

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	NRM2014854518
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Whiptail Midstream LLC	OGRID 373240
Contact Name: Ernest Johnson	Contact Telephone 918.289.2147
Contact email: ernie.johnson@whiptailmidstream.com	Incident # (assigned by OCD)
Contact mailing address 15 W. 6 th Street, Suite 2901, Tulsa, OK 74119	

Location of Release Source

Latitude 36.237804° _____ Longitude -107.607255° _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Federal 2307 7I COM	Site Type: Transfer Location
Date Release Discovered: 5/14/2020	API# N/A

Unit Letter	Section	Township	Range	County
I	7	23N	7W	Rio Arriba

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) 260 bbls	Volume Recovered (bbls) 250 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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)

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Cause of Release

Whiptail discovered a release on May 14, 2020, at the Federal 2307 7I COM located in section 7, T23N, R7W in Rio Arriba County. The volume of crude oil released is estimated at 260 bbls at this time, of which approximately 10-20 bbls released outside of containment. The release was caused by a failure in the suction line on the transfer pump. The LACT building and lined containment filled with oil and the liner is believed to be compromised. Whiptail removed 250 bbls of standing liquids via vac truck and are pulling back the liner to investigate potential impact to soil. A third party contractor has been retained to oversee remediation of the release.

Was this a major release as defined by 19.15.29.7(A) NMAC?

☒ Yes ☐ No

If YES, for what reason(s) does the responsible party consider this a major release?
An unauthorized release greater than 25 bbls.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Verbal notification (via phone/voicemail) was provided to the NMOCD (Cory Smith) and BLM (Emmanuel Abiodun Adeyoye) by Whiptail Midstream (Greg Riley) within 24 hours of discovering the release on 5/14/20. Initial C-141 was received by the OCD on 5/27/20.

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.

Oil Conservation Division

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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: Ernest Johnson Title: Director of Risk and Engineering Services

Signature: _____ Date: 6/12/20

email: ernie.johnson@whiptailmidstream.com Telephone: 918.289.2147

OCD Only

Received by: _____ Date: _____

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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?	_____ >100 (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.

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Printed Name: _____ Ernest Johnson _____ Title: _____ Director of Risk and Engineering Services

Signature: _____  _____ Date: _____ 6/12/20 _____

email: _____ ernie.johnson@whiptailmidstream.com _____ Telephone: _____ 918.289.2147 _____

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: ____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Ernest Johnson Title: Director of Risk and Engineering Services


Signature:  Date: 6/12/20

email: ernie.johnson@whiptailmidstream.com Telephone: 918.289.2147

OCD Only

Received by: OCD Date: 6/24/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 10/28/2020

Printed Name: Cory Smith Title: Environmental Specialist



LT Environmental, Inc.
848 East Second Avenue
Durango, Colorado 81301
970.385.1096

June 10, 2020

Mr. Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

**RE: Closure Request
Federal 2307 7I COM
Whiptail Midstream
Incident # NRM2014854518
Rio Arriba County, New Mexico**

Dear Mr. Smith:

LT Environmental, Inc. (LTE), on behalf of Whiptail Midstream (Whiptail), presents the following Closure Request detailing soil sampling and excavation activities at the Federal 2307 7I COM (Site) in Unit P, Section 7, Township 23 North, Range 7 West, in Rio Arriba County, New Mexico (Figure 1). The purpose of the soil sampling and excavation activities was to address impacts to soil following a release of crude oil. Based on the excavation activities and results of the confirmation soil sampling, Whiptail is submitting this Closure Request, describing remediation that has occurred and requesting no further action for the release event.

RELEASE BACKGROUND

On May 13, 2020, a transfer hose on a Lease Automatic Custody Transfer (LACT) unit pump failed and crude oil began to fill the LACT unit skid and secondary containment. The release was discovered on May 14, 2020, and all production activities were stopped to investigate the cause of the release and begin mitigation. The crude oil filled the secondary containment of the LACT unit and there was no evidence of the crude oil overtopping the containment. However, crude oil was encountered beneath the liner of the adjacent aboveground storage tank (AST) battery secondary containment owned by Logos Operating LLC. Further investigation revealed a small hole in the LACT unit containment liner which acted as a conduit for crude oil to migrate beneath the AST liner and saturate the subsurface.

A vacuum truck was used to recover approximately 250 barrels (bbl) of free-standing crude oil from the LACT secondary containment. An unknown volume of crude oil saturated the subsurface of the AST liner. Whiptail reported the release to the New Mexico Oil Conservation Division (NMOCD) verbally within 24 hours and on a Release Notification and Corrective Action Form C-141 (Form C-141) on May 18, 2020, and was assigned Incident Number NRM2014854518.



SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is SJ-1334, located approximately 10,250 feet northwest of the Site. The water well has a depth to groundwater of 40 feet and a total depth of 90 feet. Ground surface elevation at the water well location is 6,945 feet above mean sea level (AMSL), which is approximately 330 feet lower in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is an intermittent wash located approximately 935 feet east of the Site. This seasonal stream is a first order tributary of Blanco Wash, another seasonally intermittent stream located approximately 4,000 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not located within a potential karst area.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg);
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg;
- TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg;
- Total petroleum hydrocarbons (TPH): 2,500 mg/kg; and
- Chloride: 20,000 mg/kg.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

On May 15, 2020, LTE personnel inspected the Site to evaluate the release extent. Surficial staining was observed beneath the liner in the southwestern portion of the secondary containment of the AST battery. Whiptail mobilized a vacuum truck and emergency response construction contractors to begin remediation activities. All free-standing liquids were recovered via vacuum truck and the crew began removing the liner from the AST battery and excavating saturated soil via hand digging throughout the secondary containment.

From May 15 to May 21, 2020, the crew continued to excavate impacted soil throughout the AST battery. During excavation activities, six of the ASTs were emptied and removed from the battery infrastructure in order to remove impacted soil beneath the ASTs. LTE personnel were onsite to



Smith, C.
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direct excavation activities via field screening of the impacted soil using visual and olfactory screening, and screened soil for volatile aromatic hydrocarbons utilizing a calibrated photoionization detector (PID).

Following removal of impacted soil, LTE personnel were onsite on May 26, 2020, to collect excavation confirmation soil samples. Emmanuel Abiodun Adeloje, a representative of the Bureau of Land Management (BLM) was onsite to witness sampling activities. LTE collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples SS01 through SS07 were collected from the sidewalls of the excavation from depths ranging from ground surface to approximately two feet bgs. Composite soil samples FS01 through FS05 were collected from the floor of the excavation from a depth of two feet bgs. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. A photographic log of the excavation activities is included as Attachment 1.

The excavation confirmation soil samples were collected, placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below four degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Hall Environmental Analytical Laboratories (Hall) in Albuquerque, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (USEPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-motor oil range organics (MRO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0.

The excavation extent measured approximately 1,510 square feet in area. A total of approximately 118 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the Envirotech landfill facility located in Bloomfield, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results from excavation confirmation samples indicated that benzene, total BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in excavation soil samples SS01 through SS07 and FS01 through FS05 and no further excavation was required.

Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 2.

CLOSURE REQUEST

A total of 118 cubic yards of impacted soil were excavated, and laboratory analytical results for the confirmation soil samples collected from the final excavation extent indicated that benzene,



Smith, C.
Page 4

total BTEX, TPH-GRO + TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and no further excavation was required.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Whiptail requests no further action for Incident Number NRM2014854518. Based on the laboratory analytical results, Whiptail backfilled the excavation and replaced the production infrastructure in the AST battery. An updated NMOCD Form C-141 is attached to the front of this report.

If you have any questions or comments, please do not hesitate to contact Ms. Brooke Herb at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink, appearing to read 'D. Burns'.

Danny Burns
Project Geologist

A handwritten signature in blue ink, appearing to read 'Ashley L. Ager'.

Ashley Ager, P.G.
Senior Geologist

cc: Ernest Johnson, Whiptail Midstream

Attachments:

Figure 1 Site Location Map

Figure 2 Soil Analytical Results

Table 1 Confirmation Soil Sample Analytical Results

Attachment 1 Photographic Log

Attachment 2 Laboratory Analytical Report

FIGURES



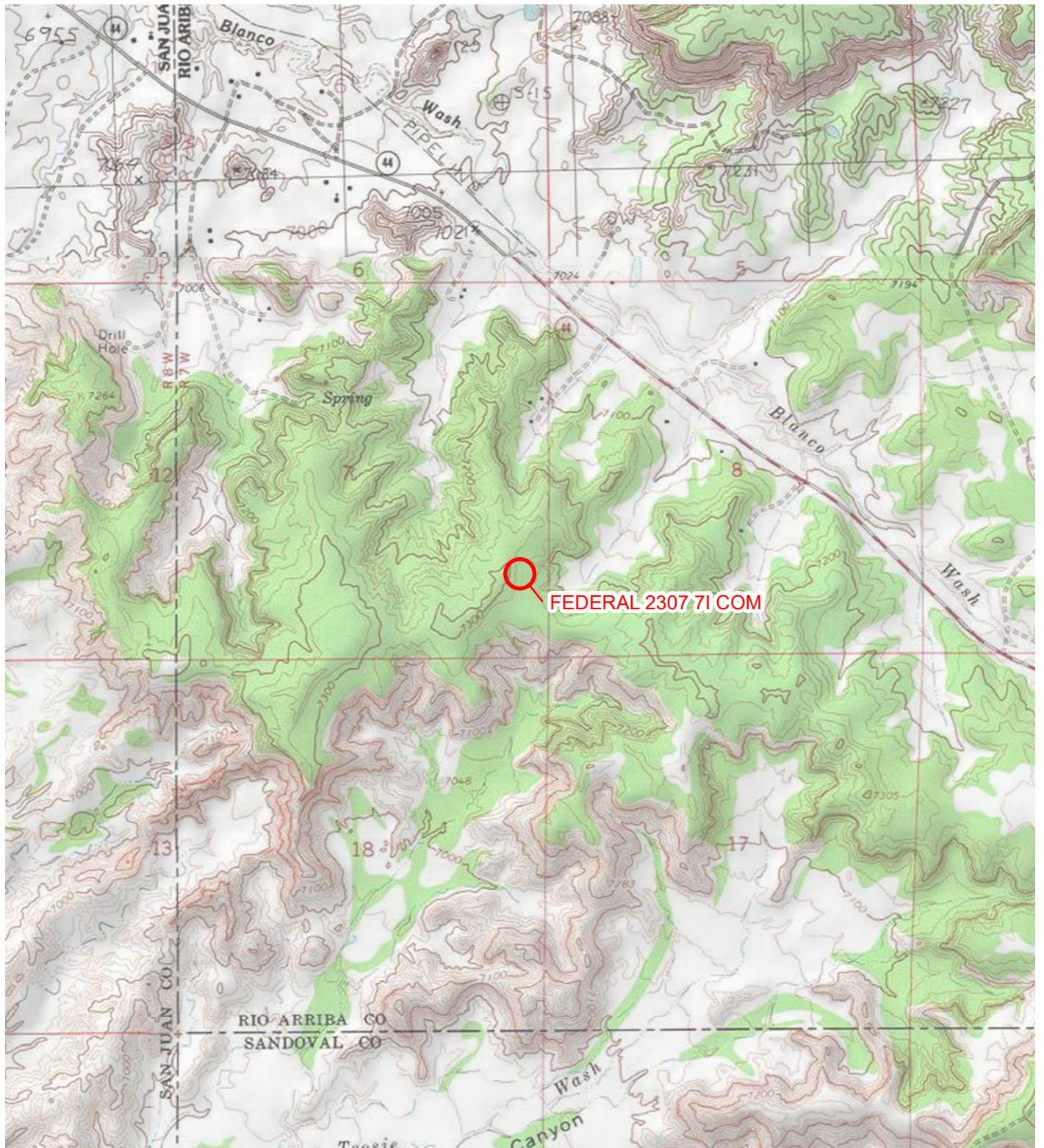


IMAGE COURTESY OF ESRI/USGS

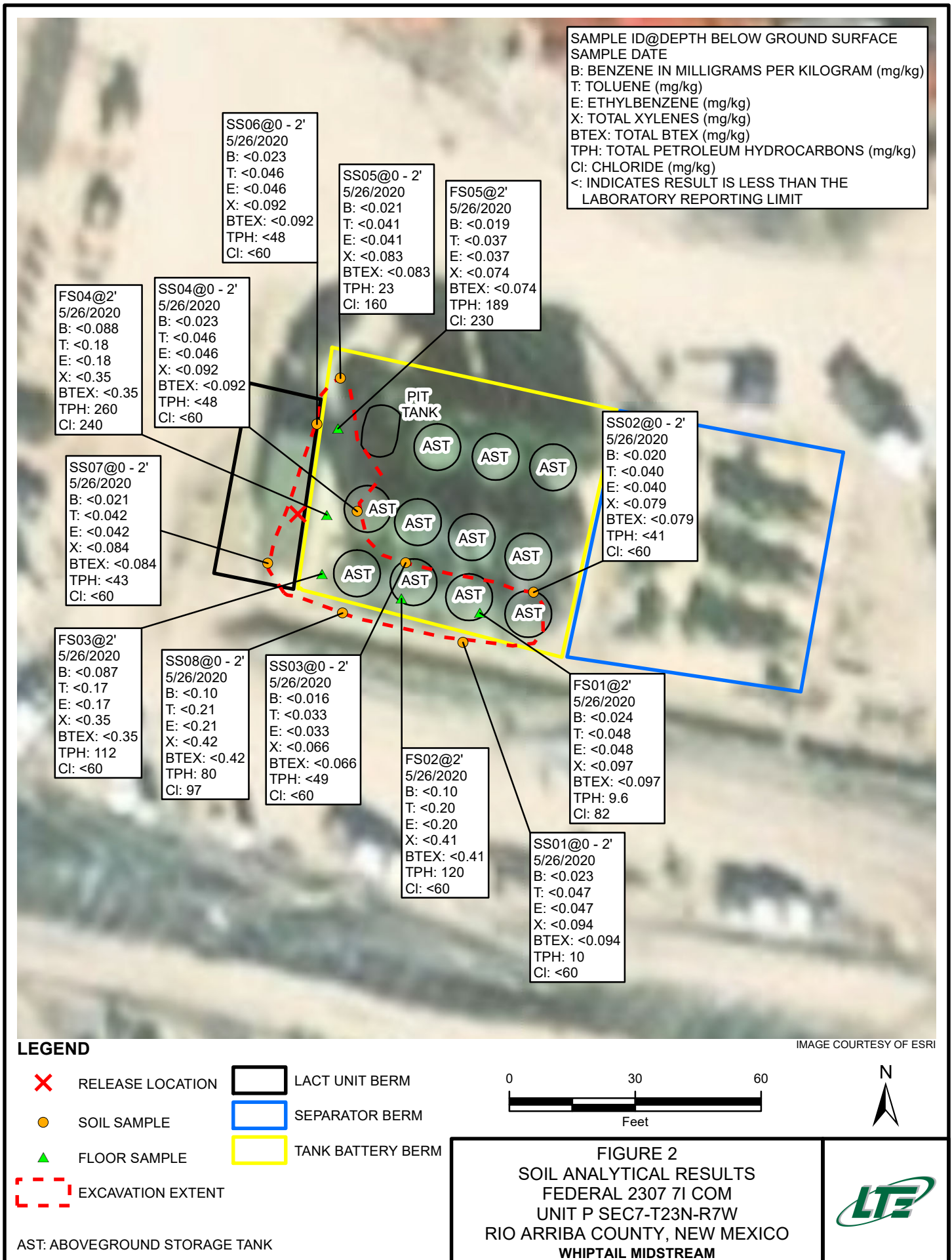
LEGEND SITE LOCATION

0 2,000 4,000
Feet

NEW
MEXICO

FIGURE 1
SITE LOCATION MAP
FEDERAL 2307 7I COM
UNIT P SEC7-T23N-R7W
RIO ARRIBA COUNTY, NEW MEXICO
WHIPTAIL MIDSTREAM





TABLE



TABLE 1
CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS

FEDERAL 2307 7I COM
RIO ARRIBA COUNTY, NEW MEXICO
WHIPTAIL MIDSTREAM

Sample Name	Sample Depth (feet bgs)	Sample Date	PID Reading (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
<i>Excavation sidewall composite sample</i>														
SS01	0 - 2'	5/26/2020	3.1	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	10	<46	10	10	<60
SS02	0 - 2'	5/26/2020	0.8	<0.020	<0.040	<0.040	<0.079	<0.079	<4.0	<8.2	<41	<8.2	<41	<60
SS03	0 - 2'	5/26/2020	1.6	<0.016	<0.033	<0.033	<0.066	<0.066	<3.3	<9.8	<49	<9.8	<49	<60
SS04	0 - 2'	5/26/2020	1.0	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.6	<48	<9.6	<48	<60
SS05	0 - 2'	5/26/2020	1.5	<0.021	<0.041	<0.041	<0.083	<0.083	<4.1	23	<49	23	23	160
SS06	0 - 2'	5/26/2020	0.4	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.5	<48	<9.5	<48	<60
SS07	0 - 2'	5/26/2020	2.7	<0.021	<0.042	<0.042	<0.084	<0.084	<4.2	<8.5	<43	<8.5	<43	<60
SS08	0 - 2'	5/26/2020	3.8	<0.10	<0.21	<0.21	<0.42	<0.42	<21	80	<50	80	80	97
<i>Excavation floor composite sample</i>														
FS01	2'	5/26/2020	0.1	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	9.6	<41	9.6	9.6	82
FS02	2'	5/26/2020	7.9	<0.10	<0.20	<0.20	<0.41	<0.41	<20	66	54	66	120	<60
FS03	2'	5/26/2020	47.0	<0.087	<0.17	<0.17	<0.35	<0.35	<17	62	50	62	112	<60
FS04	2'	5/26/2020	18.2	<0.088	<0.18	<0.18	<0.35	<0.35	<18	130	130	130	260	240
FS05	2'	5/26/2020	4.4	<0.019	<0.037	<0.037	<0.074	<0.074	<3.7	91	98	91	189	230
NMOCD Closure Criteria			NE	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000

Notes:

BTEX - benzene, toluene, ethylbenzene, and total xylenes analyzed by US EPA Method 8021B

DRO - diesel range organics analyzed by US EPA Method 8015D

GRO - gasoline range organics analyzed by US EPA Method 8015D

mg/kg - milligrams per kilogram

MRO - motor oil range organics analyzed by US EPA Method 8015D

NE - not established

NMOCD - New Mexico Oil Conservation Division

TPH - total petroleum hydrocarbons (sum of GRO, DRO and MRO)

US EPA - United States Environmental Protection Agency

< - indicates result is less than the stated laboratory reporting limit



ATTACHMENT 1: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG



Photograph 1: View north, LACT unit building in foreground, ASTs in background.



Photograph 2: View northwest of AST battery, prior to tank removal and excavation.

PHOTOGRAPHIC LOG



Photograph 3: Excavation between LACT unit and AST containment.



Photograph 4: View north of excavation after tank removal and additional excavation.

PHOTOGRAPHIC LOG



Photograph 5: View southeast of excavation between LACT unit and AST battery.



Photograph 6: View east of excavation after tank removal.

PHOTOGRAPHIC LOG



Photograph 7: View northwest of excavation between LACT unit and AST after tank removal.



Photograph 8: View southwest of excavation between LACT unit and AST.

ATTACHMENT 2: LABORATORY ANALYTICAL REPORT





Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 01, 2020

Brooke Herb
LTE
848 East 2nd Avenue
Durango, CO 81301
TEL: (970) 946-1093
FAX:

RE: Federal 2307 7I COM

OrderNo.: 2005B10

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 13 sample(s) on 5/27/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued May 29, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SS01

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:00:00 AM

Lab ID: 2005B10-001

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	10	9.3		mg/Kg	1	5/27/2020 10:31:59 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/27/2020 10:31:59 AM
Surr: DNOP	97.1	55.1-146		%Rec	1	5/27/2020 10:31:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/27/2020 9:21:29 AM
Surr: BFB	87.5	66.6-105		%Rec	1	5/27/2020 9:21:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/27/2020 9:21:29 AM
Toluene	ND	0.047		mg/Kg	1	5/27/2020 9:21:29 AM
Ethylbenzene	ND	0.047		mg/Kg	1	5/27/2020 9:21:29 AM
Xylenes, Total	ND	0.094		mg/Kg	1	5/27/2020 9:21:29 AM
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	5/27/2020 9:21:29 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/27/2020 10:00:29 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SS02

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:05:00 AM

Lab ID: 2005B10-002

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	8.2		mg/Kg	1	5/27/2020 10:56:16 AM
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	5/27/2020 10:56:16 AM
Surr: DNOP	97.8	55.1-146		%Rec	1	5/27/2020 10:56:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	5/27/2020 9:45:02 AM
Surr: BFB	87.2	66.6-105		%Rec	1	5/27/2020 9:45:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	5/27/2020 9:45:02 AM
Toluene	ND	0.040		mg/Kg	1	5/27/2020 9:45:02 AM
Ethylbenzene	ND	0.040		mg/Kg	1	5/27/2020 9:45:02 AM
Xylenes, Total	ND	0.079		mg/Kg	1	5/27/2020 9:45:02 AM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/27/2020 9:45:02 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/27/2020 10:12:50 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SS03

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:10:00 AM

Lab ID: 2005B10-003

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/27/2020 11:20:30 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/27/2020 11:20:30 AM
Surr: DNOP	99.0	55.1-146		%Rec	1	5/27/2020 11:20:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/27/2020 10:08:32 AM
Surr: BFB	85.4	66.6-105		%Rec	1	5/27/2020 10:08:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	5/27/2020 10:08:32 AM
Toluene	ND	0.033		mg/Kg	1	5/27/2020 10:08:32 AM
Ethylbenzene	ND	0.033		mg/Kg	1	5/27/2020 10:08:32 AM
Xylenes, Total	ND	0.066		mg/Kg	1	5/27/2020 10:08:32 AM
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	5/27/2020 10:08:32 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/27/2020 10:25:11 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SS04

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:15:00 AM

Lab ID: 2005B10-004

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/27/2020 9:48:20 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/27/2020 9:48:20 AM
Surr: DNOP	97.9	55.1-146		%Rec	1	5/27/2020 9:48:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/27/2020 10:32:05 AM
Surr: BFB	88.8	66.6-105		%Rec	1	5/27/2020 10:32:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/27/2020 10:32:05 AM
Toluene	ND	0.046		mg/Kg	1	5/27/2020 10:32:05 AM
Ethylbenzene	ND	0.046		mg/Kg	1	5/27/2020 10:32:05 AM
Xylenes, Total	ND	0.092		mg/Kg	1	5/27/2020 10:32:05 AM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/27/2020 10:32:05 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/27/2020 10:37:32 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SS05

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:20:00 AM

Lab ID: 2005B10-005

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	23	9.8		mg/Kg	1	5/27/2020 10:12:54 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/27/2020 10:12:54 AM
Surr: DNOP	102	55.1-146		%Rec	1	5/27/2020 10:12:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	5/27/2020 10:55:34 AM
Surr: BFB	88.1	66.6-105		%Rec	1	5/27/2020 10:55:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	5/27/2020 10:55:34 AM
Toluene	ND	0.041		mg/Kg	1	5/27/2020 10:55:34 AM
Ethylbenzene	ND	0.041		mg/Kg	1	5/27/2020 10:55:34 AM
Xylenes, Total	ND	0.083		mg/Kg	1	5/27/2020 10:55:34 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	5/27/2020 10:55:34 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	160	60		mg/Kg	20	5/27/2020 10:49:52 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SS06

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:25:00 AM

Lab ID: 2005B10-006

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/27/2020 10:37:14 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/27/2020 10:37:14 AM
Surr: DNOP	103	55.1-146		%Rec	1	5/27/2020 10:37:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/27/2020 11:19:05 AM
Surr: BFB	90.6	66.6-105		%Rec	1	5/27/2020 11:19:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/27/2020 11:19:05 AM
Toluene	ND	0.046		mg/Kg	1	5/27/2020 11:19:05 AM
Ethylbenzene	ND	0.046		mg/Kg	1	5/27/2020 11:19:05 AM
Xylenes, Total	ND	0.091		mg/Kg	1	5/27/2020 11:19:05 AM
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	5/27/2020 11:19:05 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/27/2020 11:02:13 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SS07

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:30:00 AM

Lab ID: 2005B10-007

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	5/27/2020 11:01:53 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	5/27/2020 11:01:53 AM
Surr: DNOP	108	55.1-146		%Rec	1	5/27/2020 11:01:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	5/27/2020 11:42:46 AM
Surr: BFB	87.2	66.6-105		%Rec	1	5/27/2020 11:42:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	5/27/2020 11:42:46 AM
Toluene	ND	0.042		mg/Kg	1	5/27/2020 11:42:46 AM
Ethylbenzene	ND	0.042		mg/Kg	1	5/27/2020 11:42:46 AM
Xylenes, Total	ND	0.084		mg/Kg	1	5/27/2020 11:42:46 AM
Surr: 4-Bromofluorobenzene	99.5	80-120		%Rec	1	5/27/2020 11:42:46 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/27/2020 11:14:33 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SS08

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:35:00 AM

Lab ID: 2005B10-008

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	80	10		mg/Kg	1	5/27/2020 11:50:32 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/27/2020 11:50:32 AM
Surr: DNOP	108	55.1-146		%Rec	1	5/27/2020 11:50:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	5/27/2020 12:06:12 PM
Surr: BFB	89.2	66.6-105		%Rec	5	5/27/2020 12:06:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	5	5/27/2020 12:06:12 PM
Toluene	ND	0.21		mg/Kg	5	5/27/2020 12:06:12 PM
Ethylbenzene	ND	0.21		mg/Kg	5	5/27/2020 12:06:12 PM
Xylenes, Total	ND	0.42		mg/Kg	5	5/27/2020 12:06:12 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	5	5/27/2020 12:06:12 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	97	60		mg/Kg	20	5/27/2020 11:51:34 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: FS01

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:40:00 AM

Lab ID: 2005B10-009

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	9.6	8.3		mg/Kg	1	5/27/2020 9:53:48 AM
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	5/27/2020 9:53:48 AM
Surr: DNOP	89.7	55.1-146		%Rec	1	5/27/2020 9:53:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/27/2020 12:29:43 PM
Surr: BFB	87.8	66.6-105		%Rec	1	5/27/2020 12:29:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/27/2020 12:29:43 PM
Toluene	ND	0.048		mg/Kg	1	5/27/2020 12:29:43 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/27/2020 12:29:43 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/27/2020 12:29:43 PM
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	5/27/2020 12:29:43 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	82	60		mg/Kg	20	5/27/2020 12:03:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: FS02

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:45:00 AM

Lab ID: 2005B10-010

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	66	9.0		mg/Kg	1	5/27/2020 10:17:48 AM
Motor Oil Range Organics (MRO)	54	45		mg/Kg	1	5/27/2020 10:17:48 AM
Surr: DNOP	89.2	55.1-146		%Rec	1	5/27/2020 10:17:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	5/27/2020 12:53:18 PM
Surr: BFB	89.2	66.6-105		%Rec	5	5/27/2020 12:53:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	5	5/27/2020 12:53:18 PM
Toluene	ND	0.20		mg/Kg	5	5/27/2020 12:53:18 PM
Ethylbenzene	ND	0.20		mg/Kg	5	5/27/2020 12:53:18 PM
Xylenes, Total	ND	0.41		mg/Kg	5	5/27/2020 12:53:18 PM
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	5	5/27/2020 12:53:18 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/27/2020 12:16:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: FS03

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:50:00 AM

Lab ID: 2005B10-011

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	62	7.9		mg/Kg	1	5/27/2020 10:41:49 AM
Motor Oil Range Organics (MRO)	50	40		mg/Kg	1	5/27/2020 10:41:49 AM
Surr: DNOP	87.4	55.1-146		%Rec	1	5/27/2020 10:41:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	5/27/2020 1:40:14 PM
Surr: BFB	89.8	66.6-105		%Rec	5	5/27/2020 1:40:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.087		mg/Kg	5	5/27/2020 1:40:14 PM
Toluene	ND	0.17		mg/Kg	5	5/27/2020 1:40:14 PM
Ethylbenzene	ND	0.17		mg/Kg	5	5/27/2020 1:40:14 PM
Xylenes, Total	ND	0.35		mg/Kg	5	5/27/2020 1:40:14 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	5	5/27/2020 1:40:14 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	5/27/2020 12:28:36 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: FS04

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 11:55:00 AM

Lab ID: 2005B10-012

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	130	9.4		mg/Kg	1	5/27/2020 11:05:53 AM
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	5/27/2020 11:05:53 AM
Surr: DNOP	96.8	55.1-146		%Rec	1	5/27/2020 11:05:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	5/27/2020 2:03:43 PM
Surr: BFB	89.3	66.6-105		%Rec	5	5/27/2020 2:03:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.088		mg/Kg	5	5/27/2020 2:03:43 PM
Toluene	ND	0.18		mg/Kg	5	5/27/2020 2:03:43 PM
Ethylbenzene	ND	0.18		mg/Kg	5	5/27/2020 2:03:43 PM
Xylenes, Total	ND	0.35		mg/Kg	5	5/27/2020 2:03:43 PM
Surr: 4-Bromofluorobenzene	98.9	80-120		%Rec	5	5/27/2020 2:03:43 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	240	60		mg/Kg	20	5/27/2020 12:40:56 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2005B10

Date Reported: 6/1/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: FS05

Project: Federal 2307 7I COM

Collection Date: 5/26/2020 12:00:00 PM

Lab ID: 2005B10-013

Matrix: MEOH (SOIL)

Received Date: 5/27/2020 8:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: CLP
Diesel Range Organics (DRO)	91	9.1		mg/Kg	1	5/27/2020 11:53:58 AM
Motor Oil Range Organics (MRO)	98	46		mg/Kg	1	5/27/2020 11:53:58 AM
Surr: DNOP	95.4	55.1-146		%Rec	1	5/27/2020 11:53:58 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	230	60		mg/Kg	20	5/27/2020 12:53:18 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	5/27/2020 11:33:16 AM
Toluene	ND	0.037		mg/Kg	1	5/27/2020 11:33:16 AM
Ethylbenzene	ND	0.037		mg/Kg	1	5/27/2020 11:33:16 AM
Xylenes, Total	ND	0.074		mg/Kg	1	5/27/2020 11:33:16 AM
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%Rec	1	5/27/2020 11:33:16 AM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	5/27/2020 11:33:16 AM
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	5/27/2020 11:33:16 AM
Surr: Toluene-d8	98.6	70-130		%Rec	1	5/27/2020 11:33:16 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/27/2020 11:33:16 AM
Surr: BFB	107	70-130		%Rec	1	5/27/2020 11:33:16 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005B10

01-Jun-20

Client: LTE
Project: Federal 2307 7I COM

Sample ID: MB-52712	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 52712	RunNo: 69166
Prep Date: 5/27/2020	Analysis Date: 5/27/2020	SeqNo: 2398121 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-52712	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 52712	RunNo: 69166
Prep Date: 5/27/2020	Analysis Date: 5/27/2020	SeqNo: 2398122 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 91.1 90 110

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005B10

01-Jun-20

Client: LTE**Project:** Federal 2307 7I COM

Sample ID: MB-52711	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52711	RunNo: 69155								
Prep Date: 5/27/2020	Analysis Date: 5/27/2020	SeqNo: 2396635 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.7	55.1	146			

Sample ID: LCS-52711	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52711	RunNo: 69155								
Prep Date: 5/27/2020	Analysis Date: 5/27/2020	SeqNo: 2396836 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	70	130			
Surr: DNOP	4.3		5.000		85.5	55.1	146			

Sample ID: 2005B10-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SS01	Batch ID: 52711	RunNo: 69155								
Prep Date: 5/27/2020	Analysis Date: 5/27/2020	SeqNo: 2397164 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	9.5	47.44	10.29	95.7	47.4	136			
Surr: DNOP	4.6		4.744		96.4	55.1	146			

Sample ID: 2005B10-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SS01	Batch ID: 52711	RunNo: 69155								
Prep Date: 5/27/2020	Analysis Date: 5/27/2020	SeqNo: 2397165 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	8.7	43.55	10.29	89.4	47.4	136	12.3	43.4	
Surr: DNOP	4.2		4.355		97.1	55.1	146	0	0	

Sample ID: MB-52681	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 52681	RunNo: 69134								
Prep Date: 5/26/2020	Analysis Date: 5/27/2020	SeqNo: 2397783 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	55.1	146			

Sample ID: LCS-52681	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 52681	RunNo: 69134								
Prep Date: 5/26/2020	Analysis Date: 5/27/2020	SeqNo: 2397784 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005B10

01-Jun-20

Client: LTE

Project: Federal 2307 7I COM

Sample ID: LCS-52681		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS		Batch ID: 52681		RunNo: 69134							
Prep Date: 5/26/2020		Analysis Date: 5/27/2020		SeqNo: 2397784			Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.1		5.000		102	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **2005B10****01-Jun-20****Client:** LTE**Project:** Federal 2307 7I COM

Sample ID: mb1	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: G69168				RunNo: 69168					
Prep Date:	Analysis Date: 5/27/2020				SeqNo: 2397667		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.9	66.6	105			

Sample ID: 2.5ug gro lcs	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: G69168				RunNo: 69168					
Prep Date:	Analysis Date: 5/27/2020				SeqNo: 2397668		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.5	80	120			
Surr: BFB	990		1000		98.7	66.6	105			

Sample ID: 2005b10-001ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: SS01	Batch ID: G69168				RunNo: 69168					
Prep Date:	Analysis Date: 5/27/2020				SeqNo: 2397681		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.7	23.41	0	88.2	80	120			
Surr: BFB	930		936.3		98.9	66.6	105			

Sample ID: 2005b10-001amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: SS01	Batch ID: G69168				RunNo: 69168					
Prep Date:	Analysis Date: 5/27/2020				SeqNo: 2397682		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.7	23.41	0	87.5	80	120	0.774	20	
Surr: BFB	920		936.3		97.8	66.6	105	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005B10

01-Jun-20

Client: LTE**Project:** Federal 2307 7I COM

Sample ID: mb1	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B69168			RunNo: 69168						
Prep Date:	Analysis Date: 5/27/2020			SeqNo: 2397705			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B69168			RunNo: 69168						
Prep Date:	Analysis Date: 5/27/2020			SeqNo: 2397706			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.2	80	120			
Toluene	0.99	0.050	1.000	0	99.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: 2005b10-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: SS02	Batch ID: B69168			RunNo: 69168						
Prep Date:	Analysis Date: 5/27/2020			SeqNo: 2397719			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.020	0.7949	0	83.6	78.5	119			
Toluene	0.68	0.040	0.7949	0	85.9	75.7	123			
Ethylbenzene	0.70	0.040	0.7949	0	87.6	74.3	126			
Xylenes, Total	2.1	0.079	2.385	0	87.1	72.9	130			
Surr: 4-Bromofluorobenzene	0.84		0.7949		106	80	120			

Sample ID: 2005b10-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: SS02	Batch ID: B69168			RunNo: 69168						
Prep Date:	Analysis Date: 5/27/2020			SeqNo: 2397720			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.020	0.7949	0	83.3	78.5	119	0.336	20	
Toluene	0.69	0.040	0.7949	0	86.4	75.7	123	0.638	20	
Ethylbenzene	0.69	0.040	0.7949	0	86.7	74.3	126	0.941	20	
Xylenes, Total	2.1	0.079	2.385	0	86.6	72.9	130	0.480	20	
Surr: 4-Bromofluorobenzene	0.85		0.7949		107	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2005B10

01-Jun-20

Client: LTE

Project: Federal 2307 7I COM

Sample ID: LCS-52674	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 52674	RunNo: 69165								
Prep Date: 5/25/2020	Analysis Date: 5/27/2020	SeqNo: 2397013	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.7	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.1	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.5	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			

Sample ID: mb-52674	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 52674	RunNo: 69165								
Prep Date: 5/25/2020	Analysis Date: 5/27/2020	SeqNo: 2397014	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.5	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.0	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.8	70	130			
Surr: Toluene-d8	0.48		0.5000		96.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005B10

01-Jun-20

Client: LTE

Project: Federal 2307 7I COM

Sample ID: lcs-52674	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 52674			RunNo: 69165						
Prep Date: 5/25/2020	Analysis Date: 5/27/2020			SeqNo: 2397020		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.3	70	130			
Surr: BFB	550		500.0		110	70	130			

Sample ID: mb-52674	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 52674			RunNo: 69165						
Prep Date: 5/25/2020	Analysis Date: 5/27/2020			SeqNo: 2397021		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	550		500.0		109	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

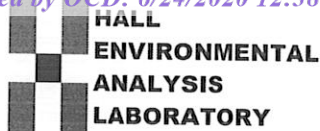
S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **LTE**Work Order Number: **2005B10**RcptNo: **1**Received By: **Isaiah Ortiz**

5/27/2020 8:20:00 AM

I-Ox

Completed By: **Isaiah Ortiz**

5/27/2020 8:26:48 AM

I-Ox

Reviewed By: **DAD 5/27/20**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: gm 5/27/20

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Chain-of-Custody Record

Client: <u>LIE</u>		Turn-Around Time: <u>same day</u>	
Mailing Address: <u>Brooke Herb</u>		<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush	
Phone #: _____		Project Name: <u>Federal 2307 FI COM</u>	
email or Fax#: _____		Project #: <u>099520002.001</u>	
QA/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Project Manager: <u>Brooke Herb</u>	
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other _____		Sampler: <u>D. Burns</u>	
<input type="checkbox"/> EDD (Type) _____		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cooler Temp (including CF): <u>14° - 0/α / 14° C (°C)</u>		# of Coolers: <u>1</u>	
Date	Time	Matrix	Sample Name
5-26	1200	soil	FS05
Container Type and # <u>F402</u> Preservative Type <u>cool</u> HEAL No. <u>2005816</u>			
BTEx / MTBE / TMB's (8021) <u>XX</u>			
TPH: 8015D (GRO / DRO / MRO) <u>XX</u>			
8081 Pesticides/8082 PCB's			
EDB (Method 504.1)			
PAHs by 8310 or 8270SIMS			
RCRA 8 Metals			
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄			
8260 (VOA)			
8270 (Semi-VOA)			
Total Coliform (Present/Absent) <u>X</u>			

Remarks:

Date: <u>5/26/20</u>	Time: <u>1320</u>	Relinquished by: <u>[Signature]</u>	Via: <u>Christa Walker</u>	Date: <u>5/26/20</u>	Time: <u>1320</u>
Date: <u>5/26/20</u>	Time: <u>1810</u>	Relinquished by: <u>Christa Walker</u>	Via: <u>courier</u>	Date: <u>5/27/20</u>	Time: <u>0820</u>