

Initial Site Assessment/Characterization Report

Lost Tank 16 State #004 Producing Oil Well
New Mexico Oil Conservation Division
(NMOCD) District RP #1RP-5579

Prepared For:
Chevron Mid-Continent Business Unit (MCBU)

Prepared By:
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September 2019

Initial Site Assessment/Characterization Report

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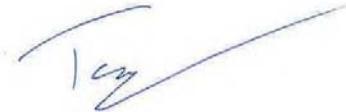
**Lost Tank 16 State #004 Producing Oil Well
Produced Water Spill Site
Lea County, New Mexico
NMOCD RP #1RP-5579**

Chevron Mid-Continent Business Unit (MCBU)

September 2019
AECOM Project No. 60610222



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Senior Project Manager



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Senior Geologist

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1. Introduction

On behalf of Chevron Mid-Continent Business Unit (MCBU), AECOM Technical Services, Inc. (AECOM) has prepared this Initial Assessment/Characterization Report to describe the initial assessment activities that have been conducted to characterize potential impacts to environmental media (soil and groundwater) resulting from a produced water spill that occurred at the Lost Tank 16 State #004 site in Lea County, New Mexico ("the Site").

2. Background

The Site is located at Latitude 32.485096° North, Longitude 103.6872253° West in Lea County, New Mexico (**Figure 1**).

On June 5, 2019, approximately 6.08 barrels (bbls) of produced water with a dissolved chloride concentration greater than 10,000 milligrams per liter (mg/L) and 0.9 bbls of crude oil were reported to have been released to an unlined well pad. The release was associated with a pumping unit packing failure. Approximately 6 bbls of produced water and 0.2 bbls of crude oil were reported to have been recovered. As required by the New Mexico Oil Conservation Division (NMOCD) under 19.15.29 New Mexico Administrative Code (NMAC), Chevron's initial response to the release included:

- Stopping the release at the source;
- Securing the impacted soil area to protect human health and the environment; and
- Containing the released produced water and crude oil; and
- Recovering approximately 6 bbls of produced water and 0.2 bbls of crude oil.

A Release Notification, Form C-141, dated June 18, 2019, was submitted to the NMOCD. The Form C-141 documents the responsible party, location of the release source, nature, and volume of the release, and initial response to the release. NMOCD assigned District RP #1RP-5579 to the release. An updated Form C-141 is provided as **Appendix A**.

3. Initial Site Assessment/Characterization

The findings from an initial desktop assessment/characterization of the Site are summarized below.

- The Site is situated along the northwestern flank of Hat Mesa, which is a topographic high point in the Site area. The elevation of the Site is about 3,710 feet above mean sea level (amsl) and the surface topography slopes to the west-southwest.
- Online *Water Column/Average Depth to Water* data from the New Mexico Water Rights Reporting System (NMWRRS) identified no water wells within ½ mile of the Site. An initial online search of NMWRRS data for the area within a 1,000 meter radius of the Site did not produce any water level data. Depth to groundwater is anticipated to be greater than 50 feet below ground surface (ft bgs) as indicated by the following:
 - An expanded radius search of the NMWRRS online data indicated the average depth to groundwater within 10,000 meters of the Site is 215 ft bgs (**Appendix B**).
 - The closest identified water well, Point of Diversion (POD) C 03151, was installed in 2005 to a reported depth of 1352 ft bgs, approximately 1.4 miles northwest of the Site. The initial use and current status of this well is unknown. No depth to water was reported by the NMWRRS for this well.

Initial Site Assessment/Characterization Report

- The closest well to the Site with reported water level data, POD water well CP 01701 POD1, was installed in October 2018 with a reported screened interval of 460 to 840 ft bgs, approximately 4 miles southeast of the Site. The reported depth to water for this well is 560 ft bgs. The initial use and current status of this well is unknown.
- A desktop evaluation of surface topography relative to surface water features identified on Google Earth approximately 5.2 miles west of the Site indicates that the depth to groundwater at the Site may be greater than 500 ft bgs. This is consistent with the reported depth to groundwater of 560 ft bgs described above for POD water well CP 01701 POD1, which is situated along the western flank of Hat Mesa at a slightly lower elevation than the Site (Site elevation of about 3,710 ft amsl vs about 3,670 ft amsl for CP 01701 POD1).
- The underlying soils at the Site are comprised of fine sand associated with eolian sand dunes.
- There are no continuously flowing watercourses or other significant watercourses within ½ mile of the Site.
- The Site is not located within 200 ft of any lakebed, known sinkhole, or playa lake.
- The nearest occupied permanent residence, school, hospital, institution, or church is greater than 10 miles from the Site.
- There are no known springs or wells used for domestic or stock watering purposes within ½ mile of the Site.
- There are no known water wells within ½ mile of the Site.
- No incorporated municipal boundaries or defined municipal fresh water well fields are located within 20 miles of the Site.
- No wetlands are present within 300 feet of the Site.
- No subsurface mines are located beneath the Site.
- No karst geology features or other unstable areas are known to be located near the Site.
- The Site is not located within a 100-year floodplain.
- Operations near the Site are for oil and gas exploration, development, production, or storage only, and no impact to areas that are not on an exploration, development, production, or storage site are expected.

In summary, no sensitive environmental and/or ecological receptors were identified within the search criteria distances described in 19.15.29.11 and 19.15.29.12.C.(4) NMAC. **Figure 1** shows the location of the Site and surrounding area on a topographic map. Based on information obtained during the initial desktop assessment/characterization and the volume of produced water released and recovered, no impact to groundwater, surface water, springs, or other sources of fresh water is currently suspected.

4. Initial Soil Assessment

On July 29, 2019, initial soil assessment activities were conducted at the Site, which included collection of soil samples from five hand auger boring locations (LT16-01 through LT16-05) as shown on **Figure 2**. At the time of sampling, AECOM could not determine the extent of the spill based on visual observations of the well pad surface; therefore, professional judgement was used to select the boring locations. Hand auger boring LT 16-01 was drilled in the reported spill area (wellhead). Borings LT16-02 through LT16-05 were drilled at locations about 30 to 50 feet from the wellhead for horizontal delineation purposes. Site photographs are provided in **Appendix C**.

In each of the hand auger borings, caliche and silty sand (well pad material) were encountered from the ground surface to depths of one to two ft bgs. The well pad material was underlain by reddish brown silty sand to the total depth of the borings at five ft bgs. Soil samples were collected from each of the borings

Initial Site Assessment/Characterization Report

and field-screened for petroleum hydrocarbons using a photoionization detector (PID) to measure volatile organic vapor concentrations. Samples were also field screened to identify elevated chloride concentrations using a Field Scout Direct Soil EC Meter to measure electrical conductivity (EC) and a procedure described in *A Guide for Remediation of Salt/Hydrocarbon Impacted Soil* developed by the North Dakota Industrial Commission Department of Mineral Resources. A copy of this procedure is provided in **Appendix D**. A Summary of Field Sample Collection and Screening Activities is provided as **Appendix E**.

Two soil samples were initially selected for petroleum hydrocarbon analysis from boring LT16-01, including the depth interval that exhibited the highest PID reading and the interval at the borehole terminus. The corresponding samples from borings LT16-02 through LT16-05 were initially put on hold for laboratory analysis of petroleum hydrocarbons pending results for boring LT16-01. Based on the results for boring LT16-01, total petroleum hydrocarbon (TPH) analysis was requested for the hold samples from borings LT16-02 through LT16-05. It should be noted that the TPH results for the samples from borings LT16-02 through LT16-05 have been flagged by the laboratory with an "H" data qualifier, which indicates, "*The samples were prepped or analyzed beyond the specified holding time.*" The TPH samples were analyzed within the required holding time, but were not frozen by the laboratory within 48 hours as specified by the analytical method requirements.

Each of the depth interval samples from hand auger borings LT16-01 through LT16-05 were selected for chloride analysis irrespective of the field screening results. Two samples LT16-02-2-3 and LT16-03-3-4 were not analyzed for chloride due to issues associated with transportation to the laboratory.

The soil samples were transferred into clean, laboratory-provided sample containers, labeled and placed on ice in laboratory-provided coolers. Chain of Custody forms were completed, and the samples were shipped to the TestAmerica laboratory in Houston, Texas for analysis of benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8260B, TPH by EPA Method 8015B and chloride by EPA Method 9056A. The BTEX and TPH samples were collected using laboratory-provided EnCore® sampling kits in accordance with United States Environmental Protection Agency (EPA) Method 5035/5035A. The laboratory results are summarized in **Table 1** and the laboratory analytical report is provided as **Appendix F**.

At the conclusion of drilling and soil sampling activities, the soil borings were backfilled with bentonite chips. Investigation derived waste (IDW); including soil cuttings, disposable sampling equipment and disposable personal protective equipment (PPE) such as nitrile gloves, was placed in a 55-gallon drum currently stored at the Chevron Baker B Battery site pending offsite disposal.

4.1 Initial Soil Sampling Results

The soil analytical results were initially compared to *Table I, Closure Criteria for Soils Impacted by a Release* provided in 19.15.29.12 NMAC, which includes the following:

Table I Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/L TDS	Constituent	Limit
≤ 50 feet bgs	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
51 feet – 100 feet bgs	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg

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The regulatory limits in Table I above are associated with protection of sensitive receptors, which are primarily water resources for this Site. None of the constituent concentrations reported for the shallow soil samples exceed the regulatory limits shown above in Table I for sites where groundwater is deeper than 50 ft bgs. As described above in *Section 3*, it is currently anticipated that depth to groundwater is greater than 50 feet bgs at the Site.

The soil analytical results for the Site were also compared to the chloride regulatory limit of 600 milligrams per kilogram (mg/kg) specified for the upper four feet of soil under 19.15.29.13.D.(1) NMAC for *RESTORATION, RECLAMATION AND RE-VEGETATION*. The chloride concentrations of 1,620 mg/kg reported for sample LT16-01 (0-1') and 913 mg/kg reported for sample LT16-01 (1-2') exceed the regulatory limit of 600 mg/kg for future Site reclamation. The extent of chloride concentrations above 600 mg/kg in soil is delineated vertically by the chloride concentration of 455 mg/kg reported for sample LT16-01 (2-3') and horizontally by the chloride concentrations reported for each of the depth interval samples collected from hand auger borings LT16-02 through LT16-05, which were below 600 mg/kg.

The laboratory analytical results for the initial soil assessment samples are summarized in **Table 1** and on **Figure 2**. The laboratory analytical report is provided in **Appendix F**.

5. Conclusions and Recommendations

The initial Site assessment/characterization results include the following:

- No sensitive environmental and/or ecological receptors were identified within the search criteria distances described in 19.15.29.11 and 19.15.29.12.C.(4) NMAC.
- Constituent concentrations in soil are below the applicable regulatory limits based on anticipated depth to groundwater greater than 50 ft bgs beneath the Site as described above in *Section 3*.
- The chloride concentrations of 1,620 mg/kg reported for sample LT16-01 (0-1') and 913 mg/kg reported for sample LT16-01 (1-2') exceed the regulatory limit of 600 mg/kg for future Site reclamation. Groundwater at the Site is anticipated to be deeper than 50 feet bgs and these reported chloride concentrations do not exceed the 10,000 mg/kg limit for protection of sensitive receptors associated with Table I.

No further action is recommended at this time to address the chloride concentrations that exceed the regulatory limit of 600 mg/kg for future soil reclamation at the Site. MCBU requests NMOCDD concurrence that soil remediation related to future Site reclamation can be deferred until the Lost Tank 16 State #004 producing well is taken out of service based on the following:

- As described under 19.15.29.12.C.2, “*If contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. The deferral may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment, or ground water. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.*”
 - The spill occurred at the wellhead. Complete removal of impacted soil is not practicable without causing disruption to ongoing operation of the producing oil well.
 - The chloride exceedance of regulatory limits was only reported for samples LT16-01 (0-1') and LT16-02 (1-2'), which were both comprised of well pad material, including caliche and silty sand. The extent of soil impacts has been fully delineated both vertically and horizontally, and no exceedences of regulatory limits were reported for native soil underlying the well pad.
 - There is currently no apparent benefit for conducting soil remediation activities to satisfy regulatory requirements associated with future Site reclamation. More thorough remediation of

Initial Site Assessment/Characterization Report

impacted well pad material and shallow underlying soil can be accomplished once the producing oil well is taken out of service and reclamation activities are performed to re-vegetate the area of the current well pad.

Proposed future Site activities include the following:

- Upon termination of production operations at the Site, the well pad material will be removed and replaced with clean soil suitable for re-vegetation. Future reclamation activities will also include:
 - Remediation of impacted native soil underlying the well pad (if present), and
 - Confirmation sampling and associated documentation to verify that remaining constituent concentrations in soil do not exceed regulatory limits in accordance with 19.15.29 NMAC and NMOCD requirements.

6. References

New Mexico Water Rights Reporting System (NMWRRS), Water Column/Average Depth to Water Report.

<http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>.

National Wetlands Inventory, surface waters and wetlands.

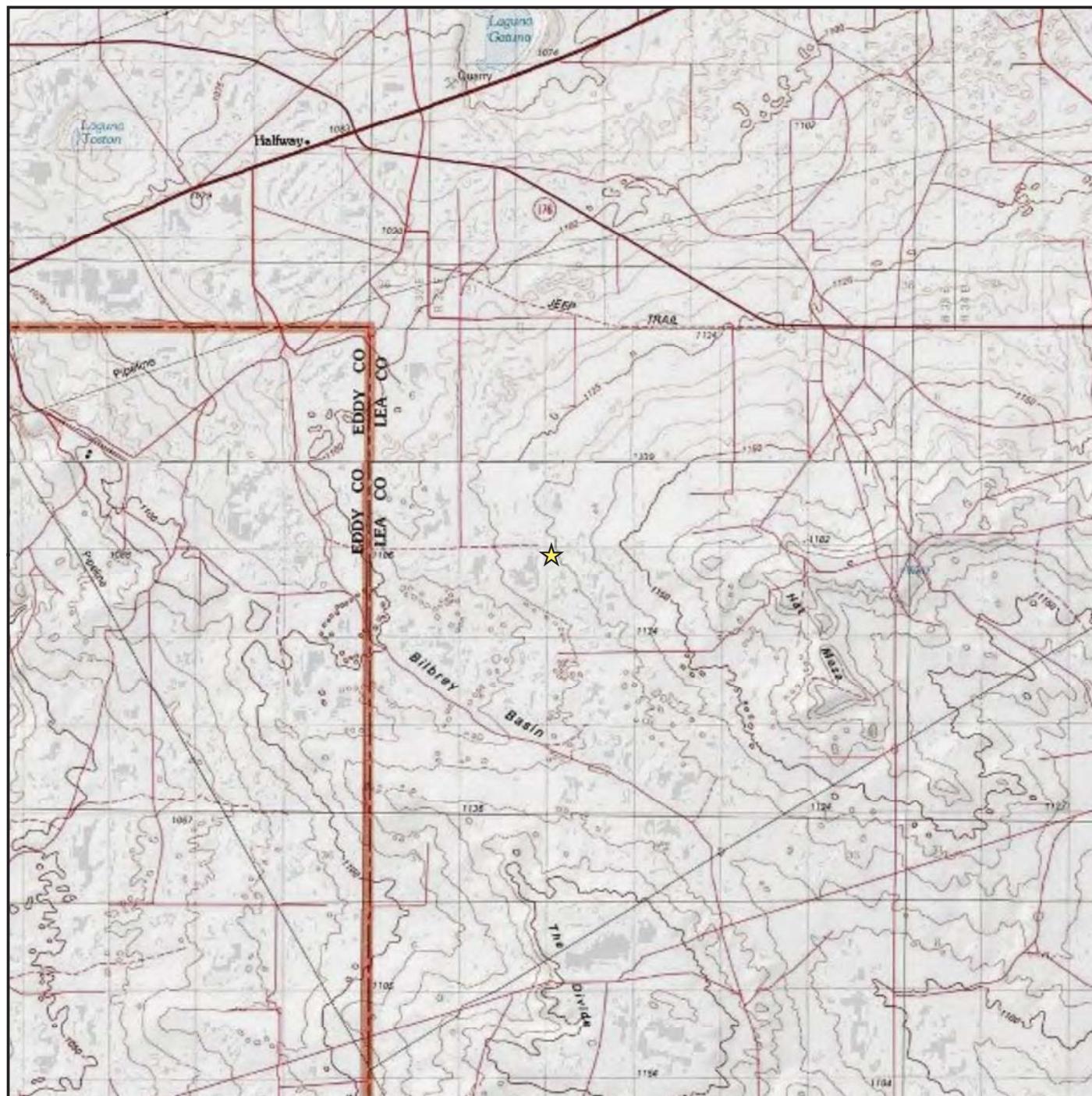
<https://www.fws.gov/wetlands/data/mapper.html>

Google Earth Pro.

United States Department of Agriculture – Natural Resources Conservation Service. Web Soil Survey.

Available on line at <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>.

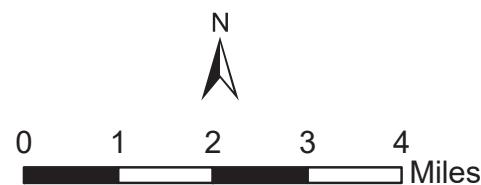
Figures

**Legend**

★ Lost Tank Site Location

Map Location**Site Location Map**

Lost Tank 16 State #004
Lea County, New Mexico
Chevron MCBU

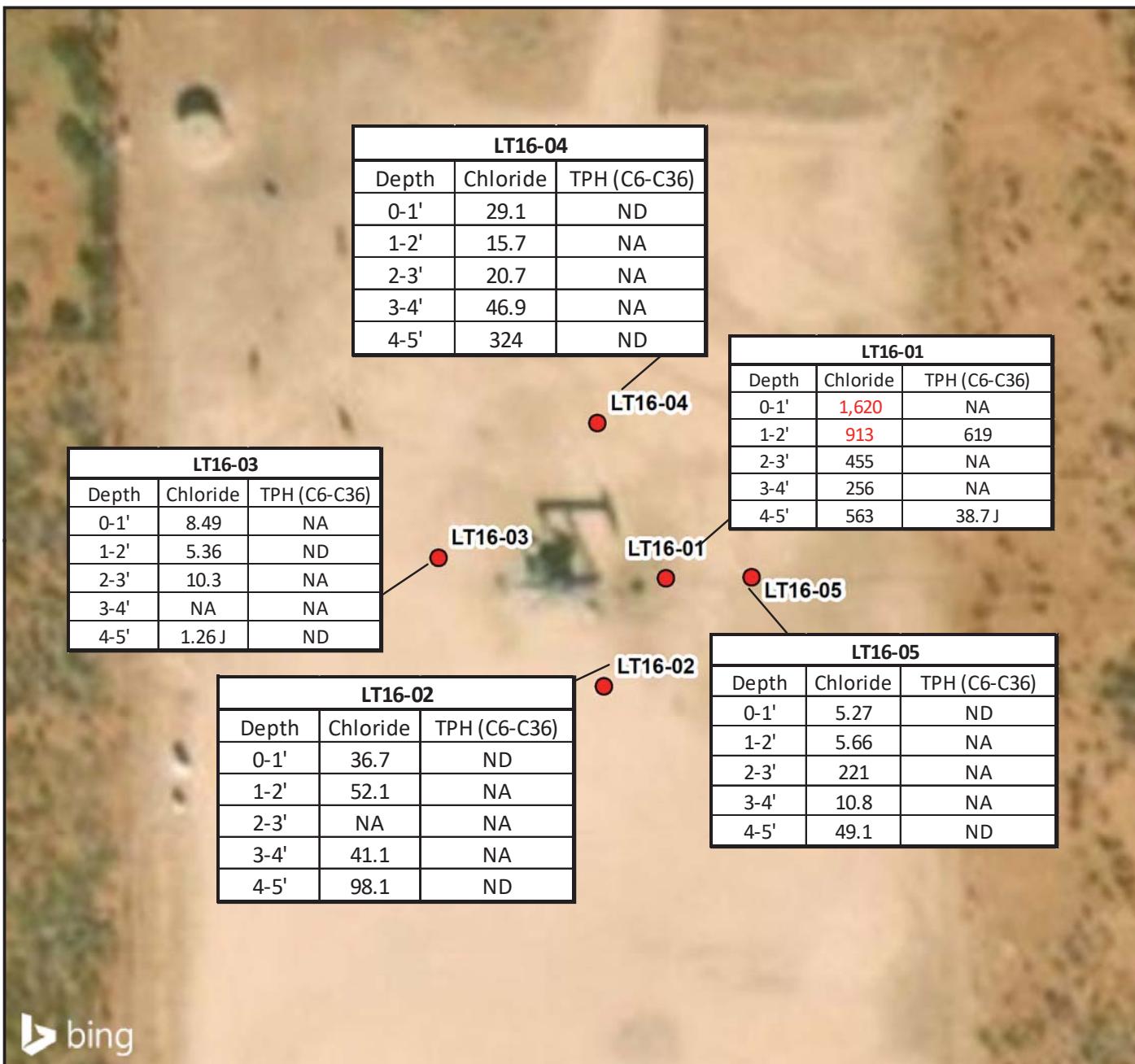


Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere
Projection: Mercator Auxiliary Sphere

AECOM**Figure 1**

Date: August 2019

Project #: 60610222



Legend

- Soil Boring Locations

Samples Collected July 29, 2019

Soil analytical results reported in milligrams per kilogram (mg/kg)

Regulatory Limits:

TPH - 2,500 mg/kg (Based on depth to groundwater greater than 50 feet)

Chloride - 600 mg/kg (Soil Reclamation Limit)

NA - Not Analyzed

ND - Not detected above laboratory method reporting limits

J - Result is less than the Method Quantitation Limit but greater than or equal to the Sample Detection Limit.

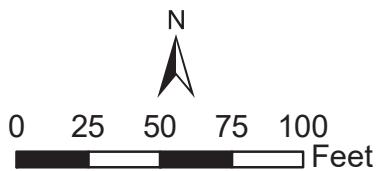
Red Font -
Exceeds Regulatory Limit

Sample Location Map

Lost Tank 16 State #004
Lea County, New Mexico
Chevron MCBU

AECOM

Figure 2



Date: August 2019

Project #: 60610222

Tables

Table 1
Soil Analytical Results
Lost Tank 16 Site #004
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (in ft bgs)	Total Petroleum Hydrocarbons (EPA 8015B)						Volatile Organics (EPA 8260B)				Chloride (Method 9056A) 600**	
			GRO C6-C10		DRO C10-C28		MRO C28-C36		TPH GRO+DRO+MRO		Benzene	Toluene	Ethyl/benzene	
			Regulatory Limits	---	---	---	2500*	10	---	---	---	---	---	
L116-01-0-1	07/29/19	0-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,620
L116-01-1-2	07/29/19	1-2	0.690	J	513	105	619	0.000631 U	0.00138 U	0.00102 U	0.00113 U	0.00113 U	913	
L116-01-2-3	07/29/19	2-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	455
L116-01-3-4	07/29/19	3-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	256
L116-01-4-5	07/29/19	4-5	0.0631	U	38.7	J	34.8	U	38.7	J	0.000713 U	0.00156 U	0.00115 U	563 b
L116-02-0-1	07/29/19	0-1	0.0636	UH	34.2	UH	ND	NA	NA	NA	NA	NA	NA	36.7
L116-02-1-2	07/29/19	1-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	52.1 b
L116-02-2-3	07/29/19	2-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L116-02-3-4	07/29/19	3-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41.1
L116-02-4-5	07/29/19	4-5	0.0642	UH	35.6	UH	35.6	UH	ND	NA	NA	NA	NA	98.1 b
L116-03-0-1	07/29/19	0-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.49
L116-03-1-2	07/29/19	1-2	0.0632	UH	33.9	UH	33.9	UH	ND	NA	NA	NA	NA	5.36
L116-03-2-3	07/29/19	2-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.3
L116-03-3-4	07/29/19	3-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L116-03-4-5	07/29/19	4-5	0.0633	UH	33.6	UH	33.6	UH	ND	NA	NA	NA	NA	1.26 J
L116-04-0-1	07/29/19	0-1	0.0631	UH	35.4	UH	35.4	UH	ND	NA	NA	NA	NA	29.1
L116-04-1-2	07/29/19	1-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.7
L116-04-2-3	07/29/19	2-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20.7
L116-04-3-4	07/29/19	3-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	46.9 b
L116-04-4-5	07/29/19	4-5	0.0642	UH	34.5	UH	34.5	UH	ND	NA	NA	NA	NA	324 b
L116-05-0-1	07/29/19	0-1	0.0633	UH	34.1	UH	34.1	UH	ND	NA	NA	NA	NA	5.27 b
L116-05-1-2	07/29/19	1-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.66 b
L116-05-2-3	07/29/19	2-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	221 b
L116-05-3-4	07/29/19	3-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10.8 b
L116-05-4-5	07/29/19	4-5	0.0660	UH	34.7	UH	34.7	UH	ND	NA	NA	NA	NA	49.1 b

Notes:

1. Soil analyses performed by TestAmerica Laboratories, Inc. in Houston, Texas.
2. Units for all analytical data provided are mg/Kg (milligrams per kilogram).
3. GRO - Gasoline Range Organic Compounds
4. DRO - Diesel Range Organic Compounds
5. MRO - Motor Oil/Lube Range Organic Compounds
6. Regulatory Limits are from 19.15.29 New Mexico Administrative Code (NMAC).
7. NA - Not Analyzed
8. ND - Not detected above laboratory method reporting limits.
9. J - Indicates that the result is less than the Method Quantitation Limit (MQL) but greater than or equal to the Sample Detection Limit (SDL).
10. U - indicates that the analysis was analyzed but not detected at or above the laboratory SDL.
11. H - Sample was prepped or analyzed beyond the specified holding time.
12. b - The compound was found in the blank and the sample.
13. Bold - Detectable concentration that exceeds laboratory method reporting limits.
14. Bold and Shaded - Reported concentration exceeds Regulatory Limits.
15. It bgs - feet below ground surface.
16. -- Indicates that no applicable regulatory limit exists for that analyte.
- * Based on anticipated depth to groundwater > 50 ft bgs.
- ** Regulatory limit for final soil reclamation. The regulatory limit for protection of sensitive receptors may be 10,000 mg/kg based on anticipated depth to groundwater > 50 ft bgs.

Appendix A

Form C-141 – Lost Tank 16 State #004

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	NDHR1917851938
District RP	1RP-5579
Facility ID	
Application ID	pDHR1917851117

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID: 4323
Contact Name: Josepha DeLeon	Contact Telephone: 575-263-0424
Contact email: jxdx@chevron.com	Incident # (assigned by OCD)
Contact mailing address: 1616 E. Bender Blvd., Hobbs, NM 88240	

Location of Release Source

Latitude 32.485096 Longitude -103.6872253
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Lost Tank 16 State #004	Site Type: Oil
Date Release Discovered: 06/05/2019	API# (if applicable): 30-025-38907

Unit Letter	Section	Township	Range	County
D	16	21S	32E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 0.9 barrels	Volume Recovered (bbls): 0.2 barrels
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 6.08 barrels	Volume Recovered (bbls): 6 barrels
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Stuffing box leak around wellhead, pumping unit and location.

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NDHR1917851938
District RP	1RP-5579
Facility ID	
Application ID	pDHR1917851117

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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.



Signature:

Date: June 18, 2019Printed Name: Joseph DeLeonTitle: Environmental Compliance Specialistemail: jxdx@chevron.comTelephone: 432-425-1528

OCD Only

Received by: Dylan Rose-CossDate: 06/27/2019

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NDHR1917851938
District RP	1RP-5579
Facility ID	
Application ID	pDHR1917851117

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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization 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.
- 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
- 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 plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the 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.

Form C-141

Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NDHR1917851938
District RP	1RP-5579
Facility ID	
Application ID	pDHR1917851117

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: Amy BarnhillTitle: Waste & Water SpecialistSignature: ABDate: 9-23-2019email: ABarnhill@Chevron.comTelephone: 432-687-7108**OCD Only**

Received by: _____

Date: _____

Appendix B

NMWRRS Water Column/Average Depth to Water



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	County	Q Q Q							X	Y	Distance	Depth	Well Depth	Water Column
			64	16	4	Sec	Tws	Rng							
C_03151	CUB	ED	4	1	4	07	21S	32E	621119	3595526*		2296	1352		
CP_00793 POD1	CP	LE	1	1	2	01	21S	32E	628932	3598270*		6490	1000		
CP_01701 POD1	CP	LE		1	3	35	21S	32E	626652	3589283		6574	840	560	280
CP_00794 POD1	CP	LE	4	1	1	18	21S	33E	629976	3594865*		6630	160		
CP_00795 POD1	CP	LE	4	1	1	18	21S	33E	629976	3594865*		6630	170		
CP_01151 POD1	CP	LE			32	22S	36E		627037	3601186		7232	823		
C_03717 POD1	C	LE	4	4	1	09	22S	32E	624094	3586365		8632	650		
C_02949 EXPL	CUB	ED	1	1	4	34	21S	31E	616140	3589231*		9209	970		
C_04144 POD1	CUB	LE	3	1	3	07	22S	32E	620240	3585844		9636	58	49	9
C_04144 POD3	CUB	LE	3	1	3	07	22S	32E	620240	3585842		9637			
C_04144 POD4	CUB	LE	3	1	3	07	22S	32E	620200	3585808		9683			
C_02953 EXPL	CUB	ED	1	3	1	16	21S	31E	613662	3594434*		9698		630	
C_04144 POD2	CUB	LE	3	1	3	07	22S	32E	620147	3585768		9737	60	55	5
C_04144 POD10	CUB	LE	2	4	4	12	22S	31E	620089	3585741		9782	67	0	67
C_04144 POD9	CUB	LE	1	3	3	07	22S	32E	620126	3585667		9840	63	0	63

Average Depth to Water:

215 feet

Minimum Depth:

0 feet

Maximum Depth:

630 feet

Record Count: 15

UTMNAD83 Radius Search (in meters):

Easting (X): 623345.95

Northing (Y): 3594965.98

Radius: 10000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Appendix C

Photographic Documentation

Client: Chevron MCBU	Project Number: 60610222
Project Name: Lost Hills 16 State #004 Producing Oil Well	Site Location: Lea County, New Mexico

Photograph No. 1	
Photographer: J. Lovely	
Date: 7/29/2019	
Comments: Overview of well pad.	

Appendix D

Field Screening Procedure for Chloride

**A GUIDE FOR REMEDIATION
OF
SALT/HYDROCARBON
IMPACTED SOIL**

Distributed by:
North Dakota Industrial Commission
Department of Mineral Resources
Bismarck, ND 58505-0840

Funded by the Oil and Gas Research Council

Technical Author
Len J. Gawel, Ph.D.
BioRem Environmental Consultants
1601 Meadowbrook Dr.
Ponca City, OK 74606
(580) 762-3805

V. Soil Analytical Tests

A. Analytical Procedure to Determine the Electrical Conductivity (EC) of Soil:

- Soil sample preparation
 - a) Mix soil sample from 0-6 inch analysis.
 - b) If soil is “wet,” reduce soil moisture content by air drying.
 - c) If soil is “damp,” proceed with analysis.
- Measure a level tablespoon of soil into 60 ml of distilled water. This will result in a 1 to 5 dilution of soil, one part soil into four parts distilled water. The volume of one level tablespoon is 15 ml.
- Shake mixture for 2 minutes. After mixing, allow sample to stand for additional 2 minutes.
- Prepare the syringe with the millipore filter adaptor and draw the fluid sample (0.5 to 1 ml) into syringe.
- Place the fluid sample onto the instrument sensor and discard the first sample load. Repeat this “flushing” procedure, then test and record the third load. **AECOM to also use chloride test strips.**
- Calculate the EC by multiplying the EC reading on the meter by five.
Instrument EC reading x 5 = soil EC
 - Wash the instrument sensor using a dedicated “wash syringe” and distilled water.
 - Record results of the test and other information and disable and discard the syringe.
 - Repeat procedure for additional depths, if necessary.

Note: Use the same fluid sample to measure the pH. No additional calculations are needed; pH is measured directly by the meter.

Note: Most EC units read as microsiemens per centimeter ($\mu\text{S}/\text{cm}$). In addition, high EC readings may read as millisiemens per centimeter (mS/cm). It should be noted one millisiemen (mS/cm) is equal to 1,000 microsiemens ($\mu\text{S}/\text{cm}$). Either unit may be used, but to compare data, choose one unit for all analyses, and convert all readings to the chosen unit. This remediation guide uses $\mu\text{S}/\text{cm}$.

A siemen is an inverse ohm (conductance = 1/resistance). The original siemen was measured through a distance of one meter. Most of the field equipment measure one centimeter unit (cm). Although not precise, one millimhos/cm is equal to one millisiemen/cm. For remediation purposes the field guide uses mS/cm or $\mu\text{S}/\text{cm}$.

Appendix E

Summary of Field Sample Collection and Screening Activities

Sample Collection and Screening
Lost Tank 16 State #004

Date	Boring ID	Depth (ft bgs)	Lithology	PID (ppm)	Conductivity Probe (mS/cm)	Chloride Test Strip (ppm Cl)	EC Meter (mS/cm)
7/29/2019	LT16-01	0-1	0-2 ft: Caliche and reddish brown silty sand (pad material)	74.3	0.164	440	4.835
		1-2		125.1	0.122	ND	2.06
		2-3		11.8	0.114	ND	0.875
		3-4	2-5 ft: Reddish brown silty sand	47.6	0.092	ND	0.68
		4-5		17.8	0.082	ND	0.76
7/29/2019	LT16-02	0-1	0-1 ft: Caliche and grayish brown sand (pad material)	0	0.022	ND	0.147
		1-2		0	0.0315	ND	0.50
		2-3	1-5 ft: Reddish brown silty sand	0	0.032	ND	0.57
		3-4		0	0.027	ND	0.46
		4-5		0	0.03	ND	0.55
7/29/2019	LT16-03	0-1	0-1 ft: Caliche and grayish brown sand (pad material)	0	0.015	ND	0.405
		1-2		0	0.014	ND	0.505
		2-3	1-5 ft: Reddish brown silty sand	0	0.018	ND	0.445
		3-4		0	0.021	ND	0.385
		4-5		0	0.015	ND	0.565
7/29/2019	LT16-04	0-1	0-1 ft: Caliche and grayish brown sand (pad material)	0	0.002	ND	0.48
		1-2		0	0.011	ND	0.44
		2-3	1-5 ft: Reddish brown silty sand	0	0.005	ND	0.565
		3-4		0	0.02	ND	0.585
		4-5		0	0.004	ND	0.495
7/29/2019	LT16-05	0-1	0-1 ft: Caliche and grayish tan sand (pad material)	0	0.021	ND	0.355
		1-2		0	0.013	ND	0.415
		2-3	1-5 ft: Reddish brown silty sand	0	0.015	ND	0.46
		3-4		0	0.022	ND	0.355
		4-5		0	0.017	ND	0.33

ND - Not Detected

Appendix F

Laboratory Analytical Report



eurofins

Environment Testing
TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-189372-1

Client Project/Site: Chevron Lost Tank 16 #004

For:

AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

Attn: Mr. Wallace Gilmore

Authorized for release by:

8/21/2019 10:36:37 AM

Jasmine Turner, Project Management Assistant I
(713)690-4444

jasmine.turner@testamericainc.com

Designee for

Sachin Kudchadkar, Senior Project Manager
(713)690-4444

sachin.kudchadkar@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Laboratory Job ID: 600-189372-1

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Appendix A

Laboratory Data Package Cover Page - Page 1 of 4

This data package is for Eurofins TestAmerica, Houston job number 600-189372-1 and consists of:

- R1 - Field chain-of-custody documentation;
- R2 - Sample identification cross-reference;
- R3 - Test reports (analytical data sheets) for each environmental sample that includes:
 - a. Items consistent with NELAC Chapter 5,
 - b. dilution factors,
 - c. preparation methods,
 - d. cleanup methods, and
 - e. if required for the project, tentatively identified compounds (TICs).
- R4 - Surrogate recovery data including:
 - a. Calculated recovery (%R), and
 - b. The laboratory's surrogate QC limits.
- R5 - Test reports/summary forms for blank samples;
- R6 - Test reports/summary forms for laboratory control samples (LCSs) including:
 - a. LCS spiking amounts,
 - b. Calculated %R for each analyte, and
 - c. The laboratory's LCS QC limits.
- R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a. Samples associated with the MS/MSD clearly identified,
 - b. MS/MSD spiking amounts,
 - c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d. Calculated %Rs and relative percent differences (RPDs), and
 - e. The laboratory's MS/MSD QC limits
- R8 - Laboratory analytical duplicate (if applicable) recovery and precision:
 - a. The amount of analyte measured in the duplicate,
 - b. The calculated RPD, and
 - c. The laboratory's QC limits for analytical duplicates.
- R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 - Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jasmine Turner, for Sachin Kudchadkar

Name (printed)



8/13/2019

Date

Senior Project Manager

Official Title (printed)

Laboratory Review Checklist: Reportable Data - Page 2 of 4

Laboratory Name:	Eurofins TestAmerica, Houston	LRC Date:	8/13/2019
Project Name:	Chevron Lost Tank 16 #004	Laboratory Job Number:	600-189372-1
Reviewer Name:	Jasmine Turner, for Sachin Kudchadkar		

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?	X				
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?	X				
		If required for the project, are TICs reported?					X
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				R05D
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			R08C
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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Laboratory Review checklist: Supporting Data - Page 3 of 4

Laboratory Name:	Eurofins TestAmerica, Houston	LRC Date:	8/13/2019
Project Name:	Chevron Lost Tank 16 #004	Laboratory Job Number:	600-189372-1
Reviewer Name:	Jasmine Turner, for Sachin Kudchadkar		

# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?	X				
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
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Laboratory Review Checklist: Exception Reports - Page 4 of 4

Laboratory Name:	Eurofins TestAmerica, Houston	LRC Date:	8/13/2019
Project Name:	Chevron Lost Tank 16 #004	Laboratory Job Number:	600-189372-1
Reviewer Name:	Jasmine Turner, for Sachin Kudchadkar		

ER # ¹	Description
R05D	Method 9056A: The method blank for preparation batch 600-271212 and analytical batch 600-271194 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.
R08C	Method 2540B: 600-189372-24 DU recovered above QC limits for RPD for the following analyte: Percent Moisture.
Misc	Sample containers were not received for samples 3 & 6. 2oz soil jar for sample 8 was also not received. Both Plastic 100mL container for Sample 27 and 2oz soil jar for Sample 16 was received empty.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

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Method 8015B GRO Detection Limit Validation**Laboratory** Eurofins TestAmerica, Canton

Preparation Method: 5030B_SolidNAC MDLV

Limit Group GCVOA 8015B GRO Sol P&T/Enc RL/MDL

Analysis Dates: 4/18/2019 to 4/24/2019

Analyte**C6-C10**

Current		Calculations							*MDLV used - 377126-7* All values recovered		
MDL	RL	Ver	Spike amount	Spike Units	/MDL	Std Mean	Dev	Reps	Edit Limts?	MDLV:	Pass
64.2	100	64.2	100.0	ug/Kg	1.6	82.9006	12.068924	4	N		
Lab ID	Anal Date	Batch	Samp	Analyst	Method	Prep Method	Equipment	Result	Units	Detected?	
240-110308-A-3-A MD	04/18/2019	377126	7	Grossman, Lucas	8015B_GRO	5030B_SolidNAC AFID		77.2098004	ug/Kg	Pass	
240-110308-A-4-A MD	04/18/2019	377126	8	Grossman, Lucas	8015B_GRO	5030B_SolidNAC AFID		74.6646849	ug/Kg	Pass	
240-110306-A-3-A MD	04/24/2019	378036	6	Grossman, Lucas	8015B_GRO	5030B_SolidNAC YPID		78.9146744	ug/Kg	Pass	
240-110306-A-4-A MD	04/24/2019	378036	7	Grossman, Lucas	8015B_GRO	5030B_SolidNAC YPID		100.813548	ug/Kg	Pass	

Detected? Pass = result was detected ; Fail = result <= 0 . If MDLV is < MDL , verify Detection or S/N ratio

MDLV: Pass = meets Spike/MDL ratio , Spike High =Spike/MDL > ratio , Spike Low = Spike < MDL

Spike/MDL ratio = 3.00

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Method 8015B DRO Detection Limit Validation**Laboratory** Eurofins TestAmerica, Canton

Preparation Method: 3546

MDLV

Limit Group GCS 8015B_C DRO 3546 Solid RL/MDL

Analysis Dates: 4/1/2019 to 7/22/2019

Analyte**Diesel**

Current		Calculations							*MDLV used - 386836-9* All values recovered				
MDL	RL	Ver	Spike amount	Units	Spike /MDL	Std Mean	Dev	Reps	Limts?	Equipment	Result	Units	Detected?
MDL	RL	MDL	50.0	mg/Kg	1.4	44.6510	5.1007347	8	N				
Lab ID	Anal Date	Batch	Samp	Analyst	Method	Prep Method	Equipment	Result	Units				
240-110302-A-7-A MD	06/18/2019	386836	9	Bolgrin, Deborah	8015B_DRO	3546	A2HP5F	54.7914449	mg/Kg	Pass			
240-110302-A-8-A MD	06/18/2019	386836	10	Bolgrin, Deborah	8015B_DRO	3546	A2HP5F	49.4051637	mg/Kg	Pass			
240-110302-A-20-A MI	06/18/2019	386887	11	Bolgrin, Deborah	8015B_DRO	3546	A2HP5R	41.8150117	mg/Kg	Pass			
240-110302-A-21-A MI	06/18/2019	386887	12	Bolgrin, Deborah	8015B_DRO	3546	A2HP5R	38.6871397	mg/Kg	Pass			
240-110302-A-9-A MD	06/18/2019	386849	11	Bolgrin, Deborah	8015B_DRO	3546	A2HP6F	44.5286106	mg/Kg	Pass			
240-110302-A-22-A MI	06/18/2019	386859	11	Bolgrin, Deborah	8015B_DRO	3546	A2HP6R	42.2728391	mg/Kg	Pass			
240-110302-A-24-A MI	06/18/2019	386849	12	Bolgrin, Deborah	8015B_DRO	3546	A2HP6F	42.1637227	mg/Kg	Pass			
240-110302-A-23-A MI	06/18/2019	386859	12	Bolgrin, Deborah	8015B_DRO	3546	A2HP6R	43.5445928	mg/Kg	Pass			

Detected? Pass = result was detected ; Fail = result <= 0 . If MDLV is < MDL , verify Detection or S/N ratio

MDLV: Pass = meets Spike/MDL ratio , Spike High =Spike/MDL > ratio , Spike Low = Spike < MDL

Spike/MDL ratio = 3.00

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Detection Check Standard

EuroFins TestAmerica, Houston

Matrix: Solid
Method: SW-846 9056 / EPA 300
Prep Method: DI Leach
Date Analyzed: 9/19/2018
Job #: 600-168589
TALS Batch: 247740
Units: mg/Kg

Analyte	Instrument #	MDL	DCS Spike	Measured Result	MQL
Bromide	CHWC11	1.005	2.000	2.980	4
Chloride	CHWC11	0.534	4.000	5.990	4
Fluoride	CHWC11	0.601	2.000	1.797	2
Nitrate as N	CHWC11	0.251	2.000	2.891	2
Nitrite as N	CHWC11	0.297	2.000	0.547	2
Sulfate	CHWC11	0.957	4.000	8.820	5

DCS = Detection Check Standard

MQL = Method Quantitation Limit

Detection Check Standard

EuroFins TestAmerica, Houston

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Matrix: Solid
Method: 8260B
Prep Method: 5030B_SolidNAC
Date Analyzed: 4/16/2019
Job #: 600-183722
TALS Batch: 262887
Units: ug/Kg

Analyte	Instrument #	MDL	DCS Spike	Measured Result	MQL
1,1,1,2-Tetrachloroethane	CHVOAMS09	1.400	5.000	2.973	5
1,1,1-Trichloroethane	CHVOAMS09	0.740	2.500	2.291	5
1,1,2,2-Tetrachloroethane	CHVOAMS09	0.870	2.500	4.436	5
1,1,2-Trichloro-1,2,2-trifluoroethane	CHVOAMS09	1.440	5.000	1.787	5
1,1,2-Trichloroethane	CHVOAMS09	0.730	2.500	2.507	40
1,1-Dichloroethane	CHVOAMS09	0.870	2.500	2.114	5
1,1-Dichloroethene	CHVOAMS09	1.220	5.000	2.697	5
1,1-Dichloropropene	CHVOAMS09	0.650	2.500	2.328	5
1,2,3-Trichlorobenzene	CHVOAMS09	0.620	2.500	4.993	5
1,2,3-Trichloropropane	CHVOAMS09	1.310	2.500	5.837	5
1,2,3-Trimethylbenzene	CHVOAMS09	1.820	2.500	0.131	5
1,2,4-Trichlorobenzene	CHVOAMS09	1.970	2.500	0.414	5
1,2,4-Trimethylbenzene	CHVOAMS09	0.920	2.500	2.310	5
1,2-Dibromo-3-Chloropropane	CHVOAMS09	2.440	2.500	1.563	5
1,2-Dichlorobenzene	CHVOAMS09	0.800	2.500	0.320	5
1,2-Dichloroethane	CHVOAMS09	0.900	2.500	2.248	5
1,2-Dichloroethene, Total	CHVOAMS09	1.900	5.000	5.000	10
1,2-Dichloropropane	CHVOAMS09	0.710	2.500	2.125	5
1,3,5-Trichlorobenzene	CHVOAMS09	2.500	5.000	2.414	5
1,3,5-Trimethylbenzene	CHVOAMS09	1.600	2.500	2.173	5
1,3-Dichlorobenzene	CHVOAMS09	0.710	2.500	2.239	5
1,3-Dichloropropane	CHVOAMS09	0.630	2.500	2.265	5
1,4-Dichlorobenzene	CHVOAMS09	0.660	2.500	2.063	5
1,4-Dioxane	CHVOAMS09	62.070	50.000	21.646	500
2,2-Dichloropropane	CHVOAMS04	1.820	2.500	2.214	5
2-Butanone (MEK)	CHVOAMS09	1.900	5.000	3.640	10
2-Chloro-1,3-butadiene	CHVOAMS09	2.710	2.500	1.799	5
2-Chloroethyl vinyl ether	CHVOAMS09	0.980	5.000	4.606	10
2-Chlorotoluene	CHVOAMS09	0.680	2.500	2.155	5
2-Hexanone	CHVOAMS09	1.010	10.000	3.867	10
2-Methyl-2-propanol	CHVOAMS09	10.000	25.000	0.029	50
2-Methyltetrahydrofuran	CHVOAMS09	5.430	12.500	14.242	50
2-Methyltetrahydropyran	CHVOAMS09	4.820	12.500	15.854	50
2-Nitropropane	CHVOAMS09	24.290	5.000	4.186	50
3-Chloro-1-propene	CHVOAMS09	1.390	2.500	2.192	5
4-Chlorotoluene	CHVOAMS09	0.830	2.500	2.305	5
4-Isopropyltoluene	CHVOAMS09	1.020	2.500	0.124	5
4-Methyl-2-pentanone (MIBK)	CHVOAMS09	1.470	5.000	0.216	10
Acetone	CHVOAMS04	1.660	5.000	4.014	10
Acetonitrile	CHVOAMS09	1.390	25.000	10.912	50
Acrolein	CHVOAMS09	6.230	12.500	2.141	25
Acrylonitrile	CHVOAMS09	5.820	25.000	3.681	50
Benzene	CHVOAMS09	0.630	2.500	2.420	5
Benzyl chloride	CHVOAMS09	2.140	2.500	0.377	5
Bromobenzene	CHVOAMS09	0.990	2.500	2.602	5
Bromoform	CHVOAMS09	1.370	2.500	1.878	5
Bromomethane	CHVOAMS09	0.830	2.500	1.965	10
Butadiene	CHVOAMS09	1.250	2.500	1.845	5
Carbon disulfide	CHVOAMS04	0.550	2.500	1.935	10

DCS = Detection Check Standard

MQL = Method Quantitation Limit

Detection Check Standard

EuroFins TestAmerica, Houston

Matrix: Solid
Method: 8260B
Prep Method: 5030B_SolidNAC
Date Analyzed: 4/16/2019
Job #: 600-183722
TALS Batch: 262887
Units: ug/Kg

Analyte	Instrument #	MDL	DCS Spike	Measured Result	MQL
Carbon tetrachloride	CHVOAMS09	1.130	2.500	2.146	5
Chlorobenzene	CHVOAMS09	0.960	2.500	2.539	5
Chlorobromomethane	CHVOAMS09	1.780	2.500	2.263	5
Chlorodibromomethane	CHVOAMS09	0.940	2.500	2.383	5
Chloroethane	CHVOAMS09	1.400	5.000	2.362	10
Chloroform	CHVOAMS09	0.660	2.500	2.440	10
Chloromethane	CHVOAMS09	1.660	5.000	1.375	10
cis-1,2-Dichloroethene	CHVOAMS09	0.830	2.500	2.473	5
cis-1,3-Dichloropropene	CHVOAMS09	0.540	2.500	2.335	5
Cyclohexane	CHVOAMS09	1.920	5.000	2.952	5
Dibromomethane	CHVOAMS09	0.750	2.500	2.411	5
Dichlorobromomethane	CHVOAMS09	0.660	2.500	2.590	5
Dichlorodifluoromethane	CHVOAMS09	1.540	5.000	1.951	5
Dichlorofluoromethane	CHVOAMS09	1.000	2.500	1.932	5
Ethyl acetate	CHVOAMS09	2.810	5.000	3.504	5
Ethyl acrylate	CHVOAMS09	10.660	2.500	1.638	20
Ethyl ether	CHVOAMS09	1.950	2.500	1.822	5
Ethyl methacrylate	CHVOAMS09	1.660	2.500	0.603	5
Ethylbenzene	CHVOAMS09	1.020	2.500	2.624	5
Ethylene Dibromide	CHVOAMS09	1.020	2.500	2.413	5
Hexachlorobutadiene	CHVOAMS09	1.130	2.500	2.306	5
Hexane	CHVOAMS09	1.230	2.500	1.859	5
Iodomethane	CHVOAMS09	2.500	5.000	3.118	5
Isobutyl alcohol	CHVOAMS04	17.160	62.500	76.211	125
Isooctane	CHVOAMS09	10.000	5.000	1.018	10
Isopropyl alcohol	CHVOAMS09	27.470	50.000	34.005	100
Isopropyl ether	CHVOAMS09	1.760	2.500	1.676	5
Isopropylbenzene	CHVOAMS09	0.920	2.500	2.104	5
Methacrylonitrile	CHVOAMS09	5.000	25.000	23.410	50
Methyl acetate	CHVOAMS09	2.910	5.000	2.835	5
Methyl methacrylate	CHVOAMS09	2.860	5.000	3.621	10
Methyl tert-butyl ether	CHVOAMS09	1.830	2.500	2.421	5
Methylcyclohexane	CHVOAMS09	1.460	2.500	2.552	5
Methylene Chloride	CHVOAMS09	2.190	5.000	2.227	10
m-Xylene & p-Xylene	CHVOAMS09	1.520	2.500	2.525	5
Naphthalene	CHVOAMS09	2.370	2.500	6.777	10
n-Butyl acetate	CHVOAMS09	2.370	5.000	2.147	5
n-Butylbenzene	CHVOAMS04	0.580	2.500	1.992	5
n-Heptane	CHVOAMS09	10.000	2.500	1.474	20
N-Propylbenzene	CHVOAMS09	0.950	2.500	2.016	5
o-Xylene	CHVOAMS09	1.130	5.000	2.960	5
Propionitrile	CHVOAMS09	2.360	50.000	18.349	5
sec-Butylbenzene	CHVOAMS09	0.700	2.500	0.193	5
Styrene	CHVOAMS09	0.710	2.500	2.925	5
tert-Butylbenzene	CHVOAMS09	0.950	2.500	2.237	5
Tetrachloroethene	CHVOAMS09	0.710	2.500	2.350	5
Tetrahydrofuran	CHVOAMS09	5.390	10.000	4.590	50
Tetrahydropyran	CHVOAMS09	5.220	12.500	13.469	50
Toluene	CHVOAMS09	1.380	2.500	2.561	5

DCS = Detection Check Standard

MQL = Method Quantitation Limit

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Detection Check Standard

EuroFins TestAmerica, Houston

Matrix: Solid
Method: 8260B
Prep Method: 5030B_SolidNAC
Date Analyzed: 4/16/2019
Job #: 600-183722
TALS Batch: 262887
Units: ug/Kg

Analyte	Instrument #	MDL	DCS Spike	Measured Result	MQL
trans-1,2-Dichloroethene	CHVOAMS09	1.140	2.500	2.470	5
trans-1,3-Dichloropropene	CHVOAMS09	0.580	2.500	2.304	5
trans-1,4-Dichloro-2-butene	CHVOAMS09	1.900	2.500	4.958	5
Trichloroethene	CHVOAMS09	1.400	2.500	2.306	5
Trichlorofluoromethane	CHVOAMS09	0.660	2.500	1.842	10
Vinyl acetate	CHVOAMS09	0.930	5.000	3.262	10
Vinyl chloride	CHVOAMS04	0.900	2.500	1.917	10
Xylenes, Total	CHVOAMS09	1.130	5.000	2.500	5

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DCS = Detection Check Standard

MQL = Method Quantitation Limit

Case Narrative

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Job ID: 600-189372-1

Laboratory: Eurofins TestAmerica, Houston**Narrative**

Job Narrative
600-189372-1

Comments

No additional comments.

Receipt

The samples were received on 7/30/2019 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

All applicable analytical narratives can be found in the TRRP Checklist section of this report.

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Method Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8015B	Gasoline Range Organics - (GC)	SW846	TAL CAN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL CAN
9056A	Anions, Ion Chromatography	SW846	TAL HOU
2540B	Percent Moisture	SM20	TAL HOU
3546	Microwave Extraction	SW846	TAL CAN
5030A	Purge and Trap	SW846	TAL CAN
5035	Closed System Purge & Trap/Laboratory Preservation	SW846	TAL HOU
DI Leach	Deionized Water Leaching Procedure (Routine)	ASTM	TAL HOU

Protocol References:

ASTM = ASTM International

SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."

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

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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Sample Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-189372-1	LT16-01-0-1	Solid	07/29/19 12:05	07/30/19 09:55	
600-189372-2	LT16-01-1-2	Solid	07/29/19 12:10	07/30/19 09:55	
600-189372-4	LT16-01-2-3	Solid	07/29/19 12:15	07/30/19 09:55	
600-189372-5	LT16-01-3-4	Solid	07/29/19 12:20	07/30/19 09:55	
600-189372-7	LT16-01-4-5	Solid	07/29/19 12:25	07/30/19 09:55	
600-189372-8	LT16-02-0-1	Solid	07/29/19 13:05	07/30/19 09:55	
600-189372-9	LT16-02-1-2	Solid	07/29/19 13:10	07/30/19 09:55	
600-189372-10	LT16-02-2-3	Solid	07/29/19 13:15	07/30/19 09:55	
600-189372-11	LT16-02-3-4	Solid	07/29/19 13:20	07/30/19 09:55	
600-189372-12	LT16-02-4-5	Solid	07/29/19 13:25	07/30/19 09:55	
600-189372-13	LT16-03-0-1	Solid	07/29/19 13:45	07/30/19 09:55	
600-189372-14	LT16-03-1-2	Solid	07/29/19 13:50	07/30/19 09:55	
600-189372-15	LT16-03-2-3	Solid	07/29/19 13:55	07/30/19 09:55	
600-189372-17	LT16-03-4-5	Solid	07/29/19 14:05	07/30/19 09:55	
600-189372-18	LT16-04-0-1	Solid	07/29/19 14:20	07/30/19 09:55	
600-189372-19	LT16-04-1-2	Solid	07/29/19 14:25	07/30/19 09:55	
600-189372-20	LT16-04-2-3	Solid	07/29/19 14:30	07/30/19 09:55	
600-189372-21	LT16-04-3-4	Solid	07/29/19 14:35	07/30/19 09:55	
600-189372-22	LT16-04-4-5	Solid	07/29/19 14:40	07/30/19 09:55	
600-189372-23	LT16-05-0-1	Solid	07/29/19 14:55	07/30/19 09:55	
600-189372-24	LT16-05-1-2	Solid	07/29/19 15:00	07/30/19 09:55	
600-189372-25	LT16-05-2-3	Solid	07/29/19 15:05	07/30/19 09:55	
600-189372-26	LT16-05-3-4	Solid	07/29/19 15:10	07/30/19 09:55	
600-189372-27	LT16-05-4-5	Solid	07/29/19 15:15	07/30/19 09:55	

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Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-01-0-1**Lab Sample ID: 600-189372-1**

Matrix: Solid

Date Collected: 07/29/19 12:05

Date Received: 07/30/19 09:55

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		40.1	5.35	mg/Kg			08/03/19 13:57	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	15.9		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	84.1		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-01-1-2**Lab Sample ID: 600-189372-2**

Matrix: Solid

Date Collected: 07/29/19 12:10

Date Received: 07/30/19 09:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000631	U	0.00501	0.000631	mg/Kg		07/30/19 11:45	07/30/19 16:48	1
Ethylbenzene	0.00102	U	0.00501	0.00102	mg/Kg		07/30/19 11:45	07/30/19 16:48	1
Toluene	0.00138	U	0.00501	0.00138	mg/Kg		07/30/19 11:45	07/30/19 16:48	1
Xylenes, Total	0.00113	U	0.00501	0.00113	mg/Kg		07/30/19 11:45	07/30/19 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		61 - 130				07/30/19 11:45	07/30/19 16:48	1
Dibromofluoromethane	84		68 - 140				07/30/19 11:45	07/30/19 16:48	1
Toluene-d8 (Surr)	94		50 - 130				07/30/19 11:45	07/30/19 16:48	1
4-Bromofluorobenzene	109		57 - 140				07/30/19 11:45	07/30/19 16:48	1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	690	J	1000	642	ug/Kg		08/08/19 08:39	08/08/19 14:18	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	87		20 - 140				08/08/19 08:39	08/08/19 14:18	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	513		47.9	33.1	mg/Kg		08/09/19 09:11	08/12/19 15:44	1
C28-C36	105		47.9	33.1	mg/Kg		08/09/19 09:11	08/12/19 15:44	1

Surrogate

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	82		26 - 125				08/09/19 09:11	08/12/19 15:44	1

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	913		40.1	5.35	mg/Kg			08/05/19 20:34	10

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13.4		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	86.6		1.0	1.0	%			07/31/19 16:57	1

Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-01-2-3
Date Collected: 07/29/19 12:15
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-4
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	455		7.95	1.06	mg/Kg			08/03/19 21:07	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.1		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	88.9		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-01-3-4

Lab Sample ID: 600-189372-5
Matrix: Solid

Date Collected: 07/29/19 12:20
Date Received: 07/30/19 09:55

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	256		3.99	0.533	mg/Kg			08/03/19 18:25	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	3.3		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	96.7		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-01-4-5

Lab Sample ID: 600-189372-7
Matrix: Solid

Date Collected: 07/29/19 12:25
Date Received: 07/30/19 09:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000713	U	0.00566	0.000713	mg/Kg		07/30/19 11:45	07/30/19 17:14	1
Ethylbenzene	0.00115	U	0.00566	0.00115	mg/Kg		07/30/19 11:45	07/30/19 17:14	1
Toluene	0.00156	U	0.00566	0.00156	mg/Kg		07/30/19 11:45	07/30/19 17:14	1
Xylenes, Total	0.00128	U	0.00566	0.00128	mg/Kg		07/30/19 11:45	07/30/19 17:14	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		61 - 130			1
Dibromofluoromethane	86		68 - 140			1
Toluene-d8 (Surr)	92		50 - 130			1
4-Bromofluorobenzene	110		57 - 140			1

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	63.1	U	98.2	63.1	ug/Kg		08/08/19 08:39	08/08/19 15:03	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	91		20 - 140			1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	38.7	J	50.4	34.8	mg/Kg		08/09/19 09:11	08/12/19 16:12	1
C28-C36	34.8	U	50.4	34.8	mg/Kg		08/09/19 09:11	08/12/19 16:12	1

Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	81		26 - 125			1



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Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-01-4-5
Date Collected: 07/29/19 12:25
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-7
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	563	b	7.98	1.07	mg/Kg			08/19/19 14:29	2

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.4		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	90.6		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-02-0-1

Lab Sample ID: 600-189372-8
Matrix: Solid

Date Collected: 07/29/19 13:05
Date Received: 07/30/19 09:55**Method: 9056A - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.7		4.01	0.535	mg/Kg			08/03/19 21:25	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.2		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	89.8		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-02-1-2

Lab Sample ID: 600-189372-9
Matrix: Solid

Date Collected: 07/29/19 13:10
Date Received: 07/30/19 09:55**Method: 9056A - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.1	b	3.98	0.532	mg/Kg			08/05/19 15:34	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	94.2		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-02-2-3

Lab Sample ID: 600-189372-10
Matrix: Solid

Date Collected: 07/29/19 13:15
Date Received: 07/30/19 09:55**General Chemistry**

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	10.3		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	89.7		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-02-3-4

Lab Sample ID: 600-189372-11
Matrix: Solid

Date Collected: 07/29/19 13:20
Date Received: 07/30/19 09:55**Method: 9056A - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.1		3.98	0.531	mg/Kg			08/03/19 18:07	1

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Client Sample Results

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Client: AECOM

Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-02-3-4**Lab Sample ID: 600-189372-11**

Matrix: Solid

Date Collected: 07/29/19 13:20

Date Received: 07/30/19 09:55

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	93.6		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-02-4-5**Lab Sample ID: 600-189372-12**

Matrix: Solid

Date Collected: 07/29/19 13:25

Date Received: 07/30/19 09:55

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.1	b	3.97	0.530	mg/Kg			08/05/19 19:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.8		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	93.2		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-03-0-1**Lab Sample ID: 600-189372-13**

Matrix: Solid

Date Collected: 07/29/19 13:45

Date Received: 07/30/19 09:55

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.49		3.99	0.533	mg/Kg			08/03/19 19:37	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.3		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	90.7		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-03-1-2**Lab Sample ID: 600-189372-14**

Matrix: Solid

Date Collected: 07/29/19 13:50

Date Received: 07/30/19 09:55

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.36		3.97	0.530	mg/Kg			08/03/19 20:31	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.9		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	98.1		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-03-2-3**Lab Sample ID: 600-189372-15**

Matrix: Solid

Date Collected: 07/29/19 13:55

Date Received: 07/30/19 09:55

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.3		3.96	0.529	mg/Kg			08/03/19 17:50	1

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Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-03-2-3
Date Collected: 07/29/19 13:55
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-15
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.8		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	98.2		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-03-4-5
Date Collected: 07/29/19 14:05
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-17
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1.26	J	3.98	0.531	mg/Kg			08/03/19 19:19	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	11.2		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	88.8		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-04-0-1
Date Collected: 07/29/19 14:20
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-18
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.1		3.98	0.532	mg/Kg			08/03/19 20:49	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.9		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	92.1		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-04-1-2
Date Collected: 07/29/19 14:25
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-19
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.7		3.97	0.530	mg/Kg			08/03/19 17:32	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.1		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	95.9		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-04-2-3
Date Collected: 07/29/19 14:30
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-20
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.7		3.98	0.531	mg/Kg			08/03/19 17:14	1

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Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-04-2-3
Date Collected: 07/29/19 14:30
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-20
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.6		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	97.4		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-04-3-4
Date Collected: 07/29/19 14:35
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-21
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.9	b	3.98	0.532	mg/Kg			08/05/19 18:54	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.6		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	97.4		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-04-4-5
Date Collected: 07/29/19 14:40
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-22
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	324	b	3.99	0.533	mg/Kg			08/05/19 18:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	9.7		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	90.3		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-05-0-1
Date Collected: 07/29/19 14:55
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-23
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.27	b	3.97	0.530	mg/Kg			08/05/19 17:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.2		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	95.8		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-05-1-2
Date Collected: 07/29/19 15:00
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-24
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.66	b	3.96	0.529	mg/Kg			08/05/19 16:54	1

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Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-05-1-2
Date Collected: 07/29/19 15:00
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-24
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	92.7		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-05-2-3
Date Collected: 07/29/19 15:05
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-25
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221	b	3.99	0.533	mg/Kg			08/05/19 16:34	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.7		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	94.3		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-05-3-4
Date Collected: 07/29/19 15:10
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-26
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8	b	3.98	0.532	mg/Kg			08/05/19 20:14	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.7		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	83.3		1.0	1.0	%			07/31/19 16:57	1

Client Sample ID: LT16-05-4-5
Date Collected: 07/29/19 15:15
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-27
Matrix: Solid

Method: 9056A - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.1	b	3.98	0.531	mg/Kg			08/05/19 18:34	1

General Chemistry

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.9		1.0	1.0	%			07/31/19 16:57	1
Percent Solids	81.1		1.0	1.0	%			07/31/19 16:57	1

Definitions/Glossary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyte was not detected at or above the SDL.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

HPLC/IC

Qualifier	Qualifier Description
b	The compound was found in the blank and sample
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

General Chemistry

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

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Surrogate Summary

Client: AECOM

Job ID: 600-189372-1

Project/Site: Chevron Lost Tank 16 #004

Method: 8260B - Volatile Organic Compounds (GC/MS)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (61-130)	DBFM (68-140)	TOL (50-130)	BFB (57-140)
600-189372-2	LT16-01-1-2	85	84	94	109
600-189372-7	LT16-01-4-5	83	86	92	110
LCS 600-270680/3	Lab Control Sample	92	94	100	119
LCSD 600-270680/4	Lab Control Sample Dup	90	92	97	115
MB 600-270680/6	Method Blank	93	87	91	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: 8015B - Gasoline Range Organics - (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT2 (20-140)	
180-93437-C-2-F MS	Matrix Spike	87	
180-93437-C-2-G MSD	Matrix Spike Duplicate	89	
600-189372-2	LT16-01-1-2	87	
600-189372-7	LT16-01-4-5	91	
LCS 240-394979/2-A	Lab Control Sample	93	
MB 240-394979/1-A	Method Blank	88	

Surrogate Legend

TFT = Trifluorotoluene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		OTPH1 (26-125)	
600-189372-2	LT16-01-1-2	82	
600-189372-7	LT16-01-4-5	81	
600-189564-A-41-D MS	Matrix Spike	64	
600-189564-A-41-E MSD	Matrix Spike Duplicate	74	
LCS 240-395221/13-A	Lab Control Sample	87	
MB 240-395221/12-A	Method Blank	71	

Surrogate Legend

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-270680/6

Matrix: Solid

Analysis Batch: 270680

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			07/30/19 10:28	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			07/30/19 10:28	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			07/30/19 10:28	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			07/30/19 10:28	1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1,2-Dichloroethane-d4 (Surr)	85		61 - 153		30753718 13/29	1			
Di: rob orthorob ethane	90		69 - 143		30753718 13/29	1			
f oluene-d9 (Surr)	81		T3 - 153		30753718 13/29	1			
4-Brob orthoro: enzene	139		T0 - 143		30753718 13/29	1			

Lab Sample ID: LCS 600-270680/3

Matrix: Solid

Analysis Batch: 270680

Analyte	Spikes	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Benzene	0.0500	0.04960		mg/Kg		99	70 - 131
Ethylbenzene	0.0500	0.04770		mg/Kg		95	66 - 130
Toluene	0.0500	0.04754		mg/Kg		95	67 - 130
Xylenes, Total	0.100	0.09539		mg/Kg		95	63 - 130
m-Xylene & p-Xylene	0.0500	0.04751		mg/Kg		95	64 - 130
o-Xylene	0.0500	0.04788		mg/Kg		96	62 - 130
Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier					
1,2-Dichloroethane-d4 (Surr)	82		61 - 153		30753718 13/29	1	
Di: rob orthorob ethane	84		69 - 143		30753718 13/29	1	
f oluene-d9 (Surr)	133		T3 - 153		30753718 13/29	1	
4-Brob orthoro: enzene	118		T0 - 143		30753718 13/29	1	

Lab Sample ID: LCSD 600-270680/4

Matrix: Solid

Analysis Batch: 270680

Analyte	Spikes	LCSD	LCSD	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifier						
Benzene	0.0500	0.04909		mg/Kg		98	70 - 131	1	30
Ethylbenzene	0.0500	0.04644		mg/Kg		93	66 - 130	3	30
Toluene	0.0500	0.04712		mg/Kg		94	67 - 130	1	30
Xylenes, Total	0.100	0.09252		mg/Kg		93	63 - 130	3	30
m-Xylene & p-Xylene	0.0500	0.04569		mg/Kg		91	64 - 130	4	30
o-Xylene	0.0500	0.04683		mg/Kg		94	62 - 130	2	30
Surrogate	LCSD	LCSD	Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1,2-Dichloroethane-d4 (Surr)	83		61 - 153		30753718 13/29	1			
Di: rob orthorob ethane	82		69 - 143		30753718 13/29	1			
f oluene-d9 (Surr)	80		T3 - 153		30753718 13/29	1			
4-Brob orthoro: enzene	11T		T0 - 143		30753718 13/29	1			

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QC Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

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

Lab Sample ID: MB 240-395221/12-A

Matrix: Solid

Analysis Batch: 395565

Surrogate	MB %Recovery	MB Qualifier	Limits
<i>o-f</i> erphenyl (Surr)	01		26 - 12T

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395221

Lab Sample ID: LCS 240-395221/13-A

Matrix: Solid

Analysis Batch: 395565

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Diesel Range Organics [C10 - C28]	250	208.7		mg/Kg		83	45 - 120
Surrogate	%Recovery	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
<i>o-f</i> erphenyl (Surr)	90	26 - 12T					

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395221
%Rec.

Lab Sample ID: 600-189564-A-41-D MS

Matrix: Solid

Analysis Batch: 395565

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Diesel Range Organics [C10 - C28]	35.2	U	241	149.6		mg/Kg		62	27 - 120
Surrogate	%Recovery	MS Result	MS Qualifier	Unit	D	%Rec	Limits		
<i>o-f</i> erphenyl (Surr)	64	26 - 12T							

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 395221
%Rec.

Lab Sample ID: 600-189564-A-41-E MSD

Matrix: Solid

Analysis Batch: 395565

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Diesel Range Organics [C10 - C28]	35.2	U	241	174.1		mg/Kg		72	27 - 120	15
Surrogate	%Recovery	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
<i>o-f</i> erphenyl (Surr)	04	26 - 12T								

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 395221
%Rec.

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 600-271100/1-A

Matrix: Solid

Analysis Batch: 271096

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.534	U	4.00	0.534	mg/Kg			08/03/19 12:10	1

Client Sample ID: Method Blank
Prep Type: Soluble

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Eurofins TestAmerica, Houston

QC Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 600-271100/2-A

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 271096

Analyte	Sample Result	Sample Qualifier	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
				Result	Qualifier				
Chloride			200	191.0		mg/Kg		95	90 - 110

Lab Sample ID: 600-189372-13 MS

Client Sample ID: LT16-03-0-1
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 271096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.
				Result	Qualifier				
Chloride	8.49		99.8	104.2		mg/Kg		96	80 - 120

Lab Sample ID: 600-189372-13 MSD

Client Sample ID: LT16-03-0-1
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 271096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.
				Result	Qualifier				
Chloride	8.49		99.8	103.0		mg/Kg		95	80 - 120

Lab Sample ID: MB 600-271212/1-A

Client Sample ID: Method Blank
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 271194

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
				Result	Unit				
Chloride	3.729	J	4.00	0.534	mg/Kg			08/05/19 14:54	1

Lab Sample ID: LCS 600-271212/2-A

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 271194

Analyte	Sample Result	Sample Qualifier	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
				Result	Qualifier				
Chloride			200	202.9		mg/Kg		101	90 - 110

Lab Sample ID: 600-189372-9 MS

Client Sample ID: LT16-02-1-2
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 271194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.
				Result	Qualifier				
Chloride	52.1	b	99.6	164.7		mg/Kg		113	80 - 120

Lab Sample ID: 600-189372-9 MSD

Client Sample ID: LT16-02-1-2
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 271194

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.
				Result	Qualifier				
Chloride	52.1	b	99.6	164.9		mg/Kg		113	80 - 120

Lab Sample ID: 600-189372-21 MS

Client Sample ID: LT16-04-3-4
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 271194

Analyte	Sample Result	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.
				Result	Qualifier				
Chloride	46.9	b	99.6	152.0		mg/Kg		106	80 - 120

Eurofins TestAmerica, Houston

QC Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

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Method: 9056A - Anions, Ion Chromatography**Lab Sample ID: 600-189372-21 MSD****Matrix: Solid****Analysis Batch: 271194**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	RPD	RPD Limit	
	Result	Qualifier	Added	Result	Qualifier						
Chloride	46.9	b	99.6	153.4		mg/Kg		107	80 - 120	1	20

Client Sample ID: LT16-04-3-4**Prep Type: Soluble****Lab Sample ID: MB 600-272312/1-A****Matrix: Solid****Analysis Batch: 272306**

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	2.456	J	4.00	0.534	mg/Kg			08/19/19 12:49	1

Client Sample ID: Method Blank**Prep Type: Soluble****Lab Sample ID: LCS 600-272312/2-A****Matrix: Solid****Analysis Batch: 272306**

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Chloride	200	197.1		mg/Kg		99	90 - 110

Client Sample ID: Lab Control Sample**Prep Type: Soluble****Lab Sample ID: 600-189986-A-3-B MS****Matrix: Solid****Analysis Batch: 272306**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	14.1	b	99.4	120.9		mg/Kg		107	80 - 120

Client Sample ID: Matrix Spike**Prep Type: Soluble****Lab Sample ID: 600-189986-A-3-C MSD****Matrix: Solid****Analysis Batch: 272306**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	RPD	RPD Limit	
	Result	Qualifier	Added	Result	Qualifier						
Chloride	14.1	b	99.4	124.9		mg/Kg		111	80 - 120	3	20

Client Sample ID: Matrix Spike Duplicate**Prep Type: Soluble****Method: 2540B - Percent Moisture****Lab Sample ID: 600-189372-13 DU****Matrix: Solid****Analysis Batch: 270876**

Analyte	Sample	Sample	Spike	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				
Percent Moisture	9.3			8.9		%		4	20
Percent Solids	90.7			91.1		%		0.4	20

Client Sample ID: LT16-03-0-1**Prep Type: Total/NA****Lab Sample ID: 600-189372-24 DU****Matrix: Solid****Analysis Batch: 270876**

Analyte	Sample	Sample	Spike	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier				
Percent Moisture	7.3			7.8	F	%		80	20
Percent Solids	92.7			92.2		%		12	20

Client Sample ID: LT16-05-1-2**Prep Type: Total/NA**

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QC Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Method: 2540B - Percent Moisture (Continued)

Lab Sample ID: 600-189372-A-1 DU

Client Sample ID: 600-189372-A-1 DU

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 270876

Analyte	Sample	Sample	DU Result	DU	Unit	D	RPD	Limit
	Result	Qualifier		Qualifier				
Percent Moisture			20.5		%			20
Percent Solids			79.5		%			20

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Unadjusted Detection Limits

Client: AECOM

Job ID: 600-189372-1

Project/Site: Chevron Lost Tank 16 #004

Method: 8260B - Volatile Organic Compounds (GC/MS)**Prep: 5035**

Analyte	MQL	MDL	Units
Benzene	0.00500	0.000630	mg/Kg
Ethylbenzene	0.00500	0.00102	mg/Kg
Toluene	0.00500	0.00138	mg/Kg
Xylenes, Total	0.00500	0.00113	mg/Kg

Method: 8015B - Gasoline Range Organics - (GC)**Prep: 5030A**

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	100	64.2	ug/Kg

Method: 8015B - Diesel Range Organics (DRO) (GC)**Prep: 3546**

Analyte	MQL	MDL	Units
C28-C36	50.0	34.6	mg/Kg
Diesel Range Organics [C10 - C28]	50.0	34.6	mg/Kg

Method: 9056A - Anions, Ion Chromatography - Soluble**Leach: DI Leach**

Analyte	MQL	MDL	Units
Chloride	4.00	0.534	mg/Kg

General Chemistry

Analyte	MQL	MDL	Units
Percent Moisture	1.0	1.0	%
Percent Solids	1.0	1.0	%

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QC Association Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

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GC/MS VOA

Analysis Batch: 270680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-2	LT16-01-1-2	Total/NA	Solid	8260B	270737
600-189372-7	LT16-01-4-5	Total/NA	Solid	8260B	270737
MB 600-270680/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-270680/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-270680/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 270737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-2	LT16-01-1-2	Total/NA	Solid	5035	
600-189372-7	LT16-01-4-5	Total/NA	Solid	5035	

GC VOA

Analysis Batch: 394975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-2	LT16-01-1-2	Total/NA	Solid	8015B	394979
600-189372-7	LT16-01-4-5	Total/NA	Solid	8015B	394979
MB 240-394979/1-A	Method Blank	Total/NA	Solid	8015B	394979
LCS 240-394979/2-A	Lab Control Sample	Total/NA	Solid	8015B	394979
180-93437-C-2-F MS	Matrix Spike	Total/NA	Solid	8015B	394979
180-93437-C-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	394979

Prep Batch: 394979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-2	LT16-01-1-2	Total/NA	Solid	5030A	
600-189372-7	LT16-01-4-5	Total/NA	Solid	5030A	
MB 240-394979/1-A	Method Blank	Total/NA	Solid	5030A	
LCS 240-394979/2-A	Lab Control Sample	Total/NA	Solid	5030A	
180-93437-C-2-F MS	Matrix Spike	Total/NA	Solid	5030A	
180-93437-C-2-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5030A	

GC Semi VOA

Prep Batch: 395221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-2	LT16-01-1-2	Total/NA	Solid	3546	
600-189372-7	LT16-01-4-5	Total/NA	Solid	3546	
MB 240-395221/12-A	Method Blank	Total/NA	Solid	3546	
LCS 240-395221/13-A	Lab Control Sample	Total/NA	Solid	3546	
600-189564-A-41-D MS	Matrix Spike	Total/NA	Solid	3546	
600-189564-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 395565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-2	LT16-01-1-2	Total/NA	Solid	8015B	395221
600-189372-7	LT16-01-4-5	Total/NA	Solid	8015B	395221
MB 240-395221/12-A	Method Blank	Total/NA	Solid	8015B	395221
LCS 240-395221/13-A	Lab Control Sample	Total/NA	Solid	8015B	395221
600-189564-A-41-D MS	Matrix Spike	Total/NA	Solid	8015B	395221
600-189564-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	395221

QC Association Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

HPLC/IC

Analysis Batch: 271096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-1	LT16-01-0-1	Soluble	Solid	9056A	271100
600-189372-4	LT16-01-2-3	Soluble	Solid	9056A	271100
600-189372-5	LT16-01-3-4	Soluble	Solid	9056A	271100
600-189372-8	LT16-02-0-1	Soluble	Solid	9056A	271100
600-189372-11	LT16-02-3-4	Soluble	Solid	9056A	271100
600-189372-13	LT16-03-0-1	Soluble	Solid	9056A	271100
600-189372-14	LT16-03-1-2	Soluble	Solid	9056A	271100
600-189372-15	LT16-03-2-3	Soluble	Solid	9056A	271100
600-189372-17	LT16-03-4-5	Soluble	Solid	9056A	271100
600-189372-18	LT16-04-0-1	Soluble	Solid	9056A	271100
600-189372-19	LT16-04-1-2	Soluble	Solid	9056A	271100
600-189372-20	LT16-04-2-3	Soluble	Solid	9056A	271100
MB 600-271100/1-A	Method Blank	Soluble	Solid	9056A	271100
LCS 600-271100/2-A	Lab Control Sample	Soluble	Solid	9056A	271100
600-189372-13 MS	LT16-03-0-1	Soluble	Solid	9056A	271100
600-189372-13 MSD	LT16-03-0-1	Soluble	Solid	9056A	271100

Leach Batch: 271100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-1	LT16-01-0-1	Soluble	Solid	DI Leach	13
600-189372-2	LT16-01-1-2	Soluble	Solid	DI Leach	14
600-189372-4	LT16-01-2-3	Soluble	Solid	DI Leach	15
600-189372-5	LT16-01-3-4	Soluble	Solid	DI Leach	16
600-189372-8	LT16-02-0-1	Soluble	Solid	DI Leach	
600-189372-11	LT16-02-3-4	Soluble	Solid	DI Leach	
600-189372-13	LT16-03-0-1	Soluble	Solid	DI Leach	
600-189372-14	LT16-03-1-2	Soluble	Solid	DI Leach	
600-189372-15	LT16-03-2-3	Soluble	Solid	DI Leach	
600-189372-17	LT16-03-4-5	Soluble	Solid	DI Leach	
600-189372-18	LT16-04-0-1	Soluble	Solid	DI Leach	
600-189372-19	LT16-04-1-2	Soluble	Solid	DI Leach	
600-189372-20	LT16-04-2-3	Soluble	Solid	DI Leach	
MB 600-271100/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-271100/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-189372-13 MS	LT16-03-0-1	Soluble	Solid	DI Leach	
600-189372-13 MSD	LT16-03-0-1	Soluble	Solid	DI Leach	

Analysis Batch: 271194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-2	LT16-01-1-2	Soluble	Solid	9056A	271100
600-189372-9	LT16-02-1-2	Soluble	Solid	9056A	271212
600-189372-12	LT16-02-4-5	Soluble	Solid	9056A	271212
600-189372-21	LT16-04-3-4	Soluble	Solid	9056A	271212
600-189372-22	LT16-04-4-5	Soluble	Solid	9056A	271212
600-189372-23	LT16-05-0-1	Soluble	Solid	9056A	271212
600-189372-24	LT16-05-1-2	Soluble	Solid	9056A	271212
600-189372-25	LT16-05-2-3	Soluble	Solid	9056A	271212
600-189372-26	LT16-05-3-4	Soluble	Solid	9056A	271212
600-189372-27	LT16-05-4-5	Soluble	Solid	9056A	271212
MB 600-271212/1-A	Method Blank	Soluble	Solid	9056A	271212
LCS 600-271212/2-A	Lab Control Sample	Soluble	Solid	9056A	271212

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QC Association Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

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HPLC/IC (Continued)

Analysis Batch: 271194 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-9 MS	LT16-02-1-2	Soluble	Solid	9056A	271212
600-189372-9 MSD	LT16-02-1-2	Soluble	Solid	9056A	271212
600-189372-21 MS	LT16-04-3-4	Soluble	Solid	9056A	271212
600-189372-21 MSD	LT16-04-3-4	Soluble	Solid	9056A	271212

Leach Batch: 271212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-9	LT16-02-1-2	Soluble	Solid	DI Leach	
600-189372-12	LT16-02-4-5	Soluble	Solid	DI Leach	
600-189372-21	LT16-04-3-4	Soluble	Solid	DI Leach	
600-189372-22	LT16-04-4-5	Soluble	Solid	DI Leach	
600-189372-23	LT16-05-0-1	Soluble	Solid	DI Leach	
600-189372-24	LT16-05-1-2	Soluble	Solid	DI Leach	
600-189372-25	LT16-05-2-3	Soluble	Solid	DI Leach	
600-189372-26	LT16-05-3-4	Soluble	Solid	DI Leach	
600-189372-27	LT16-05-4-5	Soluble	Solid	DI Leach	
MB 600-271212/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-271212/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-189372-9 MS	LT16-02-1-2	Soluble	Solid	DI Leach	
600-189372-9 MSD	LT16-02-1-2	Soluble	Solid	DI Leach	
600-189372-21 MS	LT16-04-3-4	Soluble	Solid	DI Leach	
600-189372-21 MSD	LT16-04-3-4	Soluble	Solid	DI Leach	

Analysis Batch: 272306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-7	LT16-01-4-5	Soluble	Solid	9056A	272312
MB 600-272312/1-A	Method Blank	Soluble	Solid	9056A	272312
LCS 600-272312/2-A	Lab Control Sample	Soluble	Solid	9056A	272312
600-189986-A-3-B MS	Matrix Spike	Soluble	Solid	9056A	272312
600-189986-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	9056A	272312

Leach Batch: 272312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-7	LT16-01-4-5	Soluble	Solid	DI Leach	
MB 600-272312/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-272312/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-189986-A-3-B MS	Matrix Spike	Soluble	Solid	DI Leach	
600-189986-A-3-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

General Chemistry

Analysis Batch: 270876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-1	LT16-01-0-1	Total/NA	Solid	2540B	
600-189372-2	LT16-01-1-2	Total/NA	Solid	2540B	
600-189372-4	LT16-01-2-3	Total/NA	Solid	2540B	
600-189372-5	LT16-01-3-4	Total/NA	Solid	2540B	
600-189372-7	LT16-01-4-5	Total/NA	Solid	2540B	
600-189372-8	LT16-02-0-1	Total/NA	Solid	2540B	
600-189372-9	LT16-02-1-2	Total/NA	Solid	2540B	
600-189372-10	LT16-02-2-3	Total/NA	Solid	2540B	

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QC Association Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

General Chemistry (Continued)

Analysis Batch: 270876 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-11	LT16-02-3-4	Total/NA	Solid	2540B	
600-189372-12	LT16-02-4-5	Total/NA	Solid	2540B	
600-189372-13	LT16-03-0-1	Total/NA	Solid	2540B	
600-189372-14	LT16-03-1-2	Total/NA	Solid	2540B	
600-189372-15	LT16-03-2-3	Total/NA	Solid	2540B	
600-189372-17	LT16-03-4-5	Total/NA	Solid	2540B	
600-189372-18	LT16-04-0-1	Total/NA	Solid	2540B	
600-189372-19	LT16-04-1-2	Total/NA	Solid	2540B	
600-189372-20	LT16-04-2-3	Total/NA	Solid	2540B	
600-189372-21	LT16-04-3-4	Total/NA	Solid	2540B	
600-189372-22	LT16-04-4-5	Total/NA	Solid	2540B	
600-189372-23	LT16-05-0-1	Total/NA	Solid	2540B	
600-189372-24	LT16-05-1-2	Total/NA	Solid	2540B	
600-189372-25	LT16-05-2-3	Total/NA	Solid	2540B	
600-189372-26	LT16-05-3-4	Total/NA	Solid	2540B	
600-189372-27	LT16-05-4-5	Total/NA	Solid	2540B	
600-189372-13 DU	LT16-03-0-1	Total/NA	Solid	2540B	
600-189372-24 DU	LT16-05-1-2	Total/NA	Solid	2540B	
600-189372-A-1 DU	600-189372-A-1 DU	Total/NA	Solid	2540B	

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Lab Chronicle

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-01-0-1
Date Collected: 07/29/19 12:05
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 11:00	SKR	TAL HOU
Soluble	Analysis	9056A		10	271096	08/03/19 13:57	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-01-1-2
Date Collected: 07/29/19 12:10
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			270737	07/30/19 11:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	270680	07/30/19 16:48	WS1	TAL HOU
Total/NA	Prep	5030A			394979	08/08/19 08:39	MBB	TAL CAN
Total/NA	Analysis	8015B		1	394975	08/08/19 14:18	MBB	TAL CAN
Total/NA	Prep	3546			395221	08/09/19 09:11	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	395565	08/12/19 15:44	LKG	TAL CAN
Soluble	Leach	DI Leach			271100	08/03/19 11:00	SKR	TAL HOU
Soluble	Analysis	9056A		10	271194	08/05/19 20:34	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-01-2-3
Date Collected: 07/29/19 12:15
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 12:54	SKR	TAL HOU
Soluble	Analysis	9056A		2	271096	08/03/19 21:07	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-01-3-4
Date Collected: 07/29/19 12:20
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 11:00	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 18:25	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-01-4-5
Date Collected: 07/29/19 12:25
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			270737	07/30/19 11:45	WS1	TAL HOU
Total/NA	Analysis	8260B		1	270680	07/30/19 17:14	WS1	TAL HOU

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Lab Chronicle

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-01-4-5
Date Collected: 07/29/19 12:25
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			394979	08/08/19 08:39	MBB	TAL CAN
Total/NA	Analysis	8015B		1	394975	08/08/19 15:03	MBB	TAL CAN
Total/NA	Prep	3546			395221	08/09/19 09:11	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	395565	08/12/19 16:12	LKG	TAL CAN
Soluble	Leach	DI Leach			272312	08/19/19 12:20	SKR	TAL HOU
Soluble	Analysis	9056A		2	272306	08/19/19 14:29	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-02-0-1
Date Collected: 07/29/19 13:05
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 12:54	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 21:25	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-02-1-2
Date Collected: 07/29/19 13:10
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 15:34	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-02-2-3
Date Collected: 07/29/19 13:15
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-02-3-4
Date Collected: 07/29/19 13:20
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 11:00	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 18:07	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

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Lab Chronicle

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-02-4-5
Date Collected: 07/29/19 13:25
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 19:54	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-03-0-1
Date Collected: 07/29/19 13:45
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 12:54	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 19:37	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-03-1-2
Date Collected: 07/29/19 13:50
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 12:54	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 20:31	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-03-2-3
Date Collected: 07/29/19 13:55
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 11:00	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 17:50	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-03-4-5
Date Collected: 07/29/19 14:05
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 11:00	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 19:19	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

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Lab Chronicle

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-04-0-1
Date Collected: 07/29/19 14:20
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 12:54	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 20:49	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-04-1-2
Date Collected: 07/29/19 14:25
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 11:00	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 17:32	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-04-2-3
Date Collected: 07/29/19 14:30
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271100	08/03/19 11:00	SKR	TAL HOU
Soluble	Analysis	9056A		1	271096	08/03/19 17:14	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-04-3-4
Date Collected: 07/29/19 14:35
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 18:54	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-04-4-5
Date Collected: 07/29/19 14:40
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 18:14	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

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Lab Chronicle

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-1

Client Sample ID: LT16-05-0-1**Lab Sample ID: 600-189372-23**

Matrix: Solid

Date Collected: 07/29/19 14:55

Date Received: 07/30/19 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 17:14	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-05-1-2**Lab Sample ID: 600-189372-24**

Matrix: Solid

Date Collected: 07/29/19 15:00

Date Received: 07/30/19 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 16:54	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-05-2-3**Lab Sample ID: 600-189372-25**

Matrix: Solid

Date Collected: 07/29/19 15:05

Date Received: 07/30/19 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 16:34	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-05-3-4**Lab Sample ID: 600-189372-26**

Matrix: Solid

Date Collected: 07/29/19 15:10

Date Received: 07/30/19 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 20:14	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Client Sample ID: LT16-05-4-5**Lab Sample ID: 600-189372-27**

Matrix: Solid

Date Collected: 07/29/19 15:15

Date Received: 07/30/19 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			271212	08/05/19 14:41	SKR	TAL HOU
Soluble	Analysis	9056A		1	271194	08/05/19 18:34	SKR	TAL HOU
Total/NA	Analysis	2540B		1	270876	07/31/19 16:57	AP	TAL HOU

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL HOU = Eurofins TestAmerica, Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

Eurofins TestAmerica, Houston

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Accreditation/Certification Summary

Client: AECOM

Job ID: 600-189372-1

Project/Site: Chevron Lost Tank 16 #004

Laboratory: Eurofins TestAmerica, Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-18-23	10-31-19
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
2540B		Solid	Percent Moisture
2540B		Solid	Percent Solids

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-20
California	State Program	2927	02-23-20
Connecticut	State	PH-0590	12-31-19
Connecticut	State Program	PH-0590	12-31-19
Florida	NELAP	E87225	06-30-20
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20
Georgia	State Program	N/A	02-23-20
Illinois	NELAP	200004	07-31-20
Iowa	State Program	421	06-01-21
Kansas	NELAP	E-10336	04-30-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State Program	58	02-23-20
Kentucky (WW)	State	KY98016	12-31-19
Kentucky (WW)	State Program	98016	12-31-19
Minnesota	NELAP	039-999-348	12-31-19 *
Minnesota	NELAP	OH00048	12-31-19
Minnesota (Petrofund)	State Program	3506	07-31-21
New Jersey	NELAP	OH001	06-30-20
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21
Ohio VAP	State Program	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20
Oregon	NELAP	4062	02-23-20
Pennsylvania	NELAP	68-00340	08-31-19 *
Pennsylvania	NELAP	68-00340	08-31-19
Texas	NELAP	T104704517-19-11	08-31-20
Texas	NELAP	T104704517-18-10	08-31-19
USDA	Federal	P330-16-00404	12-28-19
Virginia	NELAP	460175	09-14-19 *
Virginia	NELAP	010101	09-14-19
Washington	State	C971	01-12-20
Washington	State Program	C971	01-12-20 *
West Virginia DEP	State	210	12-31-19
West Virginia DEP	State Program	210	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Houston

Chain of Custody Record

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77046
Phone (713) 690-4444 Fax (713) 690-5646

eurofins Environment Testing
TestAmerica

Client Information		Sampler:		Lab FM: Kudchadkar, Sachin G		Carrier Tracking No(s): COC No. 600-69310-18903 1		Page: Page 1 of 1			
Client Contact:	Mr. Wallace Gilmore	Phone:	432-352-3662	E-Mail:	Sachin.kudchadkar@testamericainc.com	Job #:		Date/Time:			
Analysis Requested											
<p>Address: 19219 Katy Freeway Suite 100 City: Houston State/Zip: TX 77094 Phone: 713-520-990(Tel) 713-520-680(Fax) Email: wallace.gilmore@aecom.com Project Name: Chevron Site: Lost Tank 16 #004</p> <p>Due Date Requested:</p> <p>TAT Requested (days):</p> <p>PO #:</p> <p>W/O #:</p> <p>Project #: 60008660</p> <p>SSOW#:</p> <p>Field Filtered Sample (Yes or No):</p> <p>Perform MS/MSD (Yes or No):</p> <p>TX-1005 - TPPH 8260B - BETX Only 9056 - ORCFM-28D - Chloride 1311 - 6010B, 7470A - TCLP metals mixture</p> <p>Total Number of containers:</p> <p>Other:</p> <p>Preservation Codes:</p> <p>A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchilar H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA W - pH 4.5 Z - other (specify):</p> <p>Special Instructions/Note:</p>											
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab, B=tissue A/Air)	Matrix (Water, Sediment, Oil/Tissue A/Air)	Preservation Code:					
L716-01-0-1	7/20/19	1205	C	Solid	X						
L716-01-1-2		1216		Solid	X	X					
L716-01-1-2		1216		Solid	X	X					
L716-01-2-3		1215		Solid	X						
L716-01-3-4		1220		Solid	X						
L716-01-4-5		1225		Solid	X						
L716-01-4-5		1225		Solid	X	X					
L716-02-0-1		1305		Solid	X	X					
L716-02-1-2		1310		Solid	X						
L716-02-2-3		1315		Solid	X						
L716-02-3-4		1320		Solid	X						
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:	
Empty Kit Relinquished by:										Method of Shipment:	
Relinquished by: <u>Seth Fadrich</u>		Date/Time: 7/29/19 @ 1700		Company: AECOM		Received by: Company		Date/Time: 1/30/19 9:55		Company: Company	
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: _____		Date/Time: _____		Company: _____	
Custody Seals Intact: △ Yes △ No		Custody Seal No.: _____								Cooler Temperature(s) °C and Other Remarks: _____	

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Ver: 01/16/2019

Chain of Custody Record

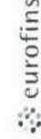
Eurofins TestAmerica, Houston

Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Ver. 01/16/2019

Chain of Custody Record

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

 eurofins | Environment Testing
TestAmerica

Client Information				Sampler:		Lab P.M. Kudchadkar, Sachin G		Carrier Tracking No(s): COC No. 600-69310-18903.1																																																																																																			
Client Contact: Mr. Wallace Gilmore		Phone: (713) 690-4444		E-Mail: sachin.kudchadkar@testamericainc.com						Page: 3																																																																																																	
Company: AECOM										Job #:																																																																																																	
Analysis Requested																																																																																																											
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Ver. 01/16/2019

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TestAmerica Houston

Loc: 600
189372

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

15cm 39

Sample Receipt Checklist

Date/Time Received:

CLIENT:

JOB NUMBER: A

UNPACKED BY: TJ

CARRIER/DRIVER:

Custody Seal Present: YES NO

Number of Coolers Received: _____

CF = correction factor

Samples received on ice? YES NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: NO

YES

Base samples are >pH 12: YES NO

Acid preserved are <pH 2:

YES NO

pH paper Lot # _____

VOA headspace acceptable (5-6mm): YES NO NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? YES NO

COMMENTS:

~~Sample 27-B container empty; 10-A empty~~

430 | 19



600-189372 Waybill

FedEx
TRK# 0221 4840 2906 6419

TUE - 30 JUL 10:30A
PRIORITY OVERNIGHT

AB LKSA

77040
TX-US IAH



#20265 07/29 567J3/E9E7/05A2

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Eurofins TestAmerica, Houston

6310 Rothway Street
Houston, TX 77040
Phone: 713-600-4444 Fax: 713-600-5546

Chain of Custody Record

Note: Since laboratory accreditation is subject to change, TestAmerica Laboratories, Inc. places the ownership of method analysis & accreditation compliance upon out subcontract laboratories. This sample is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test(s) being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I ||| V Other (specify) _____

DRAFT VERBAL AGREEMENTS I: MUNICIPALITIES

Empty Kit Relinquished by:

Belinnischen

卷之三

Relinquished by

}

Relinquished by

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Custody Seals Intact: Custody Seal No.:

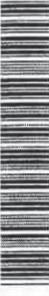
Δ Yes Δ No

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility					Login # :
Client <u>TA Houston</u>	Site Name		Cooler unpacked by:		
Cooler Received on <u>8/6/19</u>	Opened on <u>8/6/19</u>		<u>S</u>		
FedEx: 1 st Grd/Exp	UPS	FAS	Clipper	Client Drop Off	TestAmerica Courier
Receipt After-hours: Drop-off Date/Time			Storage Location		
TestAmerica Cooler # <u>16</u>	Foam Box	Client Cooler	Box	Other	
Packing material used: <u>Bubble Wrap</u>	Foam	<u>Plastic Bag</u>	None	Other	
COOLANT: <u>Wet Ice</u>	Blue Ice	Dry Ice	Water	None	
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. <u>10</u> °C Corrected Cooler Temp. <u>11</u> °C IR GUN #36 (CF +0.6°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C					
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?					
3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 10. Sufficient quantity received to perform indicated analyses? 11. Are these work share samples? If yes, Questions 12-16 have been checked at the originating laboratory.					
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# <u>HC984738</u> 13. Were VOAs on the COC? Yes No 14. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Larger than this. 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ 16. Was a LL Hg or Me Hg trip blank present? Yes No					
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other Concerning _____					
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES					Samples processed by: _____
18. SAMPLE CONDITION Sample(s) _____ were received after the recommended holding time had expired. Sample(s) _____ were received in a broken container. Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)					
19. SAMPLE PRESERVATION Sample(s) _____ were further preserved in the laboratory. Time preserved: _____ Preservative(s) added/Lot number(s): _____ VOA Sample Preservation - Date/Time VOAs Frozen: _____					

WI-NC-099



Environment Testing
TestAmerica



Chain of Custody Record

Eurofins TestAmerica, Houston

1015 Runway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Ver. 01/16/2019

Since laboratory accreditation requirements are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analytic & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation for analysis/test items, return the signed Chain of Custody, attesting to said compliance to TestAmerica Laboratories, Inc. immediately. If all required accreditations are current to date, return the signed Chain of Custody, attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

W1-NC-099

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative		Client Facility:	Client Received on: 8-13-19	Site Name:	8-13-19	Login #:	
Cooler unpacked by:							
Cooler Name:							
Feedback: 1st Grid Exp UPS FAS Clipper Client Drop Off TestAmerica Counter Other							
Receipt After-hours: Drop-off Date/Time							
TestAmerica Cooler #: TA		Foam Box	Client Cooler	Box	Storage Location		
Packing material used: Bubble Wrap, Foam Plastic Base, None, Other							
COOLANT: Water, Blue Ice, Dry Ice, Water, None							
Cooler temperature upon receipt: See Multiple Cooler Form							
IR GUN #: IR-8 (CF +0.1°C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.1 °C							
IR GUN #: IR-36 (CF +0.6°C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.1 °C							
Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____							
Were tamper/custody seals on the outside of the cooler(s) or bottle(s) signed & dated? _____							
Were tamper/custody seals intact and uncompromised? _____							
Shippers packing slip attached to the cooler(s)? _____							
Did custody papers accompany the sample(s)? _____							
Were the custody papers relinquished & signed in the appropriate place? _____							
Were all bottles arrive in good condition (Unbroken)? _____							
Did all bottles be reconciled with the COC? _____							
Were correct bottle(s) used for the test(s) indicated? _____							
Were correct bottle(s) used for the test(s) indicated? _____							
Sufficient quantity received to perform indicated analyses? _____							
Are these work share samples? _____							
If yes, Questions 12-16 have been checked at the originating laboratory.							
12. Were all preserved samples at the correct PH upon receipt? _____							
13. Were VOA's on the COC? _____							
14. Were air bubbles > 6 mm in any VOA vials? _____							
15. Were a VOA trip blank present in the collection(s)? Trip Blank Lot # _____							
16. Was a DLL Hg or Me Hg trip blank present? _____							
Comments _____							
Contracted PM _____		Date _____	by _____	via Verbal	Voice Mail	Other	
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES		Samples processed by: Ryan Cribbs					
Received two extra samples w/ a lot ac: 189372 F2 + G2 (7-21-19 @ 120PM)		and 184372 F7 + G7 (7-29-19 @ 1225PM).					
18. SAMPLE CONDITION							
Sample(s) _____ were received after the recommended holding time had expired.							
Sample(s) _____ were received with bubble > 6 mm in diameter. (Notify PM)							
Sample(s) _____ were received in a broken container.							
Sample(s) _____ were further preserved in the laboratory.							
VOA Sample Preservation - Date/Time VOAs Frozen:							
Time preserved: _____ Preservative(s) added/Lot number(s): _____							

**Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility**

Login # : _____

Client ETA Site Name _____ Cooler unpacked by: Ryan Cribbler
 Cooler Received on 8-13-19 Opened on 8-13-19
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # 74 Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.1 °C
 IR GUN #36 (CF +0.6°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples?
 If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC984738
13. Were VOAs on the COC?
14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Ryan Cribbler

*Received two extra samples not on COC: 189372 F2 + G2 (7-29-19 @ 12:00 PM)
 and 189372 F7 + G7 (7-29-19 @ 12:25 PM).*

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

WI-NC-099

Login Sample Receipt Checklist

Client: AECOM

Job Number: 600-189372-1

Login Number: 189372**List Source: Eurofins TestAmerica, Houston****List Number: 1****Creator: Taylor, Jacquelyn R**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

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eurofins

Environment Testing
TestAmerica

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ANALYTICAL REPORT

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Tel: (713)690-4444

Laboratory Job ID: 600-189372-2

Client Project/Site: Chevron Lost Tank 16 #004

For:
AECOM
19219 Katy Freeway
Suite 100
Houston, Texas 77094

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Authorized for release by:
9/10/2019 9:15:22 AM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Laboratory Job ID: 600-189372-2

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Case Narrative

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Job ID: 600-189372-2**Laboratory: Eurofins TestAmerica, Houston****Narrative****Job Narrative
600-189372-2****Comments**

No additional comments.

Receipt

The samples were received on 7/30/2019 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

Receipt Exceptions

Sample 27's plastic 100mL container was received empty, Sample 16's 2oz soil jar received empty.

Did not receive containers for samples 3 & 6. Did not receive 2oz soil jar for sample 8.

GC VOA

Method(s) 8015B: The following samples were received outside of holding time: LT16-02-0-1 (600-189372-8), LT16-02-4-5 (600-189372-12), LT16-03-1-2 (600-189372-14), LT16-03-4-5 (600-189372-17), LT16-04-0-1 (600-189372-18), LT16-04-4-5 (600-189372-22) and LT16-05-0-1 (600-189372-23).

Method(s) 8015B: The following samples were received with less than 2 days remaining on the holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: LT16-05-4-5 (600-189372-27).

Method(s) 8015B: The surrogate in the continuing calibration verification (CCV) failed criteria low at 21.1%. The GRO ranges in the CCV passed criteria and all the samples passed surrogate. After careful evaluation the data is reported.

(CCV 240-396273/3)

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

GC Semi VOA

Method(s) 8015B: The following samples were prepared outside of preparation holding time due to lab oversight : LT16-02-4-5 (600-189372-12), LT16-03-1-2 (600-189372-14), LT16-03-4-5 (600-189372-17), LT16-04-0-1 (600-189372-18), LT16-04-4-5 (600-189372-22), LT16-05-0-1 (600-189372-23) and LT16-05-4-5 (600-189372-27).

Method(s) 8015B: The following samples were received with less than 2 days remaining on the holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: LT16-02-0-1 (600-189372-8).

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

Organic Prep

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

VOA Prep

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

Method Summary

Client: AECOM
 Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Method	Method Description	Protocol	Laboratory
8015B	Gasoline Range Organics - (GC)	SW846	TAL CAN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL CAN
3546	Microwave Extraction	SW846	TAL CAN
5030A	Purge and Trap	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
600-189372-8	LT16-02-0-1	Solid	07/29/19 13:05	07/30/19 09:55	
600-189372-12	LT16-02-4-5	Solid	07/29/19 13:25	07/30/19 09:55	
600-189372-14	LT16-03-1-2	Solid	07/29/19 13:50	07/30/19 09:55	
600-189372-17	LT16-03-4-5	Solid	07/29/19 14:05	07/30/19 09:55	
600-189372-18	LT16-04-0-1	Solid	07/29/19 14:20	07/30/19 09:55	
600-189372-22	LT16-04-4-5	Solid	07/29/19 14:40	07/30/19 09:55	
600-189372-23	LT16-05-0-1	Solid	07/29/19 14:55	07/30/19 09:55	
600-189372-27	LT16-05-4-5	Solid	07/29/19 15:15	07/30/19 09:55	

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Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Client Sample ID: LT16-02-0-1
Date Collected: 07/29/19 13:05
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-8
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	63.6	U H	99.0	63.6	ug/Kg	D	08/13/19 10:26	08/13/19 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	86		20 - 140				08/13/19 10:26	08/13/19 20:27	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.2	U H	49.4	34.2	mg/Kg	D	08/15/19 12:00	08/16/19 15:54	1
C28-C36	34.2	U H	49.4	34.2	mg/Kg		08/15/19 12:00	08/16/19 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	77		26 - 125				08/15/19 12:00	08/16/19 15:54	1

Client Sample ID: LT16-02-4-5**Lab Sample ID: 600-189372-12****Matrix: Solid**

Date Collected: 07/29/19 13:25
Date Received: 07/30/19 09:55

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	64.2	U H	100	64.2	ug/Kg	D	08/13/19 10:26	08/13/19 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	89		20 - 140				08/13/19 10:26	08/13/19 21:13	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	35.6	U H	51.4	35.6	mg/Kg	D	08/14/19 12:05	08/15/19 19:42	1
C28-C36	35.6	U H	51.4	35.6	mg/Kg		08/14/19 12:05	08/15/19 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	80		26 - 125				08/14/19 12:05	08/15/19 19:42	1

Client Sample ID: LT16-03-1-2**Lab Sample ID: 600-189372-14****Matrix: Solid**

Date Collected: 07/29/19 13:50
Date Received: 07/30/19 09:55

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	63.2	U H	98.4	63.2	ug/Kg	D	08/13/19 10:26	08/13/19 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	90		20 - 140				08/13/19 10:26	08/13/19 23:27	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	33.9	U H	49.0	33.9	mg/Kg	D	08/14/19 12:05	08/15/19 20:39	1
C28-C36	33.9	U H	49.0	33.9	mg/Kg		08/14/19 12:05	08/15/19 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	73		26 - 125				08/14/19 12:05	08/15/19 20:39	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Client Sample ID: LT16-03-4-5
Date Collected: 07/29/19 14:05
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-17
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	63.3	U H	98.6	63.3	ug/Kg	D	08/13/19 10:26	08/14/19 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	89		20 - 140				08/13/19 10:26	08/14/19 00:11	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	33.6	U H	48.5	33.6	mg/Kg	D	08/14/19 12:05	08/15/19 21:07	1
C28-C36	33.6	U H	48.5	33.6	mg/Kg		08/14/19 12:05	08/15/19 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	71		26 - 125				08/14/19 12:05	08/15/19 21:07	1

Client Sample ID: LT16-04-0-1**Lab Sample ID: 600-189372-18****Date Collected: 07/29/19 14:20****Matrix: Solid****Date Received: 07/30/19 09:55****Method: 8015B - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	63.1	U H	98.2	63.1	ug/Kg	D	08/13/19 10:26	08/14/19 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	80		20 - 140				08/13/19 10:26	08/14/19 00:54	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	35.4	U H	51.2	35.4	mg/Kg	D	08/14/19 12:05	08/15/19 21:35	1
C28-C36	35.4	U H	51.2	35.4	mg/Kg		08/14/19 12:05	08/15/19 21:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	74		26 - 125				08/14/19 12:05	08/15/19 21:35	1

Client Sample ID: LT16-04-4-5**Lab Sample ID: 600-189372-22****Date Collected: 07/29/19 14:40****Matrix: Solid****Date Received: 07/30/19 09:55****Method: 8015B - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	64.2	U H	100	64.2	ug/Kg	D	08/13/19 10:26	08/14/19 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	91		20 - 140				08/13/19 10:26	08/14/19 01:36	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.5	U H	49.9	34.5	mg/Kg	D	08/14/19 12:05	08/15/19 22:03	1
C28-C36	34.5	U H	49.9	34.5	mg/Kg		08/14/19 12:05	08/15/19 22:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	66		26 - 125				08/14/19 12:05	08/15/19 22:03	1

Eurofins TestAmerica, Houston

Client Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Client Sample ID: LT16-05-0-1
Date Collected: 07/29/19 14:55
Date Received: 07/30/19 09:55

Lab Sample ID: 600-189372-23
Matrix: Solid

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	63.3	U H	98.6	63.3	ug/Kg	D	08/13/19 10:26	08/14/19 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	88		20 - 140				08/13/19 10:26	08/14/19 02:19	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.1	U H	49.3	34.1	mg/Kg	D	08/14/19 12:05	08/15/19 22:30	1
C28-C36	34.1	U H	49.3	34.1	mg/Kg		08/14/19 12:05	08/15/19 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	70		26 - 125				08/14/19 12:05	08/15/19 22:30	1

Client Sample ID: LT16-05-4-5**Lab Sample ID: 600-189372-27****Date Collected: 07/29/19 15:15****Matrix: Solid****Date Received: 07/30/19 09:55****Method: 8015B - Gasoline Range Organics - (GC)**

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	66.0	U H	103	66.0	ug/Kg	D	08/15/19 08:28	08/15/19 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluorotoluene (Surr)	90		20 - 140				08/15/19 08:28	08/15/19 20:21	1

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

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.7	U H	50.2	34.7	mg/Kg	D	08/14/19 12:05	08/15/19 22:58	1
C28-C36	34.7	U H	50.2	34.7	mg/Kg		08/14/19 12:05	08/15/19 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	81		26 - 125				08/14/19 12:05	08/15/19 22:58	1

Definitions/Glossary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

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Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Say we das wrewwe. or analRue. beRon. the sweci@. hol. ing tiy e
q	AnalRe das not . ectecte. at or above the SLDm

GC Semi VOA

Qualifier	Qualifier Description
U	Say we das wrewwe. or analRue. beRon. the sweci@. hol. ing tiy e
q	AnalRe das not . ectecte. at or above the SLDm

Glossary

Abbreviation

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

p	Liste. f n. er the FDFcolf y n to . esignate that the resf lt is reworte. on a . rRd eight basis
x □	Percent □ ecoverR
C" L	Contains " ree Li% i.
CN"	Contains No " ree Li% i.
DE□	Df wlicate Error □ atio (nory aliae. absolf te . iQrencez
Dil " ac	Dilf tio " actor
DL	Detection Liy it (DoD/DOEZ
DL) □ A) □ E) IN	In. icates a Dilf tio □ e-analRsis □ e-e, traction) or a . . itional Initial y etals/anion analRsis oQhe say we
DLC	Decision Level Concentration (□ a. iochey istrRz
EDL	Estiy ate. Detection Liy it (Dio, inz
LOD	Liy it oQDetection (DoD/DOEZ
LOH	Liy it oQHf antitation (DoD/DOEZ
MDA	Miniy f y Detectable ActivitR(□ a. iochey istrRz
MDC	Miniy f y Detectable Concentration (□ a. iochey istrRz
MDL	Metho. Detection Liy it
ML	Miniy f y Level (Dio, inz
NC	Not Calcf late.
ND	Not Detecte. at the reworting liy it (or MDL or EDL iQshod nz
PHL	Practical Hf antitation Liy it
HC	Hf alitRControl
□ E□	□ elative Error □ atio (□ a. iochey istrRz
□ L	□ ewortng Liy it or □ e% este. Liy it (□ a. iochey istrRz
□ PD	□ elative Percent DiQrence) a y easf re oQthe relative . iQrence betd een td o woint
TE"	To, icitRE% ivalent " actor (Dio, inz
TEH	To, icitRE% ivalent Hf otient (Dio, inz

Surrogate Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Method: 8015B - Gasoline Range Organics - (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TFT2 (20-140)		
600-189372-8	LT16-02-0-1	86		
600-189372-12	LT16-02-4-5	89		
600-189372-14	LT16-03-1-2	90		
600-189372-17	LT16-03-4-5	89		
600-189372-18	LT16-04-0-1	80		
600-189372-22	LT16-04-4-5	91		
600-189372-23	LT16-05-0-1	88		
600-189372-27	LT16-05-4-5	90		
600-189372-27 MS	LT16-05-4-5	89		
600-189372-27 MSD	LT16-05-4-5	90		
LCS 240-395759/2-A	Lab Control Sample	90		
LCS 240-396150/2-B	Lab Control Sample	88		
MB 240-395759/1-A	Method Blank	82		
MB 240-396150/1-B	Method Blank	85		

Surrogate Legend

TFT = Trifluorotoluene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)**Matrix: Solid****Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		OTPH1 (26-125)		
600-189372-8	LT16-02-0-1	77		
600-189372-8 MS	LT16-02-0-1	79		
600-189372-8 MSD	LT16-02-0-1	77		
600-189372-12	LT16-02-4-5	80		
600-189372-14	LT16-03-1-2	73		
600-189372-17	LT16-03-4-5	71		
600-189372-18	LT16-04-0-1	74		
600-189372-22	LT16-04-4-5	66		
600-189372-23	LT16-05-0-1	70		
600-189372-27	LT16-05-4-5	81		
600-189491-G-7-B MS	Matrix Spike	82		
600-189491-G-7-C MSD	Matrix Spike Duplicate	66		
LCS 240-396000/16-A	Lab Control Sample	80		
LCS 240-396217/2-A	Lab Control Sample	78		
MB 240-396000/15-A	Method Blank	69		
MB 240-396217/1-A	Method Blank	65		

Surrogate Legend

OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 240-395759/1-A

Matrix: Solid

Analysis Batch: 395776

Analyte	MB		MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics [C6 - C10]	64.2	U	100	64.2	ug/Kg		08/13/19 10:26	08/13/19 12:05	1
Surrogate									
Trifluorotoluene (Surr)									
		MB	MB						
		%Recovery	Qualifier	Limits				Prepared	
		86		62 0- 12				Analyzed	
								Dil Fac	

Lab Sample ID: LCS 240-395759/2-A

Matrix: Solid

Analysis Batch: 395776

Analyte	Spike		LCS	LCS	Unit	D	%Rec.	Limits	
	Result	Added							
Gasoline Range Organics [C6 - C10]		800	744.1	Qualifier	ug/Kg		93	75 - 126	
Surrogate									
Trifluorotoluene (Surr)									
		LCS	LCS						
		%Recovery	Qualifier	Limits					
		32		62 0- 12					

Lab Sample ID: MB 240-396150/1-B

Matrix: Solid

Analysis Batch: 396273

Analyte	MB		MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics [C6 - C10]	64.2	U	100	64.2	ug/Kg		08/15/19 08:28	08/15/19 18:42	1
Surrogate									
Trifluorotoluene (Surr)									
		MB	MB					Prepared	
		%Recovery	Qualifier	Limits				Analyzed	
		8:		62 0- 12				Dil Fac	

Lab Sample ID: LCS 240-396150/2-B

Matrix: Solid

Analysis Batch: 396273

Analyte	Spike		LCS	LCS	Unit	D	%Rec.	Limits	
	Result	Added							
Gasoline Range Organics [C6 - C10]		800	802.5	Qualifier	ug/Kg		100	75 - 126	
Surrogate									
Trifluorotoluene (Surr)									
		LCS	LCS						
		%Recovery	Qualifier	Limits					
		88		62 0- 12					

Lab Sample ID: 600-189372-27 MS

Matrix: Solid

Analysis Batch: 396273

Analyte	Sample		Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier							
Gasoline Range Organics [C6 - C10]	66.0	U H	803	689.0	ug/Kg		86	10 - 134	
Surrogate									
Trifluorotoluene (Surr)									
		MS	MS						
		%Recovery	Qualifier	Limits					
		83		62 0- 12					

Eurofins TestAmerica, Houston

QC Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 600-189372-27 MSD

Matrix: Solid

Analysis Batch: 396273

Client Sample ID: LT16-05-4-5

Prep Type: Total/NA

Prep Batch: 396150

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	66.0	U H	777	621.1		ug/Kg		80	10 - 134	10	40
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Trifluorotoluene (Surr)	32		62 0 - 12								

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

Lab Sample ID: MB 240-396000/15-A

Matrix: Solid

Analysis Batch: 396215

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 396000

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10 - C28]	34.6	U	50.0	34.6	mg/Kg		08/14/19 12:05	08/15/19 15:23	1
C28-C36	34.6	U	50.0	34.6	mg/Kg		08/14/19 12:05	08/15/19 15:23	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> Terphenyl (Surr)	73		67 0 - 6:				284 14 3 - 62:	284 : 4 3 - : 96/	-

Lab Sample ID: LCS 240-396000/16-A

Matrix: Solid

Analysis Batch: 396215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 396000

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
Diesel Range Organics [C10 - C28]			250	192.7		mg/Kg		77	45 - 120	
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
<i>o</i> Terphenyl (Surr)	82		67 0 - 6:							

Lab Sample ID: 600-189491-G-7-B MS

Matrix: Solid

Analysis Batch: 396215

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 396000

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
Diesel Range Organics [C10 - C28]	33.7	U	260	201.7		mg/Kg		78	27 - 120	
Surrogate	MS %Recovery	MS Qualifier	Limits							
<i>o</i> Terphenyl (Surr)	86		67 0 - 6:							

Lab Sample ID: 600-189491-G-7-C MSD

Matrix: Solid

Analysis Batch: 396215

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 396000

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	
Diesel Range Organics [C10 - C28]	33.7	U	239	141.1		mg/Kg		59	27 - 120	35	40

Eurofins TestAmerica, Houston

QC Sample Results

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

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

Lab Sample ID: 600-189491-G-7-C MSD

Matrix: Solid

Analysis Batch: 396215

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 396000

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
<i>oO</i> Terphenyl (Sur)	77		67 0- 6:

Lab Sample ID: MB 240-396217/1-A

Matrix: Solid

Analysis Batch: 396355

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 396217

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics [C10 - C28]	34.6	U	50.0	34.6	mg/Kg	08/15/19 12:00	08/16/19 14:58		1
C28-C36	34.6	U	50.0	34.6	mg/Kg	08/15/19 12:00	08/16/19 14:58		1
Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac			
<i>oO</i> Terphenyl (Sur)	7:			284 4 3 - 6922	284 74 3 - 19 8				

Lab Sample ID: LCS 240-396217/2-A

Matrix: Solid

Analysis Batch: 396355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 396217

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Diesel Range Organics [C10 - C28]	250	192.5		mg/Kg	77	45 - 120	
<i>oO</i> Terphenyl (Sur)	58		67 0- 6:				

Lab Sample ID: 600-189372-8 MS

Matrix: Solid

Analysis Batch: 396355

Client Sample ID: LT16-02-0-1

Prep Type: Total/NA

Prep Batch: 396217

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Diesel Range Organics [C10 - C28]	34.2	U H	245	190.4		mg/Kg	78	27 - 120	
<i>oO</i> Terphenyl (Sur)	53		67 0- 6:						

Lab Sample ID: 600-189372-8 MSD

Matrix: Solid

Analysis Batch: 396355

Client Sample ID: LT16-02-0-1

Prep Type: Total/NA

Prep Batch: 396217

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD
	Result	Qualifier	Added	Result	Qualifier					
Diesel Range Organics [C10 - C28]	34.2	U H	242	185.4		mg/Kg	77	27 - 120		3
<i>oO</i> Terphenyl (Sur)	55		67 0- 6:							40

Eurofins TestAmerica, Houston

Unadjusted Detection Limits

Client: AECOM

Job ID: 600-189372-2

Project/Site: Chevron Lost Tank 16 #004

Method: 8015B - Gasoline Range Organics - (GC)

Prep: 5030A

Analyte	MQL	MDL	Units
Gasoline Range Organics [C6 - C10]	100	64.2	ug/Kg

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

Prep: 3546

Analyte	MQL	MDL	Units
C28-C36	50.0	34.6	mg/Kg
Diesel Range Organics [C10 - C28]	50.0	34.6	mg/Kg

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QC Association Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

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GC VOA

Prep Batch: 395759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-8	LT16-02-0-1	Total/NA	Solid	5030A	
600-189372-12	LT16-02-4-5	Total/NA	Solid	5030A	
600-189372-14	LT16-03-1-2	Total/NA	Solid	5030A	
600-189372-17	LT16-03-4-5	Total/NA	Solid	5030A	
600-189372-18	LT16-04-0-1	Total/NA	Solid	5030A	
600-189372-22	LT16-04-4-5	Total/NA	Solid	5030A	
600-189372-23	LT16-05-0-1	Total/NA	Solid	5030A	
MB 240-395759/1-A	Method Blank	Total/NA	Solid	5030A	
LCS 240-395759/2-A	Lab Control Sample	Total/NA	Solid	5030A	

Analysis Batch: 395776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-8	LT16-02-0-1	Total/NA	Solid	8015B	395759
600-189372-12	LT16-02-4-5	Total/NA	Solid	8015B	395759
600-189372-14	LT16-03-1-2	Total/NA	Solid	8015B	395759
600-189372-17	LT16-03-4-5	Total/NA	Solid	8015B	395759
600-189372-18	LT16-04-0-1	Total/NA	Solid	8015B	395759
600-189372-22	LT16-04-4-5	Total/NA	Solid	8015B	395759
600-189372-23	LT16-05-0-1	Total/NA	Solid	8015B	395759
MB 240-395759/1-A	Method Blank	Total/NA	Solid	8015B	395759
LCS 240-395759/2-A	Lab Control Sample	Total/NA	Solid	8015B	395759

Prep Batch: 396150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-27	LT16-05-4-5	Total/NA	Solid	5030A	
MB 240-396150/1-B	Method Blank	Total/NA	Solid	5030A	
LCS 240-396150/2-B	Lab Control Sample	Total/NA	Solid	5030A	
600-189372-27 MS	LT16-05-4-5	Total/NA	Solid	5030A	
600-189372-27 MSD	LT16-05-4-5	Total/NA	Solid	5030A	

Analysis Batch: 396273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-27	LT16-05-4-5	Total/NA	Solid	8015B	396150
MB 240-396150/1-B	Method Blank	Total/NA	Solid	8015B	396150
LCS 240-396150/2-B	Lab Control Sample	Total/NA	Solid	8015B	396150
600-189372-27 MS	LT16-05-4-5	Total/NA	Solid	8015B	396150
600-189372-27 MSD	LT16-05-4-5	Total/NA	Solid	8015B	396150

GC Semi VOA

Prep Batch: 396000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-12	LT16-02-4-5	Total/NA	Solid	3546	
600-189372-14	LT16-03-1-2	Total/NA	Solid	3546	
600-189372-17	LT16-03-4-5	Total/NA	Solid	3546	
600-189372-18	LT16-04-0-1	Total/NA	Solid	3546	
600-189372-22	LT16-04-4-5	Total/NA	Solid	3546	
600-189372-23	LT16-05-0-1	Total/NA	Solid	3546	
600-189372-27	LT16-05-4-5	Total/NA	Solid	3546	
MB 240-396000/15-A	Method Blank	Total/NA	Solid	3546	
LCS 240-396000/16-A	Lab Control Sample	Total/NA	Solid	3546	

Eurofins TestAmerica, Houston

QC Association Summary

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

GC Semi VOA (Continued)

Prep Batch: 396000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189491-G-7-B MS	Matrix Spike	Total/NA	Solid	3546	
600-189491-G-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 396215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-12	LT16-02-4-5	Total/NA	Solid	8015B	396000
600-189372-14	LT16-03-1-2	Total/NA	Solid	8015B	396000
600-189372-17	LT16-03-4-5	Total/NA	Solid	8015B	396000
600-189372-18	LT16-04-0-1	Total/NA	Solid	8015B	396000
600-189372-22	LT16-04-4-5	Total/NA	Solid	8015B	396000
600-189372-23	LT16-05-0-1	Total/NA	Solid	8015B	396000
600-189372-27	LT16-05-4-5	Total/NA	Solid	8015B	396000
MB 240-396000/15-A	Method Blank	Total/NA	Solid	8015B	396000
LCS 240-396000/16-A	Lab Control Sample	Total/NA	Solid	8015B	396000
600-189491-G-7-B MS	Matrix Spike	Total/NA	Solid	8015B	396000
600-189491-G-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	396000

Prep Batch: 396217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-8	LT16-02-0-1	Total/NA	Solid	3546	
MB 240-396217/1-A	Method Blank	Total/NA	Solid	3546	
LCS 240-396217/2-A	Lab Control Sample	Total/NA	Solid	3546	
600-189372-8 MS	LT16-02-0-1	Total/NA	Solid	3546	
600-189372-8 MSD	LT16-02-0-1	Total/NA	Solid	3546	

Analysis Batch: 396355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-189372-8	LT16-02-0-1	Total/NA	Solid	8015B	396217
MB 240-396217/1-A	Method Blank	Total/NA	Solid	8015B	396217
LCS 240-396217/2-A	Lab Control Sample	Total/NA	Solid	8015B	396217
600-189372-8 MS	LT16-02-0-1	Total/NA	Solid	8015B	396217
600-189372-8 MSD	LT16-02-0-1	Total/NA	Solid	8015B	396217

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Lab Chronicle

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Client Sample ID: LT16-08-0-1
Date Collected: 02/83/13 17:05
Date Received: 02/70/13 03:55

Lab Sample ID: 600-193728-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			395759	08/13/19 10:26	MBB	TAL CAN
Total/NA	Analysis	8015B		1	395776	08/13/19 20:27	MBB	TAL CAN
Total/NA	Prep	3546			396217	08/15/19 12:00	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	396355	08/16/19 15:54	LKG	TAL CAN

Client Sample ID: LT16-08-4-5
Date Collected: 02/83/13 17:85
Date Received: 02/70/13 03:55

Lab Sample ID: 600-193728-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			395759	08/13/19 10:26	MBB	TAL CAN
Total/NA	Analysis	8015B		1	395776	08/13/19 21:13	MBB	TAL CAN
Total/NA	Prep	3546			396000	08/14/19 12:05	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	396215	08/15/19 19:42	LKG	TAL CAN

Client Sample ID: LT16-07-1-8
Date Collected: 02/83/13 17:50
Date Received: 02/70/13 03:55

Lab Sample ID: 600-193728-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			395759	08/13/19 10:26	MBB	TAL CAN
Total/NA	Analysis	8015B		1	395776	08/13/19 23:27	MBB	TAL CAN
Total/NA	Prep	3546			396000	08/14/19 12:05	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	396215	08/15/19 20:39	LKG	TAL CAN

Client Sample ID: LT16-07-4-5
Date Collected: 02/83/13 14:05
Date Received: 02/70/13 03:55

Lab Sample ID: 600-193728-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			395759	08/13/19 10:26	MBB	TAL CAN
Total/NA	Analysis	8015B		1	395776	08/14/19 00:11	MBB	TAL CAN
Total/NA	Prep	3546			396000	08/14/19 12:05	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	396215	08/15/19 21:07	LKG	TAL CAN

Client Sample ID: LT16-04-0-1
Date Collected: 02/83/13 14:80
Date Received: 02/70/13 03:55

Lab Sample ID: 600-193728-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			395759	08/13/19 10:26	MBB	TAL CAN
Total/NA	Analysis	8015B		1	395776	08/14/19 00:54	MBB	TAL CAN
Total/NA	Prep	3546			396000	08/14/19 12:05	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	396215	08/15/19 21:35	LKG	TAL CAN

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Lab Chronicle

Client: AECOM
Project/Site: Chevron Lost Tank 16 #004

Job ID: 600-189372-2

Client Sample ID: LT16-04-4-5
Date Collected: 02/83/13 14:40
Date Received: 02/70/13 03:55

Lab Sample ID: 600-193728-88
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			395759	08/13/19 10:26	MBB	TAL CAN
Total/NA	Analysis	8015B		1	395776	08/14/19 01:36	MBB	TAL CAN
Total/NA	Prep	3546			396000	08/14/19 12:05	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	396215	08/15/19 22:03	LKG	TAL CAN

Client Sample ID: LT16-05-0-1
Date Collected: 02/83/13 14:55
Date Received: 02/70/13 03:55

Lab Sample ID: 600-193728-87
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			395759	08/13/19 10:26	MBB	TAL CAN
Total/NA	Analysis	8015B		1	395776	08/14/19 02:19	MBB	TAL CAN
Total/NA	Prep	3546			396000	08/14/19 12:05	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	396215	08/15/19 22:30	LKG	TAL CAN

Client Sample ID: LT16-05-4-5
Date Collected: 02/83/13 15:15
Date Received: 02/70/13 03:55

Lab Sample ID: 600-193728-82
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030A			396150	08/15/19 08:28	KMG	TAL CAN
Total/NA	Analysis	8015B		1	396273	08/15/19 20:21	LKG	TAL CAN
Total/NA	Prep	3546			396000	08/14/19 12:05	ZMF	TAL CAN
Total/NA	Analysis	8015B		1	396215	08/15/19 22:58	LKG	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Accreditation/Certification Summary

Client: AECOM

Job ID: 600-189372-2

Project/Site: Chevron Lost Tank 16 #004

Laboratory: Eurofins TestAmerica, Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704223-18-23	10-31-19

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-20
California	State Program	2927	02-23-20
Connecticut	State	PH-0590	12-31-19
Connecticut	State Program	PH-0590	12-31-19
Florida	NELAP	E87225	06-30-20
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20
Georgia	State Program	N/A	02-23-20
Illinois	NELAP	200004	07-31-20
Illinois	NELAP	004498	07-31-20
Iowa	State Program	421	06-01-21
Kansas	NELAP	E-10336	04-30-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State Program	58	02-23-20
Kentucky (WW)	State	KY98016	12-31-19
Kentucky (WW)	State Program	98016	12-31-19
Minnesota	NELAP	039-999-348	12-31-19 *
Minnesota	NELAP	OH00048	12-31-19
Minnesota (Petrofund)	State Program	3506	07-31-21
New Jersey	NELAP	OH001	06-30-20
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21
Ohio VAP	State Program	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20
Oregon	NELAP	4062	02-23-20
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-19-11	08-31-20
USDA	Federal	P330-16-00404	12-28-19
Virginia	NELAP	460175	09-14-19 *
Virginia	NELAP	010101	09-14-19
Washington	State	C971	01-12-20
Washington	State Program	C971	01-12-20 *
West Virginia DEP	State	210	12-31-19
West Virginia DEP	State Program	210	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77046
Phone (713) 690-4444 Fax (713) 690-5646

eurofins Environment Testing
TestAmerica

Client Information		Sampler		Lab FM: Kudchadkar, Sachin G		Carrier Tracking No(s): COC No. 600-69310-18903 1		Page: Page 1 of 1																																																													
Client Contact:	Mr. Wallace Gilmore	Phone:	432-352-3662	E-Mail:	Sachin.kudchadkar@testamericainc.com	Job #:		Date/Time:																																																													
Analysis Requested																																																																					
<p>Address: 19219 Katy Freeway Suite 100 City: Houston State/Zip: TX, 77094 Phone: 713-520-990(Tel) 713-520-680(Fax) Email: wallace.gilmore@aecom.com Project Name: Chevron Site: Lost Tank 16 #004</p> <p>Due Date Requested: _____</p> <p>TAT Requested (days): _____</p> <p>PO #:</p> <p>W/O #:</p> <p>Project #: 60008660</p> <p>SSOW#:</p> <p>Total Number of containers: _____</p> <p>Preservation Codes:</p> <p>A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchilar H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2ZnO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCVA W - pH 4.5 Z - other (specify): _____</p>																																																																					
<p>Field Filtered Sample (Yes or No): _____</p> <p>Perform MS/MSD (Yes or No): _____</p> <p>8260B - BETX Only 9056 - DRGFM - 2BD - Chloro-ide 1311 - 6010B, 7470A - TCLP metals moisture</p> <p>Special Instructions/Note: _____</p> <p>Matrix (Water, Sediment, Oil/Tissue Air): _____</p> <p>Sample Identification</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Preservation Code:</th> </tr> </thead> <tbody> <tr> <td>LT16-01-0-1</td> <td>7/20/19</td> <td>1205</td> <td>C</td> <td>Solid</td> </tr> <tr> <td>LT16-01-1-2</td> <td></td> <td>1216</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-01-1-2</td> <td></td> <td>1216</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-01-2-3</td> <td></td> <td>1215</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-01-3-4</td> <td></td> <td>1220</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-01-4-5</td> <td></td> <td>1225</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-01-4-5</td> <td></td> <td>1225</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-02-0-1</td> <td></td> <td>1305</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-02-1-2</td> <td></td> <td>1310</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-02-2-3</td> <td></td> <td>1315</td> <td></td> <td>Solid</td> </tr> <tr> <td>LT16-02-3-4</td> <td></td> <td>1320</td> <td></td> <td>Solid</td> </tr> </tbody> </table> <p>600-189372 Chain of Custody</p> <p>Hold all but chloride</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months</p> <p>Special Instructions/QC Requirements:</p> <p>Possible Hazard Identification</p> <p>Empty Kit Relinquished by:</p> <p>Relinquished by: <u>Sell Fachadh</u> Received by: <u>AECON</u> Method of Shipment: <u>Air freight</u> Date/Time: <u>7/30/19 0955</u> Company: <u>AECON</u></p> <p>Deliverable Requested: I, II, III, IV, Other (specify): _____</p> <p>Relinquished by: _____ Date/Time: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>										Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code:	LT16-01-0-1	7/20/19	1205	C	Solid	LT16-01-1-2		1216		Solid	LT16-01-1-2		1216		Solid	LT16-01-2-3		1215		Solid	LT16-01-3-4		1220		Solid	LT16-01-4-5		1225		Solid	LT16-01-4-5		1225		Solid	LT16-02-0-1		1305		Solid	LT16-02-1-2		1310		Solid	LT16-02-2-3		1315		Solid	LT16-02-3-4		1320		Solid
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Ver: 01/16/2019

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Chain of Custody Record

Eurofins TestAmerica, Houston

Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

Client Information		Sampler:		Lab PM: Kudchadkar, Sachin G		Carrier Tracking No(s): 600-69310-18903 1	
Client Contact Mr. Wallace Gilmore Company AE/COM		Phone: wallace.gilmore@ae.com		E-Mail: sachin.kudchadkar@testamericalainc.com		Page: 2	
Analysis Requested							
Due Date Requested:		TAT Requested (days):		Preservation Codes:			
19219 Katy Freeway Suite 100 City: Houston State, Zip: TX , 77094 Phone: 713-520-930(Tel) 713-520-680(Fax) Email: wallace.gilmore@ae.com		7/26/19 1325 1345 1355 1400 1405 1420 1425 1430 1435 1440 ✓		A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Acetic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SC3 R - Na2S2O3 S - H2SO4 T - TSP Dexteachydrate U - Acetone V - MCA W - pH 4-5 Z - other (specify):	
Project #: 60008660 SSOW#:		W/O #:		Total Number of containers			
Field Filtered Sample (Yes or No)		Petroform MS/MSD (Yes or No)		Special Instructions/Note:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, Q=waste/oil, B=Toxic, A=Acid)	Preservation Code:	
LT16-02-4-5 LT16-03-0-1 LT16-03-0-2 LT16-03-2-3 LT16-03-3-4 LT16-03-4-5 LT16-04-0-1 LT16-04-1-2 LT16-04-2-3 LT16-04-3-4 LT16-04-4-5		7/26/19 1325 1345 1355 1400 1405 1420 1425 1430 1435 1440 ✓		Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid Solid	X X X X X X X X X X X	N N N N N N N N N N N	
Empty Kit Relinquished by: Sohn Federoff		Possible Hazard identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Relinquished by: Sohn Federoff		Date:	Date/Time:	Company	Received by:	Date/Time:	Method of Shipment:
Relinquished by: Sohn Federoff		Date:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact		Custody Seal No.: △ Yes ▲ No		Cooler Temperature(s) °C and Other Remarks:			

Ver. 01/16/2019

Chain of Custody Record

Eurofins TestAmerica, Houston
6310 Rothway Street
Houston, TX 77040
Phone (713) 690-4444 Fax (713) 690-5646

 eurofins | Environment Testing
TestAmerica

Client Information		Sampler:		Lab P.M. Kudchadkar, Sachin G		Carrier Tracking No(s): COC No. 600-69310-18903.1		Page: 3																																																																							
Client Contact:	Mr. Wallace Gilmore	Phone:		E-Mail:	sachin.kudchadkar@testamericainc.com	Job #:		Date:	Page:																																																																						
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TestAmerica Houston

Loc: 600
189372

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

19 JUL 30 9:55

Sample Receipt Checklist

Date/Time Received:

CLIENT:

JOB NUMBER: 1

UNPACKED BY: 47

CARRIER/DRIVER:

Custody Seal Present: YES NO

Number of Coolers Received: _____

CF = correction factor

Samples received on ice? YES NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED: NO

YES

Base samples are >pH 12: YES NO

Acid preserved are < pH 2:

YES NO

pH paper Lot # _____

VOA headspace acceptable (5-6mm): YES NO NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt? YES NO

COMMENTS:

Sample 27-B container empty; 10-A empty



600-189372 Waybill

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9
10
11
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FedEx
TRK# 0221 4840 2906 6419

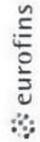
TUE - 30 JUL 10:30A
PRIORITY OVERNIGHT

AB LKSA

77040
TX-US IAH



#20265 07/29 567J3/E9E7/05A2



Environment Testing
TestAmerica

Chain of Custody Record

Eurolins TestAmerica, Houston

6310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

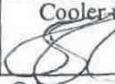
Note: Since laboratory accreditation is subject to change, TestAmerica Laboratories, Inc. places the ownership of method analysis & accreditation compliance statement upon out subcontract laboratories. This sample is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditation is current to date, return the signed Chain of Custody, atesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliverable Rank: 2	Special Instructions/QC Requirements:		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
	2023-09-18 09:00	09:00	Received by:  Company	Date/Time: 2023-09-18 09:30 Company
Relinquished by:	Date/Time:	Time:	Received by:	Date/Time:
	2023-09-18 09:00	09:00	Received by:  Company	2023-09-18 09:30 Company
Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:		
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No			

9/10/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative						Login # :
Canton Facility						
Client <u>TA Houston</u>	Site Name _____			Cooler unpacked by: 		
Cooler Received on <u>8/6/19</u>	Opened on <u>8/6/19</u>			Other		
FedEx: 1 st Grd/Exp	UPS	FAS	Clipper	Client Drop Off TestAmerica Courier		
Receipt After-hours: Drop-off Date/Time				Storage Location		
TestAmerica Cooler # <u>16</u>	Foam Box	Client Cooler	Box	Other		
Packing material used: <u>Bubble Wrap</u>	Foam	<u>Plastic Bag</u>	None	Other		
COOLANT: <u>Wet Ice</u>	<u>Blue Ice</u>	Dry Ice	Water	None		
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. <u>10</u> °C Corrected Cooler Temp. <u>11</u> °C IR GUN #36 (CF +0.6°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C						
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?						
3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels be reconciled with the COC? 9. Were correct bottle(s) used for the test(s) indicated? 10. Sufficient quantity received to perform indicated analyses? 11. Are these work share samples? If yes, Questions 12-16 have been checked at the originating laboratory.						
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# <u>HC984738</u> 13. Were VOAs on the COC? Yes No 14. Were air bubbles >6 mm in any VOA vials?  Larger than this. 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ 16. Was a LL Hg or Me Hg trip blank present? Yes No						
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other Concerning _____						
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES						Samples processed by: _____
<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>						
18. SAMPLE CONDITION Sample(s) _____ were received after the recommended holding time had expired. Sample(s) _____ were received in a broken container. Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)						
19. SAMPLE PRESERVATION Sample(s) _____ were further preserved in the laboratory. Time preserved: _____ Preservative(s) added/Lot number(s): _____						
VOA Sample Preservation - Date/Time VOAs Frozen: _____						

WI-NC-099



Eurofins TestAmerica, Houston

63310 Rothway Street
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of methods, analytic & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/submitting, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to sample compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed		Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:		Archive For		Months
<input type="checkbox"/> Return To Client		<input type="checkbox"/> Disposal By Lab		<input type="checkbox"/> Archive For						
Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:	Date:	Time:	
<i>Empty Kit Relinquished by</i> <i>STOOL</i>	<i>8/12/19</i>	<i>11:00</i>	<i>STOOL</i>	<i>8/13/19</i>	<i>9:30</i>	<i>Received by</i> <i>STOOL</i>	<i>Received by</i> <i>STOOL</i>	<i>Received by</i> <i>STOOL</i>	<i>Received by</i> <i>STOOL</i>	<i>Company</i> <i>STOOL</i>
Relinquished by:		Date/Time:		Date/Time:		Company	Company	Company	Company	Company
Relinquished by:		Date/Time:		Date/Time:		Company	Company	Company	Company	Company
Custody Seals Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:							

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative		Client Facility:	Coordinator Received on: 8-13-19	Site Name:	Cooler unboxed by:
		Login #:			
Receives After-hours: Drop-off Date/Time					
Feedback: 1st Grid Exp UPS FAS Clipper Client Drop Off TestAmerica Counter Other					
Packing material used: Bubble Wrap Foam Plastic Base None Other					
TestAmerica Cooler #: TA Client Cooler Box Storage Location					
COOLANT: Water Blue Ice Dry Ice Water None					
Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form					
IR GUN #36 (CF +0.1°C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.1 °C					
IR GUN# IR-8 (CF +0.1°C) Observed Cooler Temp. 4.0 °C Corrected Cooler Temp. 4.1 °C					
Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 - Were tamper/custody seals on the outside of the cooler(s) or bottle kits (LHg/Mhg)? Yes No NA					
Did custody papers relinquished & signed in the appropriate place? Yes No NA					
Were the custody papers acknowledged to the cooler(s)? Yes No NA					
Were tamper/custody seals intact and uncompromised? Yes No NA					
Were tamper/custody seals on the outside of the cooler(s) signed & dated? Yes No NA					
Were tamper/custody seals on the outside of the cooler(s) or bottle kits (LHg/Mhg)? Yes No NA					
Shippers packing slip attached to the cooler(s)? Yes No NA					
Were the custody papers acknowledged to the cooler(s)? Yes No NA					
Did all bottles arrive in good condition (Unbroken)? Yes No NA					
Could all bottle labels be reconciled with the COC? Yes No NA					
Were correct bottle(s) used for the test(s) indicated? Yes No NA					
Sufficient quantity received to perform indicated analyses? Yes No NA					
Were all preserved samples in the correct PH upon receipt? Yes No NA					
Were VOA's on the COC? Yes No NA					
Were air bubbles > 6 mm in any VOA vials? Yes No NA					
Were air bubbles > 6 mm in any VOA vials? Yes No NA					
Were VOA's in the correct PH? Upon receipt? Yes No NA					
Were all samples checked at the originating laboratory? Yes No NA					
If yes, Questions 12-16 have been checked at the originating laboratory.					
11. Are these work share samples? Yes No NA					
12. Were all preserved samples at the correct PH upon receipt? Yes No NA					
13. Were VOA's on the COC? Yes No NA					
14. Were air bubbles > 6 mm in any VOA vials? Yes No NA					
15. Were a VOA trip blank present in the coolers(s)? Yes No NA					
16. Was a LHg or Mg trip blank present? Yes No NA					
Comments:					
Contracted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES					
Samples processed by: Fyaun Cribbs					
Received Two external Samples w/ a lot # 189372 F2 + G2 (7-21-19 @ 1210PM) and 184372 F7 + G7 (7-29-19 @ 1225PM) .					
18. SAMPLE CONDITION					
Sample(s) _____ were received after the recommended holding time had expired. Sample(s) were received with bubble > 6 mm in diameter. (Notify PM)					
Sample(s) _____ were received in a broken container. Sample(s) were received with bubble > 6 mm in diameter. (Notify PM)					
Sample(s) _____ were received with bubble > 6 mm in diameter. (Notify PM)					
VOA Sample Preservation - Date/Time VOAs Frozen: _____					
Time preserved: _____ Preservative(s) added/Lot number(s): _____ were further preserved in the laboratory.					
19. SAMPLE PRESERVATION					



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Eurofins TestAmerica, Houston

3010 Royalway, Suite
Houston, TX 77040
Phone: 713-690-4444 Fax: 713-690-5646

Chain of Custody Record

Note: Since laboratory accreditation are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analysis & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/limits being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accelerations are current to date, return the signed Chain of custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification

Unconfirmed		Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2	Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Relinquished by:		Date:	Time:	Method of Shipment:
<i>John</i>		<i>John</i>		<i>8/12/19</i>	<i>10:00</i>	Received by <i>John</i> Company <i>EPA</i>
Relinquished by:		Relinquished by:		Date/Time:	Date/Time:	Date/Time: <i>8-13-19</i>
				Date/Time:	Date/Time:	Date/Time: <i>9:30</i>
Custody Seals intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						

Eurofins TestAmerica Canton Sample Receipt Form/Narrative					Login # : _____	
Canton Facility					Cooler unpacked by: _____	
Client <u>ETA</u>	Site Name _____				<u>Ryan Cribbler</u>	
Cooler Received on <u>8-13-19</u>	Opened on <u>8-13-19</u>					
FedEx: 1 st Grd <u>Exp</u>	UPS	FAS	Clipper	Client Drop Off	TestAmerica Courier	
Receipt After-hours: Drop-off Date/Time				Storage Location		
TestAmerica Cooler # <u>74</u>		Foam Box	Client Cooler	Box	Other _____	
Packing material used: <u>Bubble Wrap</u>		Foam	<u>Plastic Bag</u>	None	Other _____	
COOLANT: <u>Wet Ice</u>		Blue Ice	Dry Ice	Water	None	
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form						
IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. <u>4.0</u> °C Corrected Cooler Temp. <u>4.1</u> °C						
IR GUN #36 (CF +0.6 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C						
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
-Were the seals on the outside of the cooler(s) signed & dated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NA						
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
-Were tamper/custody seals intact and uncompromised? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
3. Shippers' packing slip attached to the cooler(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
4. Did custody papers accompany the sample(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
5. Were the custody papers relinquished & signed in the appropriate place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
6. Was/were the person(s) who collected the samples clearly identified on the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
7. Did all bottles arrive in good condition (Unbroken)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
8. Could all bottle labels be reconciled with the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
9. Were correct bottle(s) used for the test(s) indicated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
10. Sufficient quantity received to perform indicated analyses? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
11. Are these work share samples? If yes, Questions 12-16 have been checked at the originating laboratory.						
12. Were all preserved sample(s) at the correct pH upon receipt? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NA pH Strip Lot# <u>HC984738</u>						
13. Were VOAs on the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
14. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Larger than this. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No NA						
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
16. Was a LL Hg or Me Hg trip blank present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____						
Concerning _____						
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES						Samples processed by: <u>Ryan Cribbler</u>
<u>Received two extra samples not on COC: 189372 F2 + G2 (7-29-19 @ 12:00 PM)</u>						
<u>and 189372 F7 + G7 (7-29-19 @ 12:25 PM).</u>						
18. SAMPLE CONDITION						
Sample(s) _____ were received after the recommended holding time had expired.						
Sample(s) _____ were received in a broken container.						
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)						
19. SAMPLE PRESERVATION						
Sample(s) _____ were further preserved in the laboratory.						
Time preserved: _____ Preservative(s) added/Lot number(s): _____						
VOA Sample Preservation - Date/Time VOAs Frozen: _____						

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Login Sample Receipt Checklist

Client: AECOM

Job Number: 600-189372-2

Login Number: 189372**List Source: Eurofins TestAmerica, Houston****List Number: 1****Creator: Taylor, Jacquelyn R**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

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