are full be enforced unless previously negotia		₽	+	\dashv		+		1	1	-	+		\dashv	 		···········						-		
	Signat	ions introl gotiated	1631	SiO ₂ Na Sr		1	+		1	\dashv	1	1	+	1	1										_	
,	ure)		и.	a Sr TI Sn U												Sampl	NaOH+Asco	Zn Acetate+NaOH Zn	Na ₂ S ₂ O ₃ NaSO ₃	NaHSO, NARIS	H,PO, HP	H,SO, H,	HCL HC	Cool Cool	None NO	Preser
	Date/Time		0 /7471	U V Zn												Sample Comments	NaOH+Ascorbic Acid SAPC	NaOH Zn	SO,	BIS		NaOH Na	HNO, HN	MeOH Me	DI Water: H ₂ O	Preservative Codes
[m	[ng: 4/2	24/2		11	:17	7:12	<u> </u>	M				L		-L Pag	ge 44	of	46							<u> </u>	

<
2
=
_
\sim
\sim
U
-3
rde
~
<u></u>
-
_
~
N _O :
1
- 1
1
ł
ı
- 1
- 1
1
- 1
- [
ı
ı
1

Revised Date 08/25/2020 Rev 2020.2

eurofins

13 14

Xenco Environment Testing

Address. City, State ZIP

Houston, TX 77048 4904 Fuqua Street Company Name:

Simon Hudgens

Lighthouse Environmental Services,

Inc

Company Name: Bill to: (if different)

Plains All American Attn Camille Bryant

Chain of Custody

Midland TX (432) 704-5440 San Antonio TX (210) 509-3334 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Houston TX (281) 240-4200 Dallas TX (214) 902-0300

Work Order No:
www.xenco.com Page_3 of 3
omment
Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project. NM
Reporting Level II

Revised Date 08/25/2020 Rev 2020.2	Re					6			-						'	
						4	V	7	-				1		n G	
						2		720	10		X	CART!		N N		
Date/Time	Received by (Signature)	Received b	ignature)	y (Signa	Relinquished by (S	Relin	е	Date/Time			/ (Signature)	Received by.		· (Signature)	Relinquished by (Signature)	
	he control ly negotiated	ses are due to circumstances beyond the control terms will be enforced unless previously negotiated	will be enfo	These terms	t analyzed	enco, but no	urofins X	submitted to E	sample :	\$5 for each	ct and a charge o	pplied to each proje	86.00 will be a	imum charge of	of Eurofins Xenco. A minimum charge of \$56.00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed These terms will be enforced unless previously negotiat	-, r
	onditions	standard terms and co	It assigns	contractors	tes and sub	co, its affilia	ofins Xeno	mpany to Eur	client co	e order fron	s a valid purchas	f samples constitut	nquishment o ly for the cost	document and rei to will be liable or	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofine Xenco will be liable only for the cost of samples and shall not assume any responsibility for the cost of samples and shall not assume any shall not assume any shall not assume any shall not assume any shall no	
470 / 7471	31 / 245	Ag TI U	Mo Ni Se Ag	Mn Mo	Cu Pb Mn	Cd Cr Co	Ba Be C	Sb As B	8RCRA	6010 8	TCLP / SPLP 6010	ed	be analyzi	nd Metal(s) to	Circle Method(s) and Metal(s) to be analyzed	
ŝn U V Zn	ıg SıO₂ Na Sr Ti Sn U	Mn Mo Ni K Se Ag	ĕ	ı Fe Pb	r Co Cu	Cd Ca Cr	Be B (Sb As Ba	≥	Texas 11	13PPM	8RCI	6020:	10 200.8 / 6020:	Total 200.7 / 6010	
											11 1					
			>	 					+		+					
			+					1	\dashv	1	-	12 27 22	Soil	<u> </u>	CS-31	
			x >	× ;			1		_		1350 0-6"	12 27 22	Soil	Ö	CS-30	
			\dashv	×						Grab	1345 8'	12 27 22	Soil	9	CS-29	-
			×	×					_	Grab	1340 8'	12 27 22	Soil	8	CS-28	_
				×						" Grab	1335 18'	12 27 22	Soil	7	CS-27	-
			×	×					_	" Grab	1330 17	12 27 22	Soil	6	CS-26	
			×	×						" Grab	1325 18'	12 27 22	Soil	5	CS-25	_
			- !	×					_	" Grab	1320 18'	12 27 22	Soil	4	CS-24	
			-	×					_	3' Grab	1315 18	12 27 22	Soil	3	CS-23	
Sample Comments	Sam		Chlor	pH TPH 8	RCI	Total	TCLF	TPH TCLF	Cont		Sampled Depth	Ā	Matrix	tification	Sample Identification	
				B01:			R		4	Grab/	4					
NaOH+Ascorbic Acid SAPC	NaOH+Asi			5 GF			CRA			2.3	rature:	Corrected Temperature	31		Total Containers.	
P+NoOH 75	Zn Acetate			 RO. I			8 M	5, E>	1	ė	ding:	N/A Temperature Reading:	30 NIA	Yes	Sample Custody Seals:	
NaSO,	Na ₂ S ₂ O ₃ NaSO ₃			DRC			etal	cten	Pa	3	9	Correction Factor	NO NIA	Yes	Cooler Custody Seals	
NARIS	NaHSO, NARIS			. MF			s	ded	ram	2		Thermometer ID	<i>y</i>	$\overline{}$	Samples Received Intact:	
	H.POG.H.			 RO				Ran	ete	Yes No	/wetloe: G	Yes (No)	Lengo Blank:		SAMPLE RECEIPT	
Nia Oil Nia	H,S0, H,							ges	rs	by 4 30pm	the lab if received by 4 30pm	\ 		2125-5742	PO#	
	HCI HC									received by	TAT starts the day received by			Trey Sawyer	Sampler's Name:	
	Cool Cool										Due Date		103 35812	32 139295 -103 358124	Project Location.	_
DI Water: H ₂ O	None NO								Code	Rush	☑ Routine ☐ I	Q		2125-5742	Project Number	
Preservative Codes	Pres		REQUEST	ANALYSIS RE	ANAL				<u> </u>	Lmd.	Turn Around		elease	Montera 6" release	Project Name:	
Other	ADaPT 🗆 (ables EDD	Deliverables	V.COIII.	Himonocali	om	ouseenv co	lramirez@lighthouseenv.com; iminto@lighthouseenv.com	eenv.com	z@lighthous	Email. tramire			/13-98/-0400	Phone.	
IRRP Level IVL	Reporting Level III Level III L PSI/USI L IRRP L Level IVL	ing Level II ∐Leve	Report	COM	inhthousean	n tsawver@	iseenv cor	shudgens@lighthouseenv.com.ap@lighthouseenv.com.tsawwar@lighthouseenv.com	useenv co	ens@lightho				740 007 040	1	
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			0000							아마 기민	₹ 2		77048	Houston, TX 77048	City, State ZIP	_

Login Sample Receipt Checklist

Client: Lighthouse Environmental Services, Inc

Job Number: 880-23147-1

SDG Number: 2125-5742

Login Number: 23147 List Source: Eurofins Midland

List Number: 1

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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 <6mm (1/4").	N/A	

0 UJ 112

__

5

6

8

10

12

10

14

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Simon Hudgens Lighthouse Environmental Services, Inc 4218 Pasadena Blvd Pasadena, Texas 77503

Generated 1/17/2023 10:55:34 AM

JOB DESCRIPTION

2125-5742 Montera 6' Release SDG NUMBER 32.139295, -103.358124

JOB NUMBER

880-23613-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 1/17/2023 10:55:34 AM

Authorized for release by Holly Taylor, Project Manager Holly.Taylor@et.eurofinsus.com (806)794-1296

12

14

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release Laboratory Job ID: 880-23613-1 SDG: 32.139295, -103.358124

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receint Checklists	28

3

4

6

8

10

12

13

14

Definitions/Glossary

Client: Lighthouse Environmental Services, Inc

Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

2

Qualifiers

GC VOA Qualifier

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

5

GC Semi VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Description

U Indicates the analyte 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

Case Narrative

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

Job ID: 880-23613-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-23613-1

Receipt

The samples were received on 1/11/2023 3:35 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 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1 (880-23613-1), SW-2 (880-23613-2), SW-3 (880-23613-3), SW-4 (880-23613-4), SW-5 (880-23613-5), SW-6 (880-23613-6), SW-7 (880-23613-7) and SW-8 (880-23613-8).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-2 (880-23613-2) and SW-4 (880-23613-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43837 and analytical batch 880-43854 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-43837/2-A), (LCSD 880-43837/3-A) and (MB 880-43837/1-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

Lab Sample ID: 880-23613-1

Matrix: Solid

Client Sample ID: SW-1 Date Collected: 01/10/23 11:20

Date Received: 01/11/23 15:35

Sample Depth: 10'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/12/23 14:52	01/14/23 01:11	
Toluene	0.0135		0.00201	mg/Kg		01/12/23 14:52	01/14/23 01:11	,
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/12/23 14:52	01/14/23 01:11	
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		01/12/23 14:52	01/14/23 01:11	1
o-Xylene	0.0199		0.00201	mg/Kg		01/12/23 14:52	01/14/23 01:11	
Xylenes, Total	0.0199		0.00402	mg/Kg		01/12/23 14:52	01/14/23 01:11	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130			01/12/23 14:52	01/14/23 01:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130			01/12/23 14:52	01/14/23 01:11	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0334		0.00402	mg/Kg			01/16/23 16:54	
: Method: SW846 8015 NM - Diese			GC)					
			GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier			<u>D</u>	Prepared	Analyzed 01/16/23 16:35	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit	<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier Unics (DRO)	RL 49.9 (GC)	Unit mg/Kg		<u> </u>	01/16/23 16:35	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	(GC) RL RL RL	Unit mg/Kg	<u>D</u>	Prepared	01/16/23 16:35 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO)	RL 49.9 (GC)	Unit mg/Kg		<u> </u>	01/16/23 16:35	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U F1 F2	(GC) RL RL RL	Unit mg/Kg Unit mg/Kg		Prepared 01/12/23 15:11	01/16/23 16:35 Analyzed 01/13/23 20:57	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U F1 F2	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg		Prepared	01/16/23 16:35 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U F1 F2	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 01/12/23 15:11	01/16/23 16:35 Analyzed 01/13/23 20:57	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U F1 F2 U	(GC) RL 49.9 (GC) RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/23 15:11 01/12/23 15:11	01/16/23 16:35 Analyzed 01/13/23 20:57 01/13/23 20:57	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U F1 F2 U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/23 15:11 01/12/23 15:11 01/12/23 15:11	01/16/23 16:35 Analyzed 01/13/23 20:57 01/13/23 20:57 01/13/23 20:57	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U F1 F2 U	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/23 15:11 01/12/23 15:11 01/12/23 15:11 Prepared	01/16/23 16:35 Analyzed 01/13/23 20:57 01/13/23 20:57 01/13/23 20:57 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result <49.9	Qualifier U nics (DRO) Qualifier U F1 F2 U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/23 15:11 01/12/23 15:11 01/12/23 15:11 Prepared 01/12/23 15:11	01/16/23 16:35 Analyzed 01/13/23 20:57 01/13/23 20:57 Analyzed 01/13/23 20:57	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result <49.9	Qualifier U nics (DRO) Qualifier U F1 F2 U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 01/12/23 15:11 01/12/23 15:11 01/12/23 15:11 Prepared 01/12/23 15:11	01/16/23 16:35 Analyzed 01/13/23 20:57 01/13/23 20:57 Analyzed 01/13/23 20:57	Dil Fac

Client Sample ID: SW-2 Lab Sample ID: 880-23613-2

Date Collected: 01/10/23 11:15 Date Received: 01/11/23 15:35

Sample Depth: 10'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.469		0.0998	mg/Kg		01/12/23 14:52	01/14/23 01:32	50
Toluene	6.62		0.0998	mg/Kg		01/12/23 14:52	01/14/23 01:32	50
Ethylbenzene	4.00		0.0998	mg/Kg		01/12/23 14:52	01/14/23 01:32	50
m,p-Xylenes	9.11		0.200	mg/Kg		01/12/23 14:52	01/14/23 01:32	50
o-Xylene	4.37		0.0998	mg/Kg		01/12/23 14:52	01/14/23 01:32	50
Xylenes, Total	13.5		0.200	mg/Kg		01/12/23 14:52	01/14/23 01:32	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130			01/12/23 14:52	01/14/23 01:32	50

Eurofins Midland

Matrix: Solid

Client Sample Results

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1 SDG: 32.139295, -103.358124

Client Sample ID: SW-2

Date Collected: 01/10/23 11:15 Date Received: 01/11/23 15:35

Sample Depth: 10'

Lab Sample ID: 880-23613-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 01/12/23 14:52 1,4-Difluorobenzene (Surr) 109 01/14/23 01:32 50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared 0.200 01/16/23 16:54 **Total BTEX** 24.6 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL Unit D Prepared Analyzed Dil Fac **Total TPH** 7230 49.8 mg/Kg 01/16/23 16:35

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 01/13/23 22:04 **Gasoline Range Organics** 1540 49.8 mg/Kg 01/12/23 15:11 (GRO)-C6-C10 **Diesel Range Organics (Over** 49.8 mg/Kg 01/12/23 15:11 01/13/23 22:04 5690 C10-C28) OII Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 01/12/23 15:11 01/13/23 22:04

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane (Surr) 143 S1+ 70 - 130 01/12/23 15:11 01/13/23 22:04 o-Terphenyl (Surr) 01/13/23 22:04 161 S1+ 70 - 130 01/12/23 15:11

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 4.97 01/16/23 22:09 Chloride 45.8 mg/Kg

Client Sample ID: SW-3 Lab Sample ID: 880-23613-3

Date Collected: 01/10/23 11:10

Date Received: 01/11/23 15:35

Sample Depth: 12'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00199 0.00199 mg/Kg 01/12/23 14:52 01/14/23 02:55 0.00199 01/12/23 14:52 01/14/23 02:55 0.00521 mg/Kg **Toluene** 0.00199 01/12/23 14:52 01/14/23 02:55 Ethylbenzene 0.00354 mg/Kg 01/14/23 02:55 0.00398 01/12/23 14:52 0.00850 mg/Kg m,p-Xylenes o-Xylene 0.00277 0.00199 mg/Kg 01/12/23 14:52 01/14/23 02:55 0.00398 mg/Kg 01/12/23 14:52 01/14/23 02:55 **Xylenes, Total** 0.0113

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 86 70 - 130 01/12/23 14:52 4-Bromofluorobenzene (Surr) 01/14/23 02:55 1,4-Difluorobenzene (Surr) 70 70 - 130 01/12/23 14:52 01/14/23 02:55

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL D Unit Prepared Analyzed Dil Fac 0.00398 01/16/23 16:54 **Total BTEX** 0.0200 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 mg/Kg 01/16/23 16:35

Eurofins Midland

Matrix: Solid

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1 SDG: 32.139295, -103.358124

Client Sample ID: SW-3

Date Collected: 01/10/23 11:10 Date Received: 01/11/23 15:35

Sample Depth: 12'

Lab	Sample	ID:	880-236	13-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		01/12/23 15:11	01/13/23 22:48	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/12/23 15:11	01/13/23 22:48	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/12/23 15:11	01/13/23 22:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			01/12/23 15:11	01/13/23 22:48	1
o-Terphenyl (Surr)	104		70 - 130			01/12/23 15:11	01/13/23 22:48	1
- Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-4 Lab Sample ID: 880-23613-4 Date Collected: 01/10/23 11:05 **Matrix: Solid**

Date Received: 01/11/23 15:35

Sample Depth: 12'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:52	01/14/23 03:16	1
Toluene	0.0108		0.00199	mg/Kg		01/12/23 14:52	01/14/23 03:16	1
Ethylbenzene	0.00244		0.00199	mg/Kg		01/12/23 14:52	01/14/23 03:16	1
m,p-Xylenes	0.00609		0.00398	mg/Kg		01/12/23 14:52	01/14/23 03:16	1
o-Xylene	0.00216		0.00199	mg/Kg		01/12/23 14:52	01/14/23 03:16	1
Xylenes, Total	0.00825		0.00398	mg/Kg		01/12/23 14:52	01/14/23 03:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			01/12/23 14:52	01/14/23 03:16	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130			01/12/23 14:52	01/14/23 03:16	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0215		0.00398	mg/Kg			01/16/23 16:54	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2550		49.8	mg/Kg			01/16/23 16:35	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/12/23 15:11	01/13/23 22:26	1
Diesel Range Organics (Over C10-C28)	2550		49.8	mg/Kg		01/12/23 15:11	01/13/23 22:26	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/12/23 15:11	01/13/23 22:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)			70 - 130			01/12/23 15:11	01/13/23 22:26	1

Client Sample Results

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release Job ID: 880-23613-1 SDG: 32.139295, -103.358124

Client Sample ID: SW-4

Date Collected: 01/10/23 11:05 Date Received: 01/11/23 15:35

Sample Depth: 12'

Lab Sample ID: 880-23613-4

Matrix: Solid

Method: MCAWW 300.0 - Anions	, Ion Chromatog	raphy - Solι	ıble					
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.5		5.00	mg/Kg			01/16/23 22:34	1

Client Sample ID: SW-5

Date Collected: 01/10/23 11:00

Lab Sample ID: 880-23613-5

Matrix: Solid

Date Collected: 01/10/23 11:00 Date Received: 01/11/23 15:35

Sample Depth: 13'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/12/23 14:52	01/14/23 03:36	
Toluene	<0.00201	U	0.00201	mg/Kg		01/12/23 14:52	01/14/23 03:36	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/12/23 14:52	01/14/23 03:36	
m,p-Xylenes	<0.00402	U	0.00402	mg/Kg		01/12/23 14:52	01/14/23 03:36	
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/12/23 14:52	01/14/23 03:36	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/12/23 14:52	01/14/23 03:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	77		70 - 130			01/12/23 14:52	01/14/23 03:36	
1,4-Difluorobenzene (Surr)	78		70 - 130			01/12/23 14:52	01/14/23 03:36	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg	<u>D</u>	Prepared	Analyzed 01/16/23 16:54	
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00402 el Range Organ Result	ics (DRO) (Qualifier	0.00402 GC)	mg/Kg	<u>D</u>	Prepared Prepared	01/16/23 16:54 Analyzed	
Total BTEX Method: SW846 8015 NM - Diese	<0.00402	ics (DRO) (Qualifier	0.00402 GC)	mg/Kg			01/16/23 16:54	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00402 el Range Organ Result <49.9	Uics (DRO) (Gualifier	0.00402 GC) RL 49.9	mg/Kg			01/16/23 16:54 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00402 el Range Organ Result <49.9 sel Range Orga	Uics (DRO) (Gualifier	0.00402 GC) RL 49.9	mg/Kg			01/16/23 16:54 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00402 el Range Organ Result <49.9 sel Range Orga	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00402 GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	01/16/23 16:54 Analyzed 01/16/23 16:35	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00402 el Range Organ Result <49.9 sel Range Orga Result	ics (DRO) (Oualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U	0.00402 GC) RL 49.9 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	01/16/23 16:54 Analyzed 01/16/23 16:35 Analyzed	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00402 el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	ics (DRO) (Outline DRO) Qualifier U nics (DRO) Qualifier U	0.00402 GC) RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 01/12/23 15:11	01/16/23 16:54 Analyzed 01/16/23 16:35 Analyzed 01/13/23 23:09	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00402 el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	ics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Unic	0.00402 RL 49.9 (GC) RL 49.9 49.9	unit mg/Kg Unit mg/Kg unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 01/12/23 15:11 01/12/23 15:11	O1/16/23 16:54 Analyzed O1/16/23 16:35 Analyzed O1/13/23 23:09 O1/13/23 23:09	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00402 el Range Organ Result <49.9 Sel Range Orga Result <49.9 <49.9 <49.9	ics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier U	0.00402 RL 49.9 (GC) RL 49.9 49.9 49.9	unit mg/Kg Unit mg/Kg unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 01/12/23 15:11 01/12/23 15:11	O1/16/23 16:54 Analyzed O1/16/23 16:35 Analyzed O1/13/23 23:09 O1/13/23 23:09 O1/13/23 23:09	Dil Fac

Eurofins Midland

RL

4.98

Unit

mg/Kg

D

Prepared

Result Qualifier

114

Dil Fac

Analyzed 01/16/23 22:40

Analyte

Chloride

Matrix: Solid

Client Sample Results

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

01/16/23 16:54

Lab Sample ID: 880-23613-6

Client Sample ID: SW-6

Date Collected: 01/10/23 10:55 Date Received: 01/11/23 15:35

Sample Depth: 13'

Total BTEX

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/12/23 14:52	01/14/23 03:57	1
Toluene	0.00253		0.00200	mg/Kg		01/12/23 14:52	01/14/23 03:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/12/23 14:52	01/14/23 03:57	1
m,p-Xylenes	0.00408		0.00401	mg/Kg		01/12/23 14:52	01/14/23 03:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/12/23 14:52	01/14/23 03:57	1
Xylenes, Total	0.00408		0.00401	mg/Kg		01/12/23 14:52	01/14/23 03:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			01/12/23 14:52	01/14/23 03:57	1
1,4-Difluorobenzene (Surr)	72		70 - 130			01/12/23 14:52	01/14/23 03:57	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Method: SW846 8015 NM - Diesel F	Range Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			01/16/23 16:35	1

0.00401

mg/Kg

0.00661

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 23:31	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 23:31	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130			01/12/23 15:11	01/13/23 23:31	1
o-Terphenyl (Surr)	98		70 - 130			01/12/23 15:11	01/13/23 23:31	1

Method: MCAWW 300.0 - Anions, lo	on Chromatography	y - Soluble					
Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.4	4.97	mg/Kg			01/16/23 22:46	1

Client Sample ID: SW-7 Lab Sample ID: 880-23613-7

Date Collected: 01/10/23 11:25 Date Received: 01/11/23 15:35

Sample Depth: 11'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:52	01/14/23 04:17	1
Toluene	0.00422		0.00199	mg/Kg		01/12/23 14:52	01/14/23 04:17	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:52	01/14/23 04:17	1
m,p-Xylenes	0.00417		0.00398	mg/Kg		01/12/23 14:52	01/14/23 04:17	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:52	01/14/23 04:17	1
Xylenes, Total	0.00417		0.00398	mg/Kg		01/12/23 14:52	01/14/23 04:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			01/12/23 14:52	01/14/23 04:17	

Eurofins Midland

Matrix: Solid

Client Sample Results

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

Lab Sample ID: 880-23613-7

Matrix: Solid

Client Sample ID: SW-7

Date Collected: 01/10/23 11:25 Date Received: 01/11/23 15:35

Sample Depth: 11'

Method: SW846 8021B - Volatile Organic	Compounds (GC) (Continued)
--	----------------------------

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	77	70 - 130	01/12/23 14:52	01/14/23 04:17	1

Mothod: TAL SOP	Total BTEX - Total BTEX Calculation
Method. IAL JOI	Total BIEX - Total BIEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00839		0.00398	mg/Kg		_	01/16/23 16:54	1

П	Method: SW846 8015 NM - Diesel Rang	o Organico (F	\mathbf{N}	(1)
	Melijua. 344040 od i 3 Mili - Djesej Kaliy	e Organics (L	טו וטאי	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/16/23 16:35	1

Method: SW846 8015B	NM - Diesel Range	Organics (DRO) (G	C)
Michiga. Offoto ou lob	THIN - Dicaci Italige	organics (bito) (c	, – ,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 23:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 23:52	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 23:52	1
Surrogate	%Recovery	Qualifier	l imits			Prenared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115	70 - 130	01/12/23 15:11	01/13/23 23:52	1
o-Terphenyl (Surr)	102	70 - 130	01/12/23 15:11	01/13/23 23:52	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.8		5.02	mg/Kg			01/16/23 22:52	1

Client Sample ID: SW-8 Lab Sample ID: 880-23613-8 Matrix: Solid

Date Collected: 01/10/23 11:30 Date Received: 01/11/23 15:35

Sample Depth: 11'

Method: SW846	S 2021R - Volatile	Organic (Compounds	(CC)

method. 344040 002 rb - volatile Organic Compounds (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:52	01/14/23 04:38	1
Toluene	0.00446		0.00199	mg/Kg		01/12/23 14:52	01/14/23 04:38	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/12/23 14:52	01/14/23 04:38	1
m,p-Xylenes	0.00467		0.00398	mg/Kg		01/12/23 14:52	01/14/23 04:38	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/12/23 14:52	01/14/23 04:38	1
Xylenes, Total	0.00467		0.00398	mg/Kg		01/12/23 14:52	01/14/23 04:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130			01/12/23 14:52	01/14/23 04:38	1

Surrogate	%Recovery Q	ualitier Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	01/12/23 14:52	01/14/23 04:38	1
1,4-Difluorobenzene (Surr)	98	70 - 130	01/12/23 14:52	01/14/23 04:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00913	0.00398	mg/Kg			01/16/23 16:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/16/23 16:35	1

Client Sample Results

Client: Lighthouse Environmental Services, Inc Job ID: 880-23613-1 Project/Site: 2125-5742 Montera 6' Release SDG: 32.139295, -103.358124

Client Sample ID: SW-8

34.0

Lab Sample ID: 880-23613-8 Date Collected: 01/10/23 11:30 Matrix: Solid Date Received: 01/11/23 15:35

Sample Depth: 11'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/14/23 00:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/14/23 00:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/14/23 00:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130			01/12/23 15:11	01/14/23 00:14	1
o-Terphenyl (Surr)	104		70 - 130			01/12/23 15:11	01/14/23 00:14	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5.01

mg/Kg

01/16/23 22:59

Surrogate Summary

Client: Lighthouse Environmental Services, Inc Job ID: 880-23613-1
Project/Site: 2125-5742 Montera 6' Release SDG: 32.139295, -103.358124

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-23613-1	SW-1	109	94	
880-23613-2	SW-2	172 S1+	109	
880-23613-3	SW-3	86	70	
880-23613-4	SW-4	90	66 S1-	
880-23613-5	SW-5	77	78	
880-23613-6	SW-6	90	72	
880-23613-7	SW-7	83	77	
880-23613-8	SW-8	75	98	
LCS 880-43833/1-A	Lab Control Sample	110	95	
LCSD 880-43833/2-A	Lab Control Sample Dup	115	91	
MB 880-43539/5-A	Method Blank	83	91	
MB 880-43833/5-A	Method Blank	85	93	

BFB - 4-Bioinolidologetizette (Sult)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent S
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-23613-1	SW-1	127	112	
880-23613-1 MS	SW-1	99	80	
880-23613-1 MSD	SW-1	83	75	
880-23613-2	SW-2	143 S1+	161 S1+	
880-23613-3	SW-3	107	104	
880-23613-4	SW-4	111	104	
880-23613-5	SW-5	116	104	
880-23613-6	SW-6	102	98	
880-23613-7	SW-7	115	102	
880-23613-8	SW-8	108	104	
LCS 880-43837/2-A	Lab Control Sample	138 S1+	124	
LCSD 880-43837/3-A	Lab Control Sample Dup	140 S1+	130	
MB 880-43837/1-A	Method Blank	186 S1+	164 S1+	

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Lighthouse Environmental Services, Inc Job ID: 880-23613-1 Project/Site: 2125-5742 Montera 6' Release SDG: 32.139295, -103.358124

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43539/5-A

Analysis Batch: 43862

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43539

1

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		01/09/23 12:46	01/13/23 10:53	
Toluene	<0.00200	U	0.00200	mg/Kg		01/09/23 12:46	01/13/23 10:53	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/09/23 12:46	01/13/23 10:53	
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		01/09/23 12:46	01/13/23 10:53	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/09/23 12:46	01/13/23 10:53	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/09/23 12:46	01/13/23 10:53	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	01/09/23 12:4	6 01/13/23 10:53	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/09/23 12:4	6 01/13/23 10:53	1

mple ID: MD 000 42022/E /

Lab Sample ID: MB 660-43633/5-A	Client Sample ID: Wethod Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 43862	Prep Batch: 43833
MB MB	

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	mg/Kg		01/12/23 14:52	01/13/23 22:06	1
Toluene	<0.00200 L	J	0.00200	mg/Kg		01/12/23 14:52	01/13/23 22:06	1
Ethylbenzene	<0.00200 L	J	0.00200	mg/Kg		01/12/23 14:52	01/13/23 22:06	1
m,p-Xylenes	<0.00400 L	J	0.00400	mg/Kg		01/12/23 14:52	01/13/23 22:06	1
o-Xylene	<0.00200 L	J	0.00200	mg/Kg		01/12/23 14:52	01/13/23 22:06	1
Xylenes, Total	<0.00400 L	J	0.00400	mg/Kg		01/12/23 14:52	01/13/23 22:06	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	01/12/23 14:5	2 01/13/23 22:06	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/12/23 14:5	2 01/13/23 22:06	1

Lab Sample ID: LCS 880-43833/1-A

Matrix: Solid

Analysis Batch: 43862

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 43833

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07628		mg/Kg		76	70 - 130	
Toluene	0.100	0.08971		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.08555		mg/Kg		86	70 - 130	
m,p-Xylenes	0.200	0.1903		mg/Kg		95	70 - 130	
o-Xylene	0.100	0.1058		mg/Kg		106	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1.4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: LCSD 880-43833/2-A

Matrix: Solid

Analyte

Benzene

Analysis Batch: 43862

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

Prep Batch: 43833

Spike LCSD LCSD RPD %Rec Result Qualifier Added Unit %Rec Limits RPD Limit 0.100 0.07750 mg/Kg 78 70 - 130

QC Sample Results

Client: Lighthouse Environmental Services, Inc Job ID: 880-23613-1 Project/Site: 2125-5742 Montera 6' Release SDG: 32.139295, -103.358124

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-43833/2-A **Matrix: Solid**

Analysis Batch: 43862

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 43833

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09708		mg/Kg		97	70 - 130	8	35
Ethylbenzene	0.100	0.09265		mg/Kg		93	70 - 130	8	35
m,p-Xylenes	0.200	0.2078		mg/Kg		104	70 - 130	9	35
o-Xylene	0.100	0.1164		mg/Kg		116	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-43837/1-A

Matrix: Solid

Analysis Batch: 43854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43837

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 19:51	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 19:51	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/12/23 15:11	01/13/23 19:51	1

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	186	S1+	70 - 130	01/12/23 15:11	01/13/23 19:51	1
o-Terphenyl (Surr)	164	S1+	70 - 130	01/12/23 15:11	01/13/23 19:51	1

Lab Sample ID: LCS 880-43837/2-A

Matrix: Solid

Analysis Batch: 43854

Client Sam	ple ID:	Lab Conti	rol Sample

Prep Type: Total/NA

Prep Batch: 43837

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1056		mg/Kg		106	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	1099		mg/Kg		110	70 - 130
C10-C28)							

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	138	S1+	70 - 130
o-Terphenyl (Surr)	124		70 - 130

Lab Sample ID: LCSD 880-43837/3-A

Analysis Batch: 43854

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43837

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D %Re	c Limits	RPD	Limit
Gasoline Range Organics	1000	1032		mg/Kg	10	3 70 - 130	2	20
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1039		mg/Kg	10	4 70 - 130	6	20
C10-C28)								

Prep Type: Total/NA

Client Sample ID: SW-1

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Total/NA

Prep Batch: 43837

Prep Batch: 43837

Client Sample ID: Lab Control Sample Dup

QC Sample Results

Job ID: 880-23613-1 Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release SDG: 32.139295, -103.358124

70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-43837/3-A

Matrix: Solid

1-Chlorooctane (Surr)

Surrogate

Analysis Batch: 43854

LCSD LCSD %Recovery Qualifier Limits 140 S1+ 70 - 130

Lab Sample ID: 880-23613-1 MS

Analysis Batch: 43854

Matrix: Solid

o-Terphenyl (Surr) 130

Client Sample ID: SW-1 Prep Type: Total/NA Prep Batch: 43837

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 UF1 F2 998 2514 F1 248 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 100 <49.9 U 994.6 mg/Kg 70 - 130C10-C28)

MS MS %Recovery Surrogate Qualifier Limits 99 70 - 130 1-Chlorooctane (Surr) o-Terphenyl (Surr) 80 70 - 130

Lab Sample ID: 880-23613-1 MSD

Matrix: Solid

Analysis Batch: 43854 MSD MSD Sample Sample Spike Analyte Result Qualifier hahhA

Result Qualifier Unit %Rec I imits RPD Limit D Gasoline Range Organics <49.9 U F1 F2 997 883.6 F2 mg/Kg 85 70 - 130 96 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 906.2 mg/Kg 91 70 - 130 9 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane (Surr) 83 70 - 130 o-Terphenyl (Surr) 75

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43797/1-A

Matrix: Solid

Analysis Batch: 44142

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 01/16/23 19:59

Lab Sample ID: LCS 880-43797/2-A

Matrix: Solid

Analysis Batch: 44142

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit Chloride 250 259.0 mg/Kg 104 90 - 110

QC Sample Results

Client: Lighthouse Environmental Services, Inc Job ID: 880-23613-1 Project/Site: 2125-5742 Montera 6' Release SDG: 32.139295, -103.358124

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-43797/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Soluble**

Analysis Batch: 44142

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	259.4		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release Job ID: 880-23613-1 SDG: 32.139295, -103.358124

GC VOA

Prep Batch: 43539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43539/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 43833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-1	SW-1	Total/NA	Solid	5035	
880-23613-2	SW-2	Total/NA	Solid	5035	
880-23613-3	SW-3	Total/NA	Solid	5035	
880-23613-4	SW-4	Total/NA	Solid	5035	
880-23613-5	SW-5	Total/NA	Solid	5035	
880-23613-6	SW-6	Total/NA	Solid	5035	
880-23613-7	SW-7	Total/NA	Solid	5035	
880-23613-8	SW-8	Total/NA	Solid	5035	
MB 880-43833/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43833/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43833/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 43862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-1	SW-1	Total/NA	Solid	8021B	43833
880-23613-2	SW-2	Total/NA	Solid	8021B	43833
880-23613-3	SW-3	Total/NA	Solid	8021B	43833
880-23613-4	SW-4	Total/NA	Solid	8021B	43833
880-23613-5	SW-5	Total/NA	Solid	8021B	43833
880-23613-6	SW-6	Total/NA	Solid	8021B	43833
880-23613-7	SW-7	Total/NA	Solid	8021B	43833
880-23613-8	SW-8	Total/NA	Solid	8021B	43833
MB 880-43539/5-A	Method Blank	Total/NA	Solid	8021B	43539
MB 880-43833/5-A	Method Blank	Total/NA	Solid	8021B	43833
LCS 880-43833/1-A	Lab Control Sample	Total/NA	Solid	8021B	43833
LCSD 880-43833/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43833

Analysis Batch: 44070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-1	SW-1	Total/NA	Solid	Total BTEX	
880-23613-2	SW-2	Total/NA	Solid	Total BTEX	
880-23613-3	SW-3	Total/NA	Solid	Total BTEX	
880-23613-4	SW-4	Total/NA	Solid	Total BTEX	
880-23613-5	SW-5	Total/NA	Solid	Total BTEX	
880-23613-6	SW-6	Total/NA	Solid	Total BTEX	
880-23613-7	SW-7	Total/NA	Solid	Total BTEX	
880-23613-8	SW-8	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-1	SW-1	Total/NA	Solid	8015NM Prep	
880-23613-2	SW-2	Total/NA	Solid	8015NM Prep	
880-23613-3	SW-3	Total/NA	Solid	8015NM Prep	
880-23613-4	SW-4	Total/NA	Solid	8015NM Prep	
880-23613-5	SW-5	Total/NA	Solid	8015NM Prep	

Eurofins Midland

Page 18 of 28

2

2

1

O —

R

13

14

QC Association Summary

Client: Lighthouse Environmental Services, Inc

Job ID: 880-23613-1

Project/Site: 2125-5742 Montera 6' Release

SDG: 32.139295, -103.358124

2

GC Semi VOA (Continued)

Prep Batch: 43837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-6	SW-6	Total/NA	Solid	8015NM Prep	
880-23613-7	SW-7	Total/NA	Solid	8015NM Prep	
880-23613-8	SW-8	Total/NA	Solid	8015NM Prep	
MB 880-43837/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43837/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-23613-1 MS	SW-1	Total/NA	Solid	8015NM Prep	
880-23613-1 MSD	SW-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-1	SW-1	Total/NA	Solid	8015B NM	43837
880-23613-2	SW-2	Total/NA	Solid	8015B NM	43837
880-23613-3	SW-3	Total/NA	Solid	8015B NM	43837
880-23613-4	SW-4	Total/NA	Solid	8015B NM	43837
880-23613-5	SW-5	Total/NA	Solid	8015B NM	43837
880-23613-6	SW-6	Total/NA	Solid	8015B NM	43837
880-23613-7	SW-7	Total/NA	Solid	8015B NM	43837
880-23613-8	SW-8	Total/NA	Solid	8015B NM	43837
MB 880-43837/1-A	Method Blank	Total/NA	Solid	8015B NM	43837
LCS 880-43837/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43837
LCSD 880-43837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43837
880-23613-1 MS	SW-1	Total/NA	Solid	8015B NM	43837
880-23613-1 MSD	SW-1	Total/NA	Solid	8015B NM	43837

Analysis Batch: 44029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-1	SW-1	Total/NA	Solid	8015 NM	
880-23613-2	SW-2	Total/NA	Solid	8015 NM	
880-23613-3	SW-3	Total/NA	Solid	8015 NM	
880-23613-4	SW-4	Total/NA	Solid	8015 NM	
880-23613-5	SW-5	Total/NA	Solid	8015 NM	
880-23613-6	SW-6	Total/NA	Solid	8015 NM	
880-23613-7	SW-7	Total/NA	Solid	8015 NM	
880-23613-8	SW-8	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-1	SW-1	Soluble	Solid	DI Leach	
880-23613-2	SW-2	Soluble	Solid	DI Leach	
880-23613-3	SW-3	Soluble	Solid	DI Leach	
880-23613-4	SW-4	Soluble	Solid	DI Leach	
880-23613-5	SW-5	Soluble	Solid	DI Leach	
880-23613-6	SW-6	Soluble	Solid	DI Leach	
880-23613-7	SW-7	Soluble	Solid	DI Leach	
880-23613-8	SW-8	Soluble	Solid	DI Leach	
MB 880-43797/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43797/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43797/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Lighthouse Environmental Services, Inc

Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

HPLC/IC

Analysis Batch: 44142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23613-1	SW-1	Soluble	Solid	300.0	43797
880-23613-2	SW-2	Soluble	Solid	300.0	43797
880-23613-3	SW-3	Soluble	Solid	300.0	43797
880-23613-4	SW-4	Soluble	Solid	300.0	43797
880-23613-5	SW-5	Soluble	Solid	300.0	43797
880-23613-6	SW-6	Soluble	Solid	300.0	43797
880-23613-7	SW-7	Soluble	Solid	300.0	43797
880-23613-8	SW-8	Soluble	Solid	300.0	43797
MB 880-43797/1-A	Method Blank	Soluble	Solid	300.0	43797
LCS 880-43797/2-A	Lab Control Sample	Soluble	Solid	300.0	43797
LCSD 880-43797/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43797

2

4

5

7

8

IU

12

4 1

Initial

Amount

4.97 g

5 mL

10.03 g

1 uL

4.96 g

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

Batch

43833

43862

44070

44029

43837

43854

43797

44142

Number

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

8015 NM

Job ID: 880-23613-1 SDG: 32.139295, -103.358124

Lab Sample ID: 880-23613-1

Matrix: Solid

ΑJ

DM

ΑJ

KS

СН

Lab Sample ID: 880-23613-3

Lab Sample ID: 880-23613-4

Prepared

or Analyzed

01/12/23 14:52

01/14/23 01:11

01/16/23 16:54

01/16/23 16:35

01/12/23 15:11

01/13/23 20:57

01/12/23 09:32

01/16/23 22:03

Analyst Lab MNR **EET MID** MNR **EET MID** ΑJ **EET MID**

EET MID Lab Sample ID: 880-23613-2

EET MID

EET MID

EET MID

FFT MID

Matrix: Solid

Matrix: Solid

Client Sample ID: SW-1 Date Collected: 01/10/23 11:20 Date Received: 01/11/23 15:35

Run

Dil

1

1

Factor

Soluble Leach DI Leach Soluble Analysis 300.0 Client Sample ID: SW-2

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Date Collected: 01/10/23 11:15 Date Received: 01/11/23 15:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43833	01/12/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	43862	01/14/23 01:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44070	01/16/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44029	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 22:04	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43797	01/12/23 09:32	KS	EET MID
Soluble	Analysis	300.0		1			44142	01/16/23 22:09	CH	EET MID

Client Sample ID: SW-3 Date Collected: 01/10/23 11:10

Date Received: 01/11/23 15:35

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43833	01/12/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43862	01/14/23 02:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44070	01/16/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44029	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 22:48	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43797	01/12/23 09:32	KS	EET MID
Soluble	Analysis	300.0		1			44142	01/16/23 22:28	CH	EET MID

Client Sample ID: SW-4 Date Collected: 01/10/23 11:05

Date Received: 01/11/23 15:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43833	01/12/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43862	01/14/23 03:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44070	01/16/23 16:54	AJ	EET MID

Eurofins Midland

Matrix: Solid

Lab Chronicle

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1 SDG: 32.139295, -103.358124

Client Sample ID: SW-4

Date Collected: 01/10/23 11:05 Date Received: 01/11/23 15:35

Lab Sample ID: 880-23613-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			44029	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 22:26	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43797	01/12/23 09:32	KS	EET MID
Soluble	Analysis	300.0		1			44142	01/16/23 22:34	CH	EET MID

Lab Sample ID: 880-23613-5

Date Collected: 01/10/23 11:00

Client Sample ID: SW-5

Matrix: Solid

Date Received: 01/11/23 15:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43833	01/12/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43862	01/14/23 03:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44070	01/16/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44029	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 23:09	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43797	01/12/23 09:32	KS	EET MID
Soluble	Analysis	300.0		1			44142	01/16/23 22:40	CH	EET MID

Client Sample ID: SW-6 Lab Sample ID: 880-23613-6 Date Collected: 01/10/23 10:55

Date Received: 01/11/23 15:35

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43833	01/12/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43862	01/14/23 03:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44070	01/16/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44029	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/13/23 23:31	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43797	01/12/23 09:32	KS	EET MID
Soluble	Analysis	300.0		1			44142	01/16/23 22:46	CH	EET MID

Lab Sample ID: 880-23613-7 Client Sample ID: SW-7

Date Collected: 01/10/23 11:25 Date Received: 01/11/23 15:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43833	01/12/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43862	01/14/23 04:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44070	01/16/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44029	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 ul	1 ul	43854	01/13/23 23:52	Α.Ι	FET MID

Eurofins Midland

Matrix: Solid

Lab Chronicle

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

Client Sample ID: SW-7

Date Received: 01/11/23 15:35

Lab Sample ID: 880-23613-7 Date Collected: 01/10/23 11:25

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 43797 Leach 4.98 g 50 mL 01/12/23 09:32 KS **EET MID** 300.0 01/16/23 22:52 Soluble Analysis 1 44142 СН **EET MID**

Client Sample ID: SW-8 Lab Sample ID: 880-23613-8

Matrix: Solid

Date Collected: 01/10/23 11:30 Date Received: 01/11/23 15:35

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43833	01/12/23 14:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43862	01/14/23 04:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44070	01/16/23 16:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44029	01/16/23 16:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43837	01/12/23 15:11	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43854	01/14/23 00:14	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43797	01/12/23 09:32	KS	EET MID
Soluble	Analysis	300.0		1			44142	01/16/23 22:59	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

Laboratory: Eurofins Midland

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

authority exas		ogram	Identification Number	Expiration Date		
		ELAP	T104704400-22-25	06-30-23		
The following analytes the agency does not of		it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo		
Analysis Method	Door Made ad	Matrix				
/ triary 515 TVICTIOG	Prep Method	Maurx	Analyte			
8015 NM	Ргер метпоа	Solid	Analyte Total TPH			

Method Summary

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Lighthouse Environmental Services, Inc Project/Site: 2125-5742 Montera 6' Release

Job ID: 880-23613-1

SDG: 32.139295, -103.358124

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-23613-1	SW-1	Solid	01/10/23 11:20	01/11/23 15:35	10'
880-23613-2	SW-2	Solid	01/10/23 11:15	01/11/23 15:35	10'
880-23613-3	SW-3	Solid	01/10/23 11:10	01/11/23 15:35	12'
880-23613-4	SW-4	Solid	01/10/23 11:05	01/11/23 15:35	12'
880-23613-5	SW-5	Solid	01/10/23 11:00	01/11/23 15:35	13'
880-23613-6	SW-6	Solid	01/10/23 10:55	01/11/23 15:35	13'
880-23613-7	SW-7	Solid	01/10/23 11:25	01/11/23 15:35	11'
880-23613-8	SW-8	Solid	01/10/23 11:30	01/11/23 15:35	11'

eurofins **

Xenco

Environment Testing

Project Manager Company Name

Simon Hudgens

4904 Fuqua Street

Lighthouse Environmental Services, Inc

Company Name. Bill to: (if different)

Plains All American Attn Camille Bryant

State of Project NM

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

Page <u>1</u> of <u>1</u>

Address.

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 Midland TX (432) 704-5440 San Antonio TX (210) 509-3334 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work (
Order No:
<u>.</u>
286
878

	5	1	Relinquished by	of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge of \$6 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Euroffine Yango its efficience and authors.	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010			8-WS	7-WS	9-WS	SW-5	SW-4	SW-3	SW-2	SW-1	Sample Identification	Total Containers	Sample Custody Seals	Cooler Custody Seals.	Samples Received Intact	SAMPLE RECEIPT	PO#	Sampler's Name.	Project Location 3	Project Number: 2	Project Name.	Phone: 7	
			(Signature)	will be liable only for mum charge of \$86.0	cument and relingu	d Metal(s) to be	10 200.8 / 6020				,								8	s. Yes No	Yes No	(\forall es/	T 79mm Blank	2125-5742	Trey Sawyer	32 139295, -103 358124	2125-5742	Montera 6" Release	713-987-0400	
				or the cost	ishment o	analyz	720			Soil	Soil	Sol	Sol	Soil	Sol	Soil	Soil	Matrix I	Ž	NA A	(3)	₹	ank.			35812		ase		
		e	Received by	t of samples and applied to each	of samples cons		20			1 10 23	1 10 23	1 10 23	1 10 23	1 10 23	1 10 23	1 10 23	1 10 23	Matrix Date Sampled	Corrected Temperature	Temperature Reading	Correction Factor	Thermometer ID	Yes (No)	4				
		A	d by (Signature)	d shall not assu project and a ch	titutes a valid or	70 D / 0	BRCRA 13DDM			1130	1125	1055	1100	1105	1110	1115	1120	Time Sampled	nperature	Reading	ctor	ō	Wet loe:	the lab if rec	てAT starts th	Due Date	☑ Routine	Turn	Email	
			ture)	me any responsi arge of \$5 for ea	es a valid purchase order fro		11			11' Grab	11' Grab	13' Grab	13' Grab	12' Grab	12' Grab	10' Grab	10' Grab	Depth Grab/	C.C	3,7	730	4	(yes/√No	the lab if received by 4 30pm	TAT starts the day received by		Rush	Turn Around	shudgens@lighthouseenv.com, ap@lighthouseenv.com, tsawyer@lighthouseenv.com, tramirez@lighthouseenv.com, iminto@lighthouseenv.com	
-		_		bility for a	on client of	} ≥	≥┞				b 1	b 1	b 1	ъ -	b 1	ъ 1	<u></u>	b/ # of Cont	<u> </u>		P	arar	nete		y		Pres.		ouseenv.con	
		=	∤ Date	ny losses submitte	OM AS DA		>∥	+-										трн тх	-100	5, E	xten	ded	Ran	ges			•		om, ap@lic n, iminto@	
	53	\widetilde{c}_{i}	Date/Time	or expense	S Da De		<u>-</u>											TCLP B											hthouseenv lighthouseer	
0	2 4	2		es incurre	Ca c			-	-									TCLP R		. 8 N	letai								/ com, tsa	
			Relinquished by	d by the	ca cr co					×	×	×	×	×	×	×	×	BTEX 80)21E	3	· · · ·								wyer@ligh	
			iished t	client if su unalyzed	מא מא	ָרָ הַרָּ												RCI										ANALY	thouseen	
Į.				uch losses ar These terms	<	• -												рН										SIS	v.com.	
			(Signature)	erms will	13 11	: ,≲	11		_	×	×	×	×	×	×	×	×	TPH 801	5 G	RO,	DRC), M	RO					REQUEST		_
-			9	tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control se terms will be enforced unless previously negotia	Se Ag	' ≦				×	<u> </u>	×	×	×	×	×	×	Chloride	EP	A 30	0 0							ST	Deliverables.	
			R	mstance ed unles	=	:			<u> </u>					- 1															les. EDD	•
			ceived	s beyond		S C O			10010	880				*													\exists		ŏ	
			by (S	condition the con-	Hg	Ag S								-							············									
			Received by (Signature)	trol otiated	Hg 1631 / 245 1 / 7470 / 7471	SIO ₂ Na			Chain of Custody																				ADaPT 🗆	ı
			<u>ē</u>		245 1	\ \(\frac{1}{2} \)			Custo									_s	NaOH	Zn Ace	Na ₂ S ₂ C	NaHSC	H ₃ PO ₄ HP	H ₂ SO ₄ H ₂	HCL HC	Cool Cool	None NO	פ		
Revised D					/ 7470	Sn			9							1	9	ample	-Ascorb	tate+Na	$Na_2S_2O_3$ $NaSO_3$	NaHSO₄ NABIS	퓻	<u></u>	ဂ	<u>8</u>	δ	eserv:	Other	
ate 08/25/2			Date/Time		/ 7471	V Zn	:										\	Sample Comments	NaOH+Ascorbic Acid SAPC	Zn Acetate+NaOH Zn	္မပ	S		NaO	H	MeC	밀	Preservative Codes	ľ	
Revised Date 08/25/2020 Rev 2020.2			Time										l					ents	SAPC					NaOH Na	HNO. HN	MeOH Me	DI Water H ₂ O	odes		1000
20.2																			·								0		L	

Login Sample Receipt Checklist

Client: Lighthouse Environmental Services, Inc

Job Number: 880-23613-1

SDG Number: 32.139295, -103.358124

List Source: Eurofins Midland

Login Number: 23613 List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or ampered 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	
s the Field Sampler's name present on COC?	True	
here 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	
ppropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	

4

1/17/2023

REFERENCES

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2229253656
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party	Plains Pipeline, L.	Р.	OGRID	34053	
Contact Name Karolanne Hudgens		Contact Te	elephone 575-200-5517			
Contact emai	il	khudgens@paalp.o	com	Incident #	(assigned by OCD) nAPP2229253656	
Contact mail	ing address	1106 Griffith Dr	ive, Midland, TX	79706		
			Location	of Release So	ource	
Latitude 32.1	388868				-103.3580480	
			(NAD 83 in dec	rimal degrees to 5 decin	nal places)	
Site Name	Plains Mont	tera 6" Release		Site Type	Pipeline	
Date Release	Discovered	10/18/2022		API# (if app	plicable)	
		1				
Unit Letter	Section	Township	Range	Cour	-	
N	10	25S	35E	Lea	a	
Surface Owner			Nature and	Volume of 1		
Crude Oil			d (bbls) 21.1 bbls	calculations or specific	visitification for the volumes provided below) Volume Recovered (bbls) 21.1 bbls	
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)	
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		hloride in the	☐ Yes ☐ No			
Condensa	ite	Volume Release	d (bbls)		Volume Recovered (bbls)	
☐ Natural G	as	Volume Released (Mcf)			Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)			
Cause of Relo Internal corro		le oil pipeline.			1	

Received by OCD: 3/17/2023/11/29318 AM State of New Mexico
Page 2 Oil Conservation Division

\boldsymbol{P}	age	1109	of	11	12
				-4	

Incident ID	NAPP2229253656
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?			
release as defined by	11 1 L5, for what reason(s) does the respon	isione party consider this a major release.			
19.15.29.7(A) NMAC?					
□ Vaa ⊠ Na					
☐ Yes ⊠ No					
707777					
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?			
	Initial Ro	esponse			
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury			
		· · · · · · · · · · · · · · · · · · ·			
The source of the rele	ease has been stopped.				
	s been secured to protect human health and	the environment.			
	•	ikes, absorbent pads, or other containment devices.			
	ecoverable materials have been removed an				
<u> </u>	d above have <u>not</u> been undertaken, explain				
if all the actions described	d above have <u>not</u> been undertaken, explain	wny.			
		emediation immediately after discovery of a release. If remediation			
		efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.			
	. , , , , , , , , , , , , , , , , , , ,	pest of my knowledge and understand that pursuant to OCD rules and			
		fications and perform corrective actions for releases which may endanger			
		CD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In			
		responsibility for compliance with any other federal, state, or local laws			
and/or regulations.					
Printed Name:	Karolanne Hudgens	Title: HSE Remediation Specialist II			
Signature:		Date: <u>10/20/2022</u>			
email: <u>khudgens</u>	@paalp.com_	Telephone: <u>575-200-5517</u>			
OCD Only					
Received by: Jocely	n Harimon	Date: 10/20/2022			
<u> </u>					

Soil Type	Est. Pore Space
Clay	15%
Sandy Clay	12%
Silt	16%
Loess	25%
Fine Sand	16%
Med. Sand	25%
Coarse Sand	26%
Gravelly Sand	26%
Fine Gravel	26%
Med. Gravel	25%
Coarse Gravel	18%
Compacted Caliche Pad	16%
Loosely Compacted Caliche Pad	20%

Location:

Rule of Thumb

5.0 = Total Estimated Barrels of Oil in Soil

To Calculate The Oil Content of Saturated Soil

Average Pore Space Between Soil Grains Ranges From A Low of 15% To A High of 26%. Pure Sand Being 26%.

16% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- 7 = Width in Feet
- 5 = Length in Feet
- 60 = Depth in Inches
- 5 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 209.44 = Gallons of Oil In Soil
 - 5.0 = Barrels of Oil In Soil

If different soil types are impacted (I.E. Caliche Pad and Sandy Clay Pasture Area), additional calculation boxes are provided below. If not, please make sure the dimensions are zeroed out before finalizing.

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- = Width in Feet
- = Length in Feet
- = Depth in Inches
- 0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 0.00 = Gallons of Oil In Soil
- 0.0 = Barrels of Oil In Soil

20% = Estimated Pore Space

Width Times Length Times Depth = Cubic Feet

- = Width in Feet
- = Length in Feet
- = Depth in Inches
- 0 = Depth in Feet

There Are 7.48 Gallons Of Oil Per Cubic Foot

- 0.00 = Gallons of Oil In Soil
- 0.0 = Barrels of Oil In Soil

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 152283

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	152283
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	10/20/2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 198316

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	198316
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Creat By	d Condition	Condition Date
jnob	Remediation Plan Approved with Conditions. Please have this work completed within 90 days as opposed to the proposed 180 days.	4/24/2023