

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	NVF1900731813
District RP	13665
Facility ID	
Application ID	

Release Notification

PLS 191 752 9119

Responsible Party

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # (assigned by OCD)	NVF1900731813
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.643012 Longitude -107.354571
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Trunk L	Site Type	Compressor Station
Date Release Discovered	12/14/2018	API# (if applicable)	

Unit Letter	Section	Township	Range	County
P	28	28N	5W	Rio Arriba

NMOCD

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

MAY 3 2019

Nature and Volume of Release

DISTRICT III

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (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 checked="" type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 22 BBLs into lined secondary containment.	Volume Recovered (bbls) 22
<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

Excessive liquids receive by station during a pig run. Also, higher initial level in slug catcher due to stuck float valve.

All free liquids have been recovered by vac truck from the lined secondary containment.

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Smith, Cory, EMNRD

From: Smith, Cory, EMNRD
Sent: Friday, June 21, 2019 10:54 AM
To: 'Kijun Hong'
Subject: RE: [EXTERNAL] RE: Harvest Midstream - Trunk L - Update

Kijun,

OCD has reviewed the remediation plan for the Trunk L received on May 31, 2019 and have approved the plan with the following conditions of approval:

- Harvest will achieve a run time of 90% or better of the proposed 10 hours in winter and 12 hours in summer per quarter.
- Harvest will collect the proposed air samples prior to the inlet of the vacuum pump but, after the convergence of all SVE wells or alternatively an air sample from each SVE well is acceptable.
 - o The gas sample will be analyzed for EPA Method 8260 Full List and include Carbon Dioxide and Oxygen.
- Harvest will collect an initial gas sample for laboratory analysis shortly after startup of SVE operations after the initial gas sample an annual sample as described in the remediation plan is acceptable.
- Harvest quarterly report will include at a minimum
 - o Summary of remediation activity for the quarter
 - o SVE Run time
 - o SVE mass removal
 - o Field notes (VOC readings, water/product recovery, inspection dates etc)
 - o Amount of liquids/product recovered if any (This will be recorded from the knock out drum since ground water in not expected to be encountered)

OCD recommends the installation of an additional "Vent" well with fans or even active air sparging well to increase oxygen levels which would promote biodegradation and assist in air movement for sve remediation.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Smith, Cory, EMNRD
Sent: Monday, May 6, 2019 10:15 AM
To: 'Kijun Hong' <khong@harvestmidstream.com>
Subject: RE: [EXTERNAL] RE: Harvest Midstream - Trunk L - Update

Kijun,

Yes an SVE system is an OCD acceptable insitu remediation technique.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Kijun Hong <khong@harvestmidstream.com>
Sent: Monday, May 6, 2019 10:04 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Subject: [EXT] RE: [EXTERNAL] RE: Harvest Midstream - Trunk L - Update

Hey Cory,
Would you be open to installing an SVE system to remediate?

This would allow us to keep tanks in service.

From: Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]
Sent: Thursday, May 02, 2019 2:09 PM
To: Kijun Hong <khong@harvestmidstream.com>
Cc: bherb@ltenv.com; Joseph Pruitt <jpruitt@harvestmidstream.com>; Lloyd Bell <lbell@harvestmidstream.com>; tjones@harvestmidstream.com; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Subject: RE: [EXTERNAL] RE: Harvest Midstream - Trunk L - Update

Kijun,

The reasons for the denied deferral request is as follows.

- With ground water possible at 78' and depth of contamination between Surface and ~39' the possible distance to interfacing with ground water is only 40' which could cause a risk to ground water.
- OCD determination of causing a major facility deconstruction is for sites typically that have permanent foundations/features. Examples of this would be Tank battery's located in concrete containment barriers, Pipeline/electrical lines located in facilities that have concrete/I-beam supports, buildings with permanent foundations etc. Facility/System shutdowns are not considered major facility deconstruction.
- Natural degradation is not an approved OCD remediation method.

As mentioned on the phone with Mr. Jones if Harvest disagrees with the Divisions determination of the remediation plan Harvest may request a hearing per 19.15.29.12 C(5) NMAC

If you have any additional questions I can be contacted and the number below.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115

cory.smith@state.nm.us

From: Kijun Hong <khong@harvestmidstream.com>
Sent: Thursday, May 2, 2019 10:52 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: bherb@ltenv.com; Joseph Pruitt <jpruitt@harvestmidstream.com>; Lloyd Bell <lbell@harvestmidstream.com>
Subject: [EXT] RE: [EXTERNAL] RE: Harvest Midstream - Trunk L - Update

Cory,
Could you please provide more explanation on the reasoning for denial?

We are planning on repairing the liner next week. Also, given the new depth to ground water data, we are still fully delineated and there is no change in the closure criteria for GRO+DRO. The only closure standards we exceed are for GRO+DRO directly under the tank (BH1 and BH7). These samples came in at 1,230 mg/kg and 1,310 mg/kg respectively against the closure standard of 1,000mg/kg.

Breaking down NMOCD's regulations, Harvest has met all conditions for deferral:

- "If contamination is located in areas immediately under or around production equipment such as production tanks"
- "where remediation could cause a major facility deconstruction"
- "so long as the contamination is fully delineated"
- "and does not cause an imminent risk to human health, the environment, or ground water."

Respectfully,
Kijun

From: Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]
Sent: Thursday, May 02, 2019 9:53 AM
To: Kijun Hong <khong@harvestmidstream.com>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>
Cc: bherb@ltenv.com; Joseph Pruitt <jpruitt@harvestmidstream.com>; Lloyd Bell <lbell@harvestmidstream.com>
Subject: RE: [EXTERNAL] RE: Harvest Midstream - Trunk L - Update

Kijun,

The current liner integrity has already been compromised. Ground water is estimated to be at 78' based on a cathodic well report located on the HEC San Juan 28-5 #48 (30-039-07361).

The OCD has denied the deferral request and additional remediation will be required.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Kijun Hong <khong@harvestmidstream.com>

Sent: Wednesday, May 1, 2019 11:27 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>

Cc: bherb@ltenv.com; Joseph Pruitt <jpruitt@harvestmidstream.com>; Lloyd Bell <lbell@harvestmidstream.com>

Subject: [EXT] RE: [EXTERNAL] RE: Harvest Midstream - Trunk L - Update

Cory,

Harvest is proposing to leave the impacted soil in place for several reasons:

1. There are currently 4 aboveground storage tanks and one below grade storage tank that would have to be removed from service in order to dig out impacted soil or install a remediation system. These tanks are associated with the Trunk L facility and their removal would cause major facility deconstruction.
2. The containment is lined and in situ remediation would affect the existing liner.
3. Deferring remediation does not cause an imminent risk to human health, the environment, or groundwater.
 - a. Groundwater is estimated to be deep and unlikely to be affected by the impacted soil.
 - b. Concentrations of DRO/GRO only exceed the NMOCD closure criteria by 310 mg/kg in one sample and are fully delineated laterally and vertically.
 - c. No impacts were observed outside the extent of the containment. A new liner will act as a cap over the impacted soil which will cover surface impact and the possibility of impact to surface water.
 - d. The liner will help prevent migration of the impacts vertically within the subsurface.

In response to your questions, the insitu remediation proposed is natural degradation with a low potential for migration based on the above assessment.

Harvest estimates that these tanks will be in place for approximately 30 years.

From: Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]

Sent: Friday, April 26, 2019 1:06 PM

To: Kijun Hong <khong@harvestmidstream.com>

Cc: bherb@ltenv.com; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>

Subject: [EXTERNAL] RE: Harvest Midstream - Trunk L - Update

Kijun,

Looking at the deferral request, How come Harvest did not investigate any insitu remediation options? I did not see a provided reason why the equipment can be moved and or temporary tanks cant be set?

What is the time line for the station to be abandoned if the deferral is granted? ?

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Sent: Tuesday, March 12, 2019 2:49 PM

To: Kijun Hong <khong@harvestmidstream.com>

Cc: bherb@ltenv.com; Powell, Brandon, EMNRD <Brandon.Powell@state.nm.us>; Smith, Cory, EMNRD <Cory.Smith@state.nm.us>

Subject: RE: Harvest Midstream - Trunk L - Update

Good afternoon Kijun,

The OCD grants Harvest an 30 day extension to remediate the referenced release. The final C-141 shall be submitted to the OCD by the close of business on April 12, 2019.

Thank you,

Vanessa Fields
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 119
Cell: (505) 419-0463
vanessa.fields@state.nm.us

From: Kijun Hong <khong@harvestmidstream.com>
Sent: Tuesday, March 12, 2019 1:30 PM
To: Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: bherb@ltenv.com
Subject: [EXT] Harvest Midstream - Trunk L - Update

Vanessa,

On December 14, 2018, approximately 22 barrels (bbl) of condensate overflowed from an aboveground tank in a tank battery associated with, and just south of the Trunk L facility. The release was contained within the lined secondary containment and 22 bbl of condensate were removed via vacuum truck upon discovery of the release. An initial C-141 was submitted on December 28, 2018, and NMOCD assigned the release incident number nVF1900731813.

Due to snow and ice accumulation, a preliminary liner inspection was delayed until 2/5/2019. During the liner inspection, small holes were observed in the liner. The liner was pulled back and stained soil was observed to at least 1 foot below ground surface. Ten soil samples were collected from beneath the liner for field screening using a photoionization detector (PID). The PID measurements ranged from 187 parts per million (ppm) to 6,519 ppm. Further investigation and delineation of the release has been delayed due to poor weather, road conditions, and continued pooling snow and water within the containment.

Harvest has decided to retain a consultant to conduct a more detailed investigation. As a result of the liquids accumulation, Harvest is requesting an extension to the 90-day requirement for site characterization or closure reporting required in 19.15.29.11.A NMAC. The 90-day deadline is March 14, 2019. Harvest requests an extension until March 31, 2019. Harvest intends to have a vacuum truck onsite Wednesday March 13, 2019 to remove any standing precipitation in the containment area. LT Environmental will be onsite immediately afterward on Wednesday March 13, 2019, to delineate vertical and horizontal impacts to soil via hand auger. Soil samples will be submitted to Hall Analytical Laboratories for analysis of TPH, BTEX, and chloride. Based on results of analytical analysis, Harvest will submit a comprehensive remediation plan by the extension deadline. If LT Environmental encounters refusal or is unable to obtain vertical extent via hand auger, a follow up email will be submitted to the NMOCD detailing the attempt and the next course of action.

Incident ID	NVF1900731813.
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> 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.
Printed Name: <u>Kijun Hong</u> Title: <u>Environmental Specialist</u> Signature:  Date: <u>12/28/2018</u> email: <u>khong@harvestmidstream.com</u> Telephone: <u>505-436-8457</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	NVF1900731813.
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____
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 1/2-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.

State of New Mexico
Oil Conservation Division

Incident ID	NVF1900731813.
District RP	
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Application ID	

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: Kijun Hong

Title: Environmental Specialist

Signature: _____



Date: 5/31/2019

email: khong@harvestmidstream.com

Telephone: 505-632-4475

OCD Only

Received by: _____

Date: _____

Incident ID	NVF1900731813.
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Kijun Hong

Title: Environmental Specialist

Signature: _____  _____

Date: 5/31/2019

email: khong@harvestmidstream.com

Telephone: (505) 632-4475

OCD Only

Received by: GOOIT _____

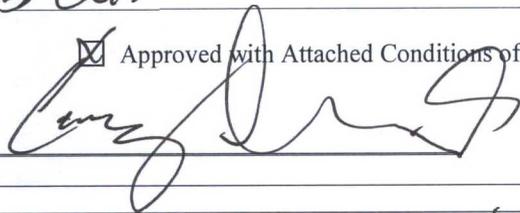
Date: 5/31/19

Approved

Approved with Attached Conditions of Approval

Denied

Deferral Approved

Signature: _____  _____

Date: 6/21/19

COA : Sent via email 5. Attached.

May 31, 2019

Mr. Cory Smith
Environmental Specialist
New Mexico Oil Conservation Division
1000 Rio Brazos
Aztec, New Mexico

**RE: Remediation Work Plan
Trunk L Tank Battery
Harvest Four Corners, LLC
Incident Number NVF1900731813
Rio Arriba, New Mexico**

Dear Mr. Smith:

LT Environmental, Inc. (LTE), on behalf of Harvest Four Corners, LLC (Harvest), presents the following remediation work plan associated with subsurface petroleum hydrocarbon impacts encountered at the Trunk L tank battery (Site). The Site is located in Unit A, Section 28, Township 28 North, Range 5 West, in Rio Arriba County, New Mexico (Figure 1).

This remediation work plan is being submitted in response to a rejection on May 2, 2019, by the New Mexico Oil Conservation Division (NMOCD) of a deferral request submitted on April 12, 2019. The site history, and previous delineation of petroleum hydrocarbon impacts to soil were described in the previously submitted report. This remediation work plan was prepared to address the concerns characterized by the NMOCD, as elevated levels of combined total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO) remaining in the subsurface within the secondary containment. There is also possible groundwater at 78 feet below ground surface (bgs) based on a deep-ground bed cathodic well protection well located at Hilcorp Energy Corporation gas well San Juan 28-5 Unit No. 048.

BACKGROUND

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), as described in the *Closure Request* submitted April 12, 2019. The following NMOCD Table 1 closure criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 2,500 mg/kg TPH; 1,000 mg/kg combined GRO and DRO; and 10,000 mg/kg chloride.

Soil samples collected during delineation activities were primarily composed of clayey sand to sandy lithologies. Field-identified soil impacts consisting of petroleum hydrocarbon odors and





elevated field screening results were observed in soil sample locations BH01 and BH-7. Laboratory analytical results confirmed field observations and indicated that two soil samples exceeded the NMOCD Table 1 closure criteria of 1,000 mg/kg combined GRO and DRO:

- BH01 at 20 feet bgs; and
- BH-7 at 8 feet to 10 feet bgs.

Soil sample locations and laboratory analytical results are illustrated on Figure 2.

PROPOSED REMEDIATION PLAN

Soil vapor extraction (SVE) is being proposed to remediate the petroleum hydrocarbon impacts to soil. SVE technology remediates petroleum hydrocarbon impacts *in situ* by applying a vacuum to wells drilled into the impacted area. The applied vacuum initiates air flow from the subsurface and into the SVE wells. The subsurface air flow enhances petroleum hydrocarbon volatilization, and the vapors are pulled out by a blower/vacuum pump at the surface. The removed petroleum hydrocarbons are typically emitted directly into the atmosphere unless air permitting thresholds or sensitive receptors require air treatment for petroleum hydrocarbon removal.

To remediate the petroleum hydrocarbon impacts to soil, LTE initially proposes installing six SVE wells with screened intervals ranging from 5 feet to 40 feet bgs. The SVE wells will be nested, with three separate boreholes containing two SVE wells each. Based on the observed lithology at the Site, a conservative radius of influence of approximately 27.5 feet was used for each remediation well in the SVE design. The remediation system layout is depicted on Figure 3, and the screened intervals for each remediation well is detailed in the following table:

Well ID	Screened Interval (feet bgs)
SVE01	5 to 15
SVE02	25 to 35
SVE03	10 to 20
SVE04	30 to 40
SVE05	5 to 15
SVE06	25 to 35

LTE proposes using solar power for the SVE system due to the remoteness and the lack of sufficient electrical supply at the Site. The SVE wells will be connected via aboveground piping to a 2.75 horsepower blower capable of producing 105 cubic feet per minute (cfm) at 50 inches of water column vacuum, with a maximum vacuum capability of 84 inches of water column.





Each SVE well will have its own adjustable valve and vacuum gauge on a manifold to control flows.

The blower will be powered by ten solar panels with a nominal maximum power output of 3,050 watts. The blower is connected to the solar panels via a motor controller that automatically starts the system as soon as there is sunlight available and throttles the blower up as sun power increases throughout the day to maximize efficiency. Seasonally, there is approximately ten hours in the winter and 12 hours in the summer of solar power available in Farmington, New Mexico. The complete solar SVE system is constructed as one unit designed for potential remediation use at other off-grid locations and can operate completely autonomous.

TIMELINE

The following timeline is proposed with day zero being the day this workplan receives approval.

- Installing six SVE wells - 30 days; and
- Installing and starting the solar SVE system - 90 days.

Quarterly reporting will be conducted after installing the SVE system to inform NMOCD on major site advancements and solar SVE system operations. Quarterly reports will document petroleum hydrocarbon mass recovery, system runtime, and gas sample analysis. An annual gas sample will be collected from the SVE system stack and submitted for analysis of full volatile organic compounds (VOCs) by United States Environmental Protection Agency Method 8260. Additional quarterly gas samples will be collected and analyzed for BTEX and TPH. Air samples will be field screened with a photo-ionization detector for VOCs.

LTE recommends observing VOCs and/or air samples from each SVE well periodically to assess system performance and effectiveness. Initially, biweekly visits to check system operations and conduct any necessary maintenance will be conducted. After 2 months, visits will be reduced to a monthly frequency.

Once a decline in VOCs is observed and indicates that petroleum hydrocarbon impacts have been reduced, Harvest will conduct additional soil sampling to investigate potential residual subsurface impacts and request closure or additional system operations based on the results. LTE anticipates one year of operation to obtain site closure. LTE will use a hollow-stem auger soil boring and sampling program using a CME 55 drill rig to advance two boreholes to approximately 40 feet bgs. Boreholes will be in locations approximately equidistant between SVE borehole locations to confirm successful remediation and will be used as confirmation closure samples. Discrete soil samples will be collected every five feet from immediately beneath the ground surface to total depth and field screened for VOCs. Soil samples with the





highest observed field screening and the terminus of the boring will be collected and submitted for laboratory analysis of BTEX, TPH, and chloride.

Should the final confirmation soil samples be compliant with the NMOCD Table 1 closure criteria, LTE will summarize the laboratory analysis and sampling activities in a subsequent report requesting closure of the release event. Should the results indicate soil impacts exceed NMOCD Table 1 closure criteria, LTE will continue to operate the system and potentially make adjustments base on the results of the investigation.

We look forward to your review of this report and subsequent approval of the remediation approach. If you have any questions or comments, please do not hesitate to contact Mr. Danny Burns at (970) 385-1096 or dburns@ltenv.com.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in black ink that reads 'D. Burns'.

Danny Burns
Project Geologist

A handwritten signature in black ink that reads 'Ashley L. Ager'.

Ashley Ager, P.G.
Senior Geologist

Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Soil Analytical Results
- Figure 3 – SVE System Layout
- Table 1 – Soil Analytical Results
- Attachment 1 – Laboratory Analytical Reports



FIGURES

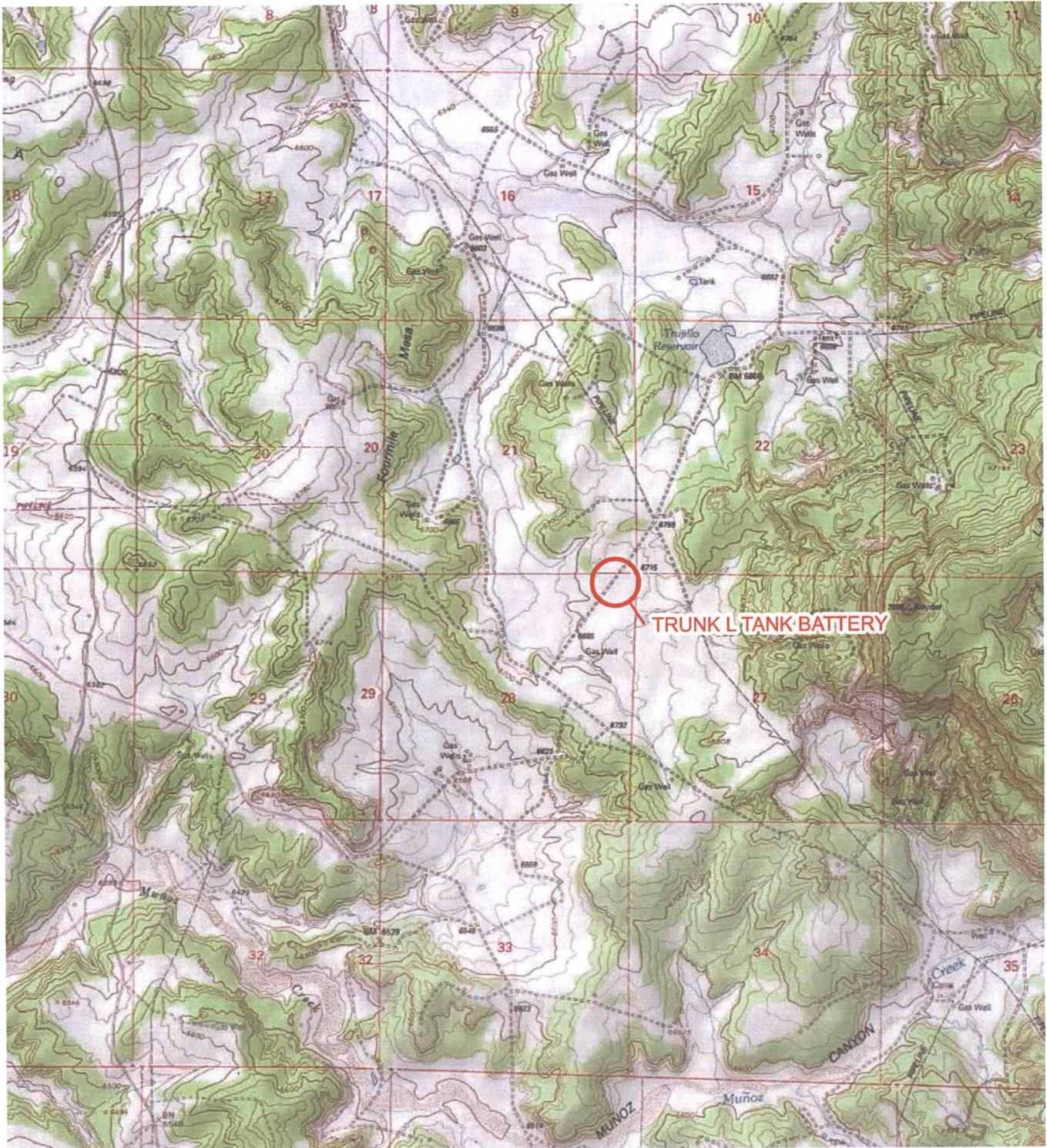


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

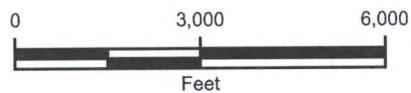


FIGURE 1
 SITE LOCATION MAP
 TRUNK L TANK BATTERY
 NENE SEC 28 T28N R5W
 RIO ARRIBA COUNTY, NEW MEXICO
 HARVEST FOUR CORNERS, LLC



SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 SAMPLE DATE
 B: BENZENE IN MILLIGRAMS PER KILOGRAM (mg/kg)
 BTEX: TOTAL BTEX (mg/kg)
 GRO+DRO: GASOLINE RANGE AND DIESEL RANGE ORGANICS (mg/kg)
 TPH: TOTAL PETROLEUM HYDROCARBONS (mg/kg)
 Cl: CHLORIDE (mg/kg)
BOLD: INDICATES RESULT EXCEEDS THE APPLICABLE STANDARD
 <: INDICATES RESULT IS LESS THAN THE LABORATORY REPORTING LIMIT

BH-11@30-32' 4/9/2019 B: <0.020 BTEX: <0.181 GRO+DRO: 13 TPH: 13 Cl: <60	BH-11@40-42' 4/9/2019 B: <0.020 BTEX: <0.179 GRO+DRO: <13.9 TPH: <63.9 Cl: <60
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BH01@6' 03/14/2019 B: <0.17 BTEX: 29.3 GRO+DRO: 940 TPH: 940 Cl: 200	BH01@20' 03/14/2019 B: <0.096 BTEX: 46.2 GRO+DRO: 1,230 TPH: 1,230 Cl: 160
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BH05@6' 03/13/2019 B: <0.016 BTEX: <0.145 GRO+DRO: <13.1 TPH: <62.1 Cl: <60	BH05@15' 03/13/2019 B: <0.017 BTEX: <0.149 GRO+DRO: <12.8 TPH: <59.8 Cl: <60
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BH-10@35-37' 4/9/2019 B: <0.022 BTEX: 0.26 GRO+DRO: <14.0 TPH: <62 Cl: <60	BH-10@40-42' 4/9/2019 B: 0.26 BTEX: 7.96 GRO+DRO: 242 TPH: 242 Cl: <60
--	--

BH02@0.5' 03/13/2019 B: <0.022 BTEX: <0.197 GRO+DRO: <14.1 TPH: <63.1 Cl: <60	BH02@15' 03/13/2019 B: <0.017 BTEX: <0.150 GRO+DRO: <13.2 TPH: <62.2 Cl: <60
---	--

BH-7@8-10' 3/26/2019 B: <0.12 BTEX: 30.8 GRO+DRO: 1,310 TPH: 1,310 Cl: 120	BH-7@40' 3/27/2019 B: <0.095 BTEX: 5.21 GRO+DRO: 316 TPH: 316 Cl: 95
--	--

BH-8@30-32' 4/8/2019 B: <0.020 BTEX: <0.180 GRO+DRO: <13.9 TPH: <63.9 Cl: <60	BH-8@40-42' 4/8/2019 B: <0.019 BTEX: <0.170 GRO+DRO: <13.6 TPH: <62.6 Cl: <60
---	---

BH06@6' 03/13/2019 B: <0.023 BTEX: 3.3 GRO+DRO: 132 TPH: 132 Cl: <60
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BH-9@27-30' 4/8/2019 B: <0.019 BTEX: <0.175 GRO+DRO: <13.7 TPH: <62.7 Cl: <59	BH-9@40-42' 4/8/2019 B: <0.023 BTEX: <0.204 GRO+DRO: <14.5 TPH: <64.5 Cl: <60
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BH03@0.5' 03/13/2019 B: <0.015 BTEX: <0.138 GRO+DRO: <12.6 TPH: <60.6 Cl: <60	BH03@15' 03/13/2019 B: <0.020 BTEX: <0.177 GRO+DRO: <13.6 TPH: <62.6 Cl: <60
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BH06@14' 03/13/2019 B: <0.016 BTEX: 0.061 GRO+DRO: <13.0 TPH: <62.0 Cl: <60

BH04@4' 03/13/2019 B: <0.022 BTEX: <0.199 GRO+DRO: <14.0 TPH: <62.0 Cl: <60	BH04@15' 03/13/2019 B: <0.014 BTEX: <0.127 GRO+DRO: <12.6 TPH: <61.6 Cl: <60
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COUNTY ROAD 516

LEGEND

- HOLLOW-STEM BOREHOLE
- ▲ HAND AUGER BOREHOLE

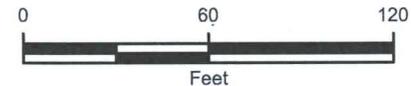


IMAGE COURTESY OF ESRI

FIGURE 2
 SOIL ANALYTICAL RESULTS
 TRUNK L TANK BATTERY
 NENE SEC 28 T28N R5W
 RIO ARRIBA COUNTY, NEW MEXICO
 HARVEST FOUR CORNERS, LLC





IMAGE COURTESY OF ESRI

LEGEND

- HOLLOW-STEM BOREHOLE
- ▲ HAND AUGER BOREHOLE
- NESTED SOIL VAPOR EXTRACTION WELL (SVE)
- ABOVEGROUND REMEDIATION SYSTEM LINE
- 27.5 FOOT RADIUS OF INFLUENCE
- ▩ SOLAR SVE SKID

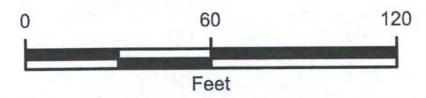


FIGURE 3
 SVE SYSTEM LAYOUT
 TRUNK L TANK BATTERY
 NENE SEC 28 T28N R5W
 RIO ARRIBA COUNTY, NEW MEXICO
 HARVEST FOUR CORNERS, LLC



TABLES

TABLE 1
SOIL ANALYTICAL RESULTS

TRUNK L TANK BATTERY
RIO ARRIBA COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Soil Boring	Sample Date	Depth (feet)	Vapor (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	Combined GRO, DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
Hand Auger Boreholes														
BH01	3/14/2019	6	2,196	<0.17	5.9	1.4	22	29.3	870	70	940	<49	940	200
BH01	3/14/2019	20	1,910	<0.096	13	2.2	31	46.2	1,100	130	1,230	<48	1,230	160
BH02	3/13/2019	0.5	0.2	<0.022	<0.044	<0.044	<0.087	<0.197	<4.4	<9.7	<14.1	<49	<63.1	<60
BH02	3/13/2019	15	0.0	<0.017	<0.033	<0.033	<0.067	<0.150	<3.3	<9.9	<13.2	<49	<62.2	<60
BH03	3/13/2019	0.5	0.4	<0.015	<0.031	<0.031	<0.061	<0.138	<3.1	<9.5	<12.6	<48	<60.6	<60
BH03	3/13/2019	15	0.1	<0.020	<0.039	<0.039	<0.079	<0.177	<3.9	<9.7	<13.6	<49	<62.6	<60
BH04	3/13/2019	4	0.7	<0.022	<0.044	<0.044	<0.089	<0.199	<4.4	<9.6	<14.0	<48	<62.0	<60
BH04	3/13/2019	15	0.1	<0.014	<0.028	<0.028	<0.057	<0.127	<2.8	<9.8	<12.6	<49	<61.6	<60
BH05	3/13/2019	6	0.7	<0.016	<0.032	<0.032	<0.065	<0.145	<3.2	<9.9	<13.1	<49	<62.1	<60
BH05	3/13/2019	15	0.2	<0.017	<0.033	<0.033	<0.066	<0.149	<3.3	<9.5	<12.8	<47	<59.8	<60
BH06	3/13/2019	6	273.5	<0.023	0.39	0.11	2.8	3.3	120	12	132	<48	132	<60
BH06	3/13/2019	14	7.6	<0.016	0.061	<0.032	<0.064	0.061	<3.2	<9.8	<13.0	<49	<62.0	<60
Hollow-stem Boreholes														
BH-7	3/26/2019	8-10	2,359	<0.12	4.3	1.5	25	30.8	1,000	310	1,310	<50	1,310	120
BH-7	3/27/2019	40	1,981	<0.095	1.4	0.21	3.6	5.21	230	86	316	<48	316	95
BH-8	4/8/2019	30-32	34.3	<0.020	<0.040	<0.040	<0.080	<0.180	<4.0	<9.9	<13.9	<50	<63.9	<60
BH-8	4/8/2019	40-42	10.9	<0.019	<0.038	<0.038	<0.075	<0.170	<3.8	<9.8	<13.6	<49	<62.6	<60
BH-9	4/8/2019	27-30	38.2	<0.019	<0.039	<0.039	<0.078	<0.175	<3.9	<9.8	<13.7	<49	<62.7	<59
BH-9	4/8/2019	40-42	22.0	<0.023	<0.045	<0.045	<0.091	<0.204	<4.5	<10	<14.5	<50	<64.5	<60
BH-10	4/9/2019	35-37	379.4	<0.022	0.13	<0.044	0.13	0.26	<4.4	<9.6	<14.0	<48	<62	<60
BH-10	4/9/2019	40-42	404.2	0.26	2.9	<0.38	4.8	7.96	210	32	242	<49	242	<60
BH-11	4/9/2019	30-32	24.8	<0.020	<0.040	<0.040	<0.081	<0.181	<4.0	13	13	<48	13	<60
BH-11	4/9/2019	40-42	21.4	<0.020	<0.040	<0.040	<0.079	<0.179	<4.0	<9.9	<13.9	<50	<63.9	<60
NMOCD Table 1 Closure Criteria				10	NE	NE	NE	50	NE	NE	1,000	NE	2,500	5,000

NOTES:

BTEX - benzene, toluene, ethylbenzene, total xylenes
DRO - diesel range organics
GRO - gasoline range organics
mg/kg - milligrams per kilogram

MRO - motor oil range organics
NE - not established
NMOCD - New Mexico Oil Conservation Division
ppm - parts per million

TPH - total petroleum hydrocarbons
Bold - indicates value exceeds stated NMOCD standard
< - indicates value is less than stated laboratory reporting limit



ATTACHMENT 1: LABORATORY ANALYTICAL REPORTS



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

March 21, 2019

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Trunk L Delineation

OrderNo.: 1903784

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/16/2019 for the analyses presented in the following report.

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. In order to properly interpret your results, it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

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 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH02 @ 0.5'

Project: Trunk L Delineation

Collection Date: 3/13/2019 11:30:00 AM

Lab ID: 1903784-001

Matrix: MEOH (SOIL) Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 5:58:45 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	3/18/2019 3:32:05 PM	G58448
Surr: BFB	103	70-130		%Rec	1	3/18/2019 3:32:05 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/19/2019 9:39:16 AM	43721
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/19/2019 9:39:16 AM	43721
Surr: DNOP	114	70-130		%Rec	1	3/19/2019 9:39:16 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	3/18/2019 3:32:05 PM	SLS5844
Toluene	ND	0.044		mg/Kg	1	3/18/2019 3:32:05 PM	SLS5844
Ethylbenzene	ND	0.044		mg/Kg	1	3/18/2019 3:32:05 PM	SLS5844
Xylenes, Total	ND	0.087		mg/Kg	1	3/18/2019 3:32:05 PM	SLS5844
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	3/18/2019 3:32:05 PM	SLS5844
Surr: Toluene-d8	97.7	70-130		%Rec	1	3/18/2019 3:32:05 PM	SLS5844

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 Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH02 @ 15'

Project: Trunk L Delineation

Collection Date: 3/13/2019 12:00:00 PM

Lab ID: 1903784-002

Matrix: MEOH (SOIL)

Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 6:11:10 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	3/18/2019 4:00:31 PM	G58448
Surr: BFB	101	70-130		%Rec	1	3/18/2019 4:00:31 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/19/2019 10:25:00 AM	43721
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/19/2019 10:25:00 AM	43721
Surr: DNOP	111	70-130		%Rec	1	3/19/2019 10:25:00 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.017		mg/Kg	1	3/18/2019 4:00:31 PM	SLS5844
Toluene	ND	0.033		mg/Kg	1	3/18/2019 4:00:31 PM	SLS5844
Ethylbenzene	ND	0.033		mg/Kg	1	3/18/2019 4:00:31 PM	SLS5844
Xylenes, Total	ND	0.067		mg/Kg	1	3/18/2019 4:00:31 PM	SLS5844
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	3/18/2019 4:00:31 PM	SLS5844
Surr: Toluene-d8	94.9	70-130		%Rec	1	3/18/2019 4:00:31 PM	SLS5844

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 Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH03 @ 0.5'

Project: Trunk L Delineation

Collection Date: 3/13/2019 1:06:00 PM

Lab ID: 1903784-003

Matrix: MEOH (SOIL)

Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 6:23:34 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	3/18/2019 4:29:02 PM	G58448
Surr: BFB	104	70-130		%Rec	1	3/18/2019 4:29:02 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/19/2019 10:46:55 AM	43721
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/19/2019 10:46:55 AM	43721
Surr: DNOP	115	70-130		%Rec	1	3/19/2019 10:46:55 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.015		mg/Kg	1	3/18/2019 4:29:02 PM	SLS5844
Toluene	ND	0.031		mg/Kg	1	3/18/2019 4:29:02 PM	SLS5844
Ethylbenzene	ND	0.031		mg/Kg	1	3/18/2019 4:29:02 PM	SLS5844
Xylenes, Total	ND	0.061		mg/Kg	1	3/18/2019 4:29:02 PM	SLS5844
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	3/18/2019 4:29:02 PM	SLS5844
Surr: Toluene-d8	99.1	70-130		%Rec	1	3/18/2019 4:29:02 PM	SLS5844

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 Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH03 @ 15'

Project: Trunk L Delineation

Collection Date: 3/13/2019 1:50:00 PM

Lab ID: 1903784-004

Matrix: MEOH (SOIL)

Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 6:35:59 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	3/18/2019 4:57:46 PM	G58448
Surr: BFB	101	70-130		%Rec	1	3/18/2019 4:57:46 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: IRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/19/2019 11:09:00 AM	43721
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/19/2019 11:09:00 AM	43721
Surr: DNOP	104	70-130		%Rec	1	3/19/2019 11:09:00 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	3/18/2019 4:57:46 PM	SLS5844
Toluene	ND	0.039		mg/Kg	1	3/18/2019 4:57:46 PM	SLS5844
Ethylbenzene	ND	0.039		mg/Kg	1	3/18/2019 4:57:46 PM	SLS5844
Xylenes, Total	ND	0.079		mg/Kg	1	3/18/2019 4:57:46 PM	SLS5844
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	3/18/2019 4:57:46 PM	SLS5844
Surr: Toluene-d8	93.6	70-130		%Rec	1	3/18/2019 4:57:46 PM	SLS5844

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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH04 @ 4'

Project: Trunk L Delineation

Collection Date: 3/13/2019 11:20:00 AM

Lab ID: 1903784-005

Matrix: MEOH (SOIL)

Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 6:48:23 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	3/18/2019 5:26:25 PM	G58448
Surr: BFB	101	70-130		%Rec	1	3/18/2019 5:26:25 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/19/2019 11:30:59 AM	43721
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/19/2019 11:30:59 AM	43721
Surr: DNOP	107	70-130		%Rec	1	3/19/2019 11:30:59 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	3/18/2019 5:26:25 PM	SLS5844
Toluene	ND	0.044		mg/Kg	1	3/18/2019 5:26:25 PM	SLS5844
Ethylbenzene	ND	0.044		mg/Kg	1	3/18/2019 5:26:25 PM	SLS5844
Xylenes, Total	ND	0.089		mg/Kg	1	3/18/2019 5:26:25 PM	SLS5844
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	3/18/2019 5:26:25 PM	SLS5844
Surr: Toluene-d8	95.8	70-130		%Rec	1	3/18/2019 5:26:25 PM	SLS5844

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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH04 @ 15'

Project: Trunk L Delineation

Collection Date: 3/13/2019 11:40:00 AM

Lab ID: 1903784-006

Matrix: MEOH (SOIL) Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 7:00:48 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	3/18/2019 5:55:01 PM	G58448
Surr: BFB	97.7	70-130		%Rec	1	3/18/2019 5:55:01 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/19/2019 11:53:06 AM	43721
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/19/2019 11:53:06 AM	43721
Surr: DNOP	110	70-130		%Rec	1	3/19/2019 11:53:06 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.014		mg/Kg	1	3/18/2019 5:55:01 PM	SLS5844
Toluene	ND	0.028		mg/Kg	1	3/18/2019 5:55:01 PM	SLS5844
Ethylbenzene	ND	0.028		mg/Kg	1	3/18/2019 5:55:01 PM	SLS5844
Xylenes, Total	ND	0.057		mg/Kg	1	3/18/2019 5:55:01 PM	SLS5844
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	3/18/2019 5:55:01 PM	SLS5844
Surr: Toluene-d8	92.9	70-130		%Rec	1	3/18/2019 5:55:01 PM	SLS5844

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 Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH05 @ 6'

Project: Trunk L Delineation

Collection Date: 3/13/2019 1:30:00 PM

Lab ID: 1903784-007

Matrix: MEOH (SOIL)

Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 7:38:00 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	3/18/2019 6:23:33 PM	G58448
Surr: BFB	100	70-130		%Rec	1	3/18/2019 6:23:33 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/19/2019 10:01:56 AM	43721
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/19/2019 10:01:56 AM	43721
Surr: DNOP	95.7	70-130		%Rec	1	3/19/2019 10:01:56 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.016		mg/Kg	1	3/18/2019 6:23:33 PM	SLS5844
Toluene	ND	0.032		mg/Kg	1	3/18/2019 6:23:33 PM	SLS5844
Ethylbenzene	ND	0.032		mg/Kg	1	3/18/2019 6:23:33 PM	SLS5844
Xylenes, Total	ND	0.065		mg/Kg	1	3/18/2019 6:23:33 PM	SLS5844
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/18/2019 6:23:33 PM	SLS5844
Surr: Toluene-d8	93.7	70-130		%Rec	1	3/18/2019 6:23:33 PM	SLS5844

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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH05 @ 15'

Project: Trunk L Delineation

Collection Date: 3/13/2019 2:00:00 PM

Lab ID: 1903784-008

Matrix: MEOH (SOIL)

Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 7:50:25 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	3/18/2019 6:51:58 PM	G58448
Surr: BFB	99.7	70-130		%Rec	1	3/18/2019 6:51:58 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/19/2019 10:25:44 AM	43721
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/19/2019 10:25:44 AM	43721
Surr: DNOP	97.8	70-130		%Rec	1	3/19/2019 10:25:44 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.017		mg/Kg	1	3/18/2019 6:51:58 PM	SLS5844
Toluene	ND	0.033		mg/Kg	1	3/18/2019 6:51:58 PM	SLS5844
Ethylbenzene	ND	0.033		mg/Kg	1	3/18/2019 6:51:58 PM	SLS5844
Xylenes, Total	ND	0.066		mg/Kg	1	3/18/2019 6:51:58 PM	SLS5844
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/18/2019 6:51:58 PM	SLS5844
Surr: Toluene-d8	96.9	70-130		%Rec	1	3/18/2019 6:51:58 PM	SLS5844

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 Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH01 @ 6'

Project: Trunk L Delineation

Collection Date: 3/14/2019 1:20:00 PM

Lab ID: 1903784-009

Matrix: MEOH (SOIL) Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	200	60		mg/Kg	20	3/18/2019 8:02:49 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	870	35		mg/Kg	10	3/18/2019 7:20:34 PM	G58448
Surr: BFB	102	70-130		%Rec	10	3/18/2019 7:20:34 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: irm
Diesel Range Organics (DRO)	70	9.8		mg/Kg	1	3/19/2019 12:15:08 PM	43721
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/19/2019 12:15:08 PM	43721
Surr: DNOP	117	70-130		%Rec	1	3/19/2019 12:15:08 PM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.17		mg/Kg	10	3/18/2019 7:20:34 PM	SLS5844
Toluene	5.9	0.35		mg/Kg	10	3/18/2019 7:20:34 PM	SLS5844
Ethylbenzene	1.4	0.35		mg/Kg	10	3/18/2019 7:20:34 PM	SLS5844
Xylenes, Total	22	0.69		mg/Kg	10	3/18/2019 7:20:34 PM	SLS5844
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	10	3/18/2019 7:20:34 PM	SLS5844
Surr: Toluene-d8	98.3	70-130		%Rec	10	3/18/2019 7:20:34 PM	SLS5844

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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH01 @ 20'

Project: Trunk L Delineation

Collection Date: 3/14/2019 2:40:00 PM

Lab ID: 1903784-010

Matrix: MEOH (SOIL)

Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	160	60		mg/Kg	20	3/18/2019 8:15:14 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	1100	19		mg/Kg	5	3/18/2019 7:49:12 PM	G58448
Surr: BFB	103	70-130		%Rec	5	3/18/2019 7:49:12 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	130	9.7		mg/Kg	1	3/19/2019 11:13:33 AM	43721
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/19/2019 11:13:33 AM	43721
Surr: DNOP	97.6	70-130		%Rec	1	3/19/2019 11:13:33 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.096		mg/Kg	5	3/18/2019 7:49:12 PM	SLS5844
Toluene	13	0.19		mg/Kg	5	3/18/2019 7:49:12 PM	SLS5844
Ethylbenzene	2.2	0.19		mg/Kg	5	3/18/2019 7:49:12 PM	SLS5844
Xylenes, Total	31	0.38		mg/Kg	5	3/18/2019 7:49:12 PM	SLS5844
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	5	3/18/2019 7:49:12 PM	SLS5844
Surr: Toluene-d8	99.2	70-130		%Rec	5	3/18/2019 7:49:12 PM	SLS5844

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 Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: BH06 @ 6'
 Project: Trunk L Delineation Collection Date: 3/14/2019 4:00:00 PM
 Lab ID: 1903784-011 Matrix: MEOH (SOIL) Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 8:27:38 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	120	4.7		mg/Kg	1	3/18/2019 8:17:45 PM	G58448
Surr: BFB	99.7	70-130		%Rec	1	3/18/2019 8:17:45 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	12	9.7		mg/Kg	1	3/19/2019 11:37:30 AM	43721
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/19/2019 11:37:30 AM	43721
Surr: DNOP	107	70-130		%Rec	1	3/19/2019 11:37:30 AM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/18/2019 8:17:45 PM	SLS5844
Toluene	0.39	0.047		mg/Kg	1	3/18/2019 8:17:45 PM	SLS5844
Ethylbenzene	0.11	0.047		mg/Kg	1	3/18/2019 8:17:45 PM	SLS5844
Xylenes, Total	2.8	0.093		mg/Kg	1	3/18/2019 8:17:45 PM	SLS5844
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	3/18/2019 8:17:45 PM	SLS5844
Surr: Toluene-d8	93.5	70-130		%Rec	1	3/18/2019 8:17:45 PM	SLS5844

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 Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1903784

Date Reported: 3/21/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH06 @ 14'

Project: Trunk L Delineation

Collection Date: 3/14/2019 4:30:00 PM

Lab ID: 1903784-012

Matrix: MEOH (SOIL)

Received Date: 3/16/2019 10:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	3/18/2019 8:40:02 PM	43728
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	3/18/2019 8:46:11 PM	G58448
Surr: BFB	101	70-130		%Rec	1	3/18/2019 8:46:11 PM	G58448
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/19/2019 12:01:30 PM	43721
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/19/2019 12:01:30 PM	43721
Surr: DNOP	98.5	70-130		%Rec	1	3/19/2019 12:01:30 PM	43721
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.016		mg/Kg	1	3/18/2019 8:46:11 PM	SLS5844
Toluene	0.061	0.032		mg/Kg	1	3/18/2019 8:46:11 PM	SLS5844
Ethylbenzene	ND	0.032		mg/Kg	1	3/18/2019 8:46:11 PM	SLS5844
Xylenes, Total	ND	0.064		mg/Kg	1	3/18/2019 8:46:11 PM	SLS5844
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/18/2019 8:46:11 PM	SLS5844
Surr: Toluene-d8	92.9	70-130		%Rec	1	3/18/2019 8:46:11 PM	SLS5844

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 Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903784

21-Mar-19

Client: Harvest
Project: Trunk L Delineation

Sample ID: MB-43728	SampType: mbk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 43728	RunNo: 58434								
Prep Date: 3/18/2019	Analysis Date: 3/18/2019	SeqNo: 1961763	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-43728	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 43728	RunNo: 58434								
Prep Date: 3/18/2019	Analysis Date: 3/18/2019	SeqNo: 1961764	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	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 Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903784

21-Mar-19

Client: Harvest
Project: Trunk L Delineation

Sample ID: LCS-43721	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 43721	RunNo: 58453								
Prep Date: 3/18/2019	Analysis Date: 3/19/2019	SeqNo: 1961839	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	63.9	124			
Surr: DNOP	5.8		5.000		115	70	130			

Sample ID: MB-43721	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 43721	RunNo: 58453								
Prep Date: 3/18/2019	Analysis Date: 3/19/2019	SeqNo: 1961840	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	11		10.00		114	70	130			

Sample ID: MB-43742	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 43742	RunNo: 58454								
Prep Date: 3/18/2019	Analysis Date: 3/19/2019	SeqNo: 1963736	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Sample ID: LCS-43742	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 43742	RunNo: 58454								
Prep Date: 3/18/2019	Analysis Date: 3/19/2019	SeqNo: 1963737	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.1	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 Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1903784
 21-Mar-19

Client: Harvest
Project: Trunk L Delineation

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: SLS58448	RunNo: 58448								
Prep Date:	Analysis Date: 3/18/2019	SeqNo: 1961815	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.6	70	130			
Toluene	0.94	0.050	1.000	0	94.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.2	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.8	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.6	70	130			
Surr: Toluene-d8	0.50		0.5000		99.0	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: SLS58448	RunNo: 58448								
Prep Date:	Analysis Date: 3/18/2019	SeqNo: 1961816	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		92.6	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		88.1	70	130			
Surr: Toluene-d8	0.50		0.5000		101	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 Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903784

21-Mar-19

Client: Harvest
Project: Trunk L Delineation

Sample ID: 1903784-001ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: BH02 @ 0.5'	Batch ID: G58448	RunNo: 58448								
Prep Date:	Analysis Date: 3/19/2019	SeqNo: 1961600	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.4	21.76	0	88.6	68.2	135			
Surr: BFB	450		435.2		103	70	130			

Sample ID: 1903784-001amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: BH02 @ 0.5'	Batch ID: G58448	RunNo: 58448								
Prep Date:	Analysis Date: 3/19/2019	SeqNo: 1961601	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.4	21.76	0	85.8	68.2	135	3.21	20	
Surr: BFB	440		435.2		101	70	130	0	0	

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: G58448	RunNo: 58448								
Prep Date:	Analysis Date: 3/18/2019	SeqNo: 1961613	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	92.6	70	130			
Surr: BFB	510		500.0		101	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: G58448	RunNo: 58448								
Prep Date:	Analysis Date: 3/18/2019	SeqNo: 1961614	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	510		500.0		102	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 Detection Limit
- W Sample container temperature is out of limit as specified



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: **Harvest**

Work Order Number: **1903784**

RcptNo: 1

Received By: **Erin Melendrez** 3/16/2019 10:50:00 AM

EM

Completed By: **Erin Melendrez** 3/16/2019 12:29:15 PM

EM

Reviewed By: LB 3/16/19

LB: _____

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° 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. VOA vials have zero headspace? Yes No No VOA Vials
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:	_____

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Yes			

Chain-of-Custody Record

Client: Harvest Midstream
 Mailing Address: 1775 Arroyo Drive

Phone #: 505-632-4415
 email or Fax#: khong@harvest.com
 QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other
 EDD (Type) PDF

Turn-Around Time: Not Day 3/19
 Standard Rush 2 day
 Project Name: Trunk L Delineation
 Project #: 09319022

Project Manager: Kijun Hong
 Sampler: Eric Carroll / Mary Madjoni
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CSI): 3 30c



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	☉ F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
3/13/19	11:30	Soil	ST BH02 @ 0.5'	1 4oz	COOL	-001	X	X					X			
	1200		BH02 @ 15'			-002	X	X					X			
	1300		BH03 @ 0.5'			-003	X	X					X			
	1350		BH03 @ 15'			-004	X	X					X			
	1120		BH04 @ 4'			-005	X	X					X			
	1140		BH04 @ 15'			-006	X	X					X			
	1330		BH05 @ 6'			-007	X	X					X			
	1400		BH05 @ 15'			-008	X	X					X			
3/14/19	1320		BH01 @ 6'			-009	X	X					X			
	1440		BH01 @ 20'			-010	X	X					X			
	1100		BH06 @ 6'			-011	X	X					X			
	1630		BH06 @ 14'			-012	X	X					X			

Date: 3/15/19 Time: 9:00 Relinquished by: Mary Madjoni
 Received by: [Signature] Via: _____ Date: 3/15/19 Time: 0900
 Date: 3/15/19 Time: 1515 Relinquished by: [Signature]
 Received by: [Signature] Via: _____ Date: 3/15/19 Time: 1535

Remarks: Please CC: bherb@henv.com
ecarroll@henv.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

3/15/19 1811 Christine Walker [Signature] 3/16/19 1050



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

April 16, 2019

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Trunk L

OrderNo.: 1904418

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/6/2019 for the analyses presented in the following report.

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. In order to properly interpret your results, it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1904418

Date Reported: 4/16/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
 Project: Trunk L
 Lab ID: 1904418-001

Matrix: SOIL

Client Sample ID: BH-7 @ 8-10'
 Collection Date: 3/26/2019 1:40:00 PM
 Received Date: 4/6/2019 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	120	60		mg/Kg	20	4/11/2019 1:28:01 PM	44293
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	1000	23	H	mg/Kg	5	4/12/2019 9:28:12 AM	44226
Surr: BFB	104	70-130	H	%Rec	5	4/12/2019 9:28:12 AM	44226
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	310	10		mg/Kg	1	4/11/2019 10:45:43 AM	44222
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/11/2019 10:45:43 AM	44222
Surr: DNOP	110	70-130		%Rec	1	4/11/2019 10:45:43 AM	44222
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.12	H	mg/Kg	5	4/12/2019 9:28:12 AM	44226
Toluene	4.3	0.23	H	mg/Kg	5	4/12/2019 9:28:12 AM	44226
Ethylbenzene	1.5	0.23	H	mg/Kg	5	4/12/2019 9:28:12 AM	44226
Xylenes, Total	25	0.46	H	mg/Kg	5	4/12/2019 9:28:12 AM	44226
Surr: 1,2-Dichloroethane-d4	87.2	70-130	H	%Rec	5	4/12/2019 9:28:12 AM	44226
Surr: 4-Bromofluorobenzene	98.7	70-130	H	%Rec	5	4/12/2019 9:28:12 AM	44226
Surr: Dibromofluoromethane	118	70-130	H	%Rec	5	4/12/2019 9:28:12 AM	44226
Surr: Toluene-d8	96.7	70-130	H	%Rec	5	4/12/2019 9:28:12 AM	44226

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

Qualifiers:	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit	PQL	Practical Quantitative Limit
	RL	Reporting Detection Limit	S	% Recovery outside of range due to dilution or matrix
	W	Sample container temperature is out of limit as specified at testcode		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1904418

16-Apr-19

Client: Harvest
Project: Trunk L

Sample ID MB-44293	SampType: mbk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 44293		RunNo: 59095							
Prep Date: 4/11/2019	Analysis Date: 4/11/2019		SeqNo: 1989134		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID LCS-44293	SampType: ics		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 44293		RunNo: 59095							
Prep Date: 4/11/2019	Analysis Date: 4/11/2019		SeqNo: 1989135		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

- | | | | |
|----|---|-----|---|
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | PQL | Practical Quantitative Limit |
| RL | Reporting Detection Limit | S | % Recovery outside of range due to dilution or matrix |
| W | Sample container temperature is out of limit as specified at testcode | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904418

16-Apr-19

Client: Harvest
Project: Trunk L

Sample ID	MB-44222	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	44222	RunNo:	59043					
Prep Date:	4/9/2019	Analysis Date:	4/10/2019	SeqNo:	1987392	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	9.5		10.00		94.9	70	130			

Sample ID	LCS-44222	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	44222	RunNo:	59043					
Prep Date:	4/9/2019	Analysis Date:	4/10/2019	SeqNo:	1987409	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.9		5.000		98.3	70	130			

Sample ID	MB-44276	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	44276	RunNo:	59065					
Prep Date:	4/10/2019	Analysis Date:	4/11/2019	SeqNo:	1988005	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		109	70	130			

Sample ID	LCS-44276	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	44276	RunNo:	59065					
Prep Date:	4/10/2019	Analysis Date:	4/11/2019	SeqNo:	1988539	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.5	70	130			

Sample ID	LCS-44265	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	44265	RunNo:	59065					
Prep Date:	4/10/2019	Analysis Date:	4/11/2019	SeqNo:	1988542	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.2	70	130			

Sample ID	MB-44265	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	44265	RunNo:	59065					
Prep Date:	4/10/2019	Analysis Date:	4/11/2019	SeqNo:	1988543	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		95.5	70	130			

Qualifiers:

- | | | | |
|----|---|-----|---|
| E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit | PQL | Practical Quantitative Limit |
| RL | Reporting Detection Limit | S | % Recovery outside of range due to dilution or matrix |
| W | Sample container temperature is out of limit as specified at testcode | | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904418

16-Apr-19

Client: Harvest
Project: Trunk L

Sample ID	SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batch ID: 44226		RunNo: 59108							
Prep Date: 4/9/2019	Analysis Date: 4/11/2019		SeqNo: 1989810		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.2	70	130			
Toluene	0.97	0.050	1.000	0	96.9	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.9	70	130			
Xylenes, Total	2.9	0.10	3.000	0	98.2	70	130			
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.8	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		89.9	70	130			
Surr: Toluene-d8	0.46		0.5000		92.9	70	130			

Sample ID	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 44226		RunNo: 59108							
Prep Date: 4/9/2019	Analysis Date: 4/11/2019		SeqNo: 1989811		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	0.42		0.5000		83.9	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.9	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		90.5	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

Qualifiers:

- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904418

16-Apr-19

Client: Harvest

Project: Trunk L

Sample ID	ics-44226	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	44226	RunNo:	59108					
Prep Date:	4/9/2019	Analysis Date:	4/11/2019	SeqNo:	1989690	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	70	130			
Surr: BFB	520		500.0		103	70	130			

Sample ID	mb-44226	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	44226	RunNo:	59108					
Prep Date:	4/9/2019	Analysis Date:	4/11/2019	SeqNo:	1989692	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	500		500.0		100	70	130			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	PQL	Practical Quantitative Limit
RL	Reporting Detection Limit	S	% Recovery outside of range due to dilution or matrix
W	Sample container temperature is out of limit as specified at testcode		



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: Harvest

Work Order Number: 1904418

ReptNo: 1

Received By: Isaiah Ortiz 4/6/2019 10:45:00 AM

I-OX

Completed By: Isaiah Ortiz 4/6/2019 11:44:23 AM

I-OX

Reviewed By: YG 4/8/19

(13)

Label: JJC 4-8-19

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° 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. VOA vials have zero headspace? Yes No No VOA Vials
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
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? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH:
 (<2 or >12 unless noted)
 Adjusted?
 Checked by: JJC 4-8-19

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.9	Good	Yes			
2	3.2	Good	Yes			
3	2.8	Good	Yes			



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

March 29, 2019

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX:

RE: Trunk L

OrderNo.: 1903D34

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/28/2019 for the analyses presented in the following report.

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. In order to properly interpret your results, it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: BH07 @ 40'
 Project: Trunk L Collection Date: 3/27/2019 11:30:00 AM
 Lab ID: 1903D34-001 Matrix: SOIL Received Date: 3/28/2019 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	95	60		mg/Kg	20	3/28/2019 11:39:03 AM	43933
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	230	19		mg/Kg	5	3/28/2019 8:58:52 AM	43853
Surr: BFB	106	70-130		%Rec	5	3/28/2019 8:58:52 AM	43853
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	86	9.5		mg/Kg	1	3/28/2019 9:43:19 AM	43929
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/28/2019 9:43:19 AM	43929
Surr: DNOP	94.0	70-130		%Rec	1	3/28/2019 9:43:19 AM	43929
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.095		mg/Kg	5	3/28/2019 8:58:52 AM	43853
Toluene	1.4	0.19		mg/Kg	5	3/28/2019 8:58:52 AM	43853
Ethylbenzene	0.21	0.19		mg/Kg	5	3/28/2019 8:58:52 AM	43853
Xylenes, Total	3.6	0.38		mg/Kg	5	3/28/2019 8:58:52 AM	43853
Surr: 1,2-Dichloroethane-d4	87.7	70-130		%Rec	5	3/28/2019 8:58:52 AM	43853
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	5	3/28/2019 8:58:52 AM	43853
Surr: Dibromofluoromethane	89.9	70-130		%Rec	5	3/28/2019 8:58:52 AM	43853
Surr: Toluene-d8	90.6	70-130		%Rec	5	3/28/2019 8:58:52 AM	43853

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	H Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	PQL Practical Quantitative Limit
RL	Reporting Detection Limit	S % Recovery outside of range due to dilution or matrix
W	Sample container temperature is out of limit as specified at testcode	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D34

29-Mar-19

Client: Harvest
Project: Trunk L

Sample ID: MB-43933	SampType: mbk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 43933	RunNo: 58732								
Prep Date: 3/28/2019	Analysis Date: 3/28/2019	SeqNo: 1973292	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-43933	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 43933	RunNo: 58732								
Prep Date: 3/28/2019	Analysis Date: 3/28/2019	SeqNo: 1973293	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D34

29-Mar-19

Client: Harvest
Project: Trunk L

Sample ID: LCS-43929	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 43929	RunNo: 58701								
Prep Date: 3/28/2019	Analysis Date: 3/28/2019	SeqNo: 1971593	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.4	63.9	124			
Surr: DNOP	4.3		5.000		85.7	70	130			

Sample ID: MB-43929	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 43929	RunNo: 58701								
Prep Date: 3/28/2019	Analysis Date: 3/28/2019	SeqNo: 1971594	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	9.3		10.00		93.3	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D34

29-Mar-19

Client: Harvest
Project: Trunk L

Sample ID: ics-43853	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 43853	RunNo: 58659								
Prep Date: 3/25/2019	Analysis Date: 3/27/2019	SeqNo: 1970988	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	90.0	70	130			
Toluene	0.94	0.050	1.000	0	93.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.1	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.0	70	130			
Surr: Toluene-d8	0.44		0.5000		88.6	70	130			

Sample ID: mb-43853	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 43853	RunNo: 58659								
Prep Date: 3/25/2019	Analysis Date: 3/27/2019	SeqNo: 1970989	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	0.42		0.5000		84.9	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		108	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		88.3	70	130			
Surr: Toluene-d8	0.44		0.5000		87.9	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1903D34

29-Mar-19

Client: Harvest
Project: Trunk L

Sample ID: ics-43853	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 43853	RunNo: 58659								
Prep Date: 3/25/2019	Analysis Date: 3/27/2019	SeqNo: 1970937		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.2	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID: mb-43853	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 43853	RunNo: 58659								
Prep Date: 3/25/2019	Analysis Date: 3/27/2019	SeqNo: 1970938		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	540		500.0		108	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode
- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix



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: Harvest

Work Order Number: 1903D34

RcptNo: 1

Received By: Anne Thorne 3/28/2019 7:00:00 AM

Anne Thorne

Completed By: Anne Thorne 3/28/2019 7:43:17 AM

Anne Thorne

Reviewed By: *JO* 3/28/19

Labeled by: AT 03/28/19

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° 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. VOA vials have zero headspace? Yes No No VOA Vials
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
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? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____ (<2 or >12 unless noted) Adjusted? _____ Checked by: _____
--

Special Handling (if applicable)

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

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: _____	
Client Instructions: _____	

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

April 12, 2019

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL:

FAX

RE: Trunk L

OrderNo.: 1904474

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/9/2019 for the analyses presented in the following report.

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. In order to properly interpret your results, it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1904474

Date Reported: 4/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH-8@30-32'

Project: Trunk L

Collection Date: 4/8/2019 11:00:00 AM

Lab ID: 1904474-001

Matrix: MEOH (SOIL)

Received Date: 4/9/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	4/9/2019 11:57:48 AM	44224
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: CLP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/10/2019 3:40:26 PM	44222
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2019 3:40:26 PM	44222
Surr: DNOP	129	70-130		%Rec	1	4/10/2019 3:40:26 PM	44222
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/9/2019 11:17:42 AM	G59017
Surr: BFB	91.8	73.8-119		%Rec	1	4/9/2019 11:17:42 AM	G59017
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	4/9/2019 11:17:42 AM	B59017
Toluene	ND	0.040		mg/Kg	1	4/9/2019 11:17:42 AM	B59017
Ethylbenzene	ND	0.040		mg/Kg	1	4/9/2019 11:17:42 AM	B59017
Xylenes, Total	ND	0.080		mg/Kg	1	4/9/2019 11:17:42 AM	B59017
Surr: 4-Bromofluorobenzene	92.1	80-120		%Rec	1	4/9/2019 11:17:42 AM	B59017

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Analytical Report

Lab Order 1904474

Date Reported: 4/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Project: Trunk L
Lab ID: 1904474-002

Client Sample ID: BH-8@40-42'
Collection Date: 4/8/2019 11:30:00 AM
Matrix: MEOH (SOIL) Received Date: 4/9/2019 8:10:00 AM

Table with columns: Analyses, Result, RL, Qual, Units, DF, Date Analyzed, Batch. Rows include EPA METHOD 300.0: ANIONS, EPA METHOD 8015M/D: DIESEL RANGE ORGANICS, EPA METHOD 8015D: GASOLINE RANGE, and EPA METHOD 8021B: VOLATILES.

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

Qualifiers table with columns: Qualifier (H, PQL, S, ND, RL, W) and Description (Holding times for preparation or analysis exceeded, Practical Quantitative Limit, % Recovery outside of range due to dilution or matrix, Not Detected at the Reporting Limit, Reporting Detection Limit, Sample container temperature is out of limit as specified at testcode).

Analytical Report

Lab Order 1904474

Date Reported: 4/12/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH-9@27-30'

Project: Trunk L

Collection Date: 4/8/2019 2:30:00 PM

Lab ID: 1904474-003

Matrix: MEOH (SOIL)

Received Date: 4/9/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	59		mg/Kg	20	4/9/2019 12:22:36 PM	44224
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/10/2019 4:14:28 PM	44222
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/10/2019 4:14:28 PM	44222
Surr: DNOP	117	70-130		%Rec	1	4/10/2019 4:14:28 PM	44222
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/9/2019 1:38:08 PM	G59017
Surr: BFB	86.8	73.8-119		%Rec	1	4/9/2019 1:38:08 PM	G59017
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	4/9/2019 1:38:08 PM	B59017
Toluene	ND	0.039		mg/Kg	1	4/9/2019 1:38:08 PM	B59017
Ethylbenzene	ND	0.039		mg/Kg	1	4/9/2019 1:38:08 PM	B59017
Xylenes, Total	ND	0.078		mg/Kg	1	4/9/2019 1:38:08 PM	B59017
Surr: 4-Bromofluorobenzene	87.2	80-120		%Rec	1	4/9/2019 1:38:08 PM	B59017

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Project: Trunk L
Lab ID: 1904474-004

Client Sample ID: BH-9@40-42'
Collection Date: 4/8/2019 2:35:00 PM
Matrix: MEOH (SOIL) **Received Date:** 4/9/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	4/9/2019 12:35:01 PM	44224
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/10/2019 4:38:59 PM	44222
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2019 4:38:59 PM	44222
Surr: DNOP	100	70-130		%Rec	1	4/10/2019 4:38:59 PM	44222
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	4/9/2019 2:01:32 PM	G59017
Surr: BFB	88.8	73.8-119		%Rec	1	4/9/2019 2:01:32 PM	G59017
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/9/2019 2:01:32 PM	B59017
Toluene	ND	0.045		mg/Kg	1	4/9/2019 2:01:32 PM	B59017
Ethylbenzene	ND	0.045		mg/Kg	1	4/9/2019 2:01:32 PM	B59017
Xylenes, Total	ND	0.091		mg/Kg	1	4/9/2019 2:01:32 PM	B59017
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	4/9/2019 2:01:32 PM	B59017

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904474

12-Apr-19

Client: Harvest

Project: Trunk L

Sample ID: MB-44224	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44224	RunNo: 59030								
Prep Date: 4/9/2019	Analysis Date: 4/9/2019	SeqNo: 1986298	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44224	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44224	RunNo: 59030								
Prep Date: 4/9/2019	Analysis Date: 4/9/2019	SeqNo: 1986300	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.2	90	110			

Qualifiers:

H Holding times for preparation or analysis exceeded
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904474

12-Apr-19

Client: Harvest
Project: Trunk L

Sample ID: MB-44222	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44222	RunNo: 59043								
Prep Date: 4/9/2019	Analysis Date: 4/10/2019	SeqNo: 1987392	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	9.5		10.00		94.9	70	130			

Sample ID: LCS-44222	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44222	RunNo: 59043								
Prep Date: 4/9/2019	Analysis Date: 4/10/2019	SeqNo: 1987409	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.9		5.000		98.3	70	130			

Sample ID: MB-44276	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44276	RunNo: 59065								
Prep Date: 4/10/2019	Analysis Date: 4/11/2019	SeqNo: 1988005	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		109	70	130			

Sample ID: LCS-44276	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44276	RunNo: 59065								
Prep Date: 4/10/2019	Analysis Date: 4/11/2019	SeqNo: 1988539	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.5	70	130			

Sample ID: LCS-44265	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44265	RunNo: 59065								
Prep Date: 4/10/2019	Analysis Date: 4/11/2019	SeqNo: 1988542	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.2	70	130			

Sample ID: MB-44265	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44265	RunNo: 59065								
Prep Date: 4/10/2019	Analysis Date: 4/11/2019	SeqNo: 1988543	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		95.5	70	130			

Qualifiers:

- | | | | |
|-----|---|----|---|
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified at testcode |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904474

12-Apr-19

Client: Harvest
Project: Trunk L

Sample ID: 1904474-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-8@30-32'	Batch ID: 44222	RunNo: 59043								
Prep Date: 4/9/2019	Analysis Date: 4/11/2019	SeqNo: 1989010		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.7	48.64	0	104	53.5	126			
Surr: DNOP	5.2		4.864		107	70	130			

Sample ID: 1904474-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-8@30-32'	Batch ID: 44222	RunNo: 59043								
Prep Date: 4/9/2019	Analysis Date: 4/11/2019	SeqNo: 1989011		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	9.7	48.26	0	124	53.5	126	16.4	21.7	
Surr: DNOP	6.2		4.826		128	70	130	0	0	

Sample ID: MB-44266	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44266	RunNo: 59043								
Prep Date: 4/10/2019	Analysis Date: 4/11/2019	SeqNo: 1989013		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	70	130			

Sample ID: LCS-44266	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44266	RunNo: 59043								
Prep Date: 4/10/2019	Analysis Date: 4/11/2019	SeqNo: 1989014		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.0	70	130			

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904474

12-Apr-19

Client: Harvest
Project: Trunk L

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G59017	RunNo: 59017								
Prep Date:	Analysis Date: 4/9/2019	SeqNo: 1985583	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	890		1000		88.7	73.8	119			

Sample ID: 2.5UG GRO LCS	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G59017	RunNo: 59017								
Prep Date:	Analysis Date: 4/9/2019	SeqNo: 1985584	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	80.1	123			
Surr: BFB	990		1000		99.3	73.8	119			

Sample ID: 1904474-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-8@30-32'	Batch ID: G59017	RunNo: 59017								
Prep Date:	Analysis Date: 4/9/2019	SeqNo: 1985586	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.0	19.90	0	103	69.1	142			
Surr: BFB	820		796.2		103	73.8	119			

Sample ID: 1904474-001AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-8@30-32'	Batch ID: G59017	RunNo: 59017								
Prep Date:	Analysis Date: 4/9/2019	SeqNo: 1985587	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.0	19.90	0	100	69.1	142	2.79	20	
Surr: BFB	800		796.2		101	73.8	119	0	0	

Sample ID: MB-44121	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 44121	RunNo: 59017								
Prep Date: 4/4/2019	Analysis Date: 4/9/2019	SeqNo: 1985591	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		89.6	73.8	119			

Sample ID: LCS-44121	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 44121	RunNo: 59017								
Prep Date: 4/4/2019	Analysis Date: 4/9/2019	SeqNo: 1985592	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	73.8	119			

Qualifiers:

- | | | | |
|-----|---|----|---|
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified at testcode |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904474

12-Apr-19

Client: Harvest
Project: Trunk L

Sample ID: RB	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B59017	RunNo: 59017								
Prep Date:	Analysis Date: 4/9/2019	SeqNo: 1985631	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	0.88		1.000		87.6	80	120			

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B59017	RunNo: 59017								
Prep Date:	Analysis Date: 4/9/2019	SeqNo: 1985632	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	90.4	80	120			
Toluene	0.95	0.050	1.000	0	94.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.5	80	120			

Sample ID: 1904474-002AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-8@40-42'	Batch ID: B59017	RunNo: 59017								
Prep Date:	Analysis Date: 4/9/2019	SeqNo: 1985636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.019	0.7513	0.008039	88.8	63.9	127			
Toluene	0.72	0.038	0.7513	0.01976	92.8	69.9	131			
Ethylbenzene	0.69	0.038	0.7513	0	92.4	71	132			
Xylenes, Total	2.1	0.075	2.254	0.02825	93.7	71.8	131			
Surr: 4-Bromofluorobenzene	0.71		0.7513		94.0	80	120			

Sample ID: 1904474-002AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-8@40-42'	Batch ID: B59017	RunNo: 59017								
Prep Date:	Analysis Date: 4/9/2019	SeqNo: 1985637	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.019	0.7513	0.008039	88.8	63.9	127	0.0105	20	
Toluene	0.71	0.038	0.7513	0.01976	91.8	69.9	131	0.990	20	
Ethylbenzene	0.69	0.038	0.7513	0	92.5	71	132	0.0439	20	
Xylenes, Total	2.1	0.075	2.254	0.02825	92.8	71.8	131	1.02	20	
Surr: 4-Bromofluorobenzene	0.66		0.7513		88.2	80	120	0	0	

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904474

12-Apr-19

Client: Harvest
Project: Trunk L

Sample ID: MB-44121	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 44121	RunNo: 59017								
Prep Date: 4/4/2019	Analysis Date: 4/9/2019	SeqNo: 1985640			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	80	120			

Sample ID: LCS-44121	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 44121	RunNo: 59017								
Prep Date: 4/4/2019	Analysis Date: 4/9/2019	SeqNo: 1985641			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	80	120			

Qualifiers:

H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode



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: **Harvest**

Work Order Number: **1904474**

RcptNo: **1**

Received By: **Yazmine Garduno** 4/9/2019 8:10:00 AM *Yazmine Garduno*
 Completed By: **Yazmine Garduno** 4/9/2019 8:22:39 AM *Yazmine Garduno*
 Reviewed By: **DAD 4/9/19**
LB: YG 4/9/19

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° 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. VOA vials have zero headspace? Yes No No VOA Vials
 10. Were any sample containers received broken? Yes No
 11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
 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? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: **YG 4/9/19**

Special Handling (if applicable)

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

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.4	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:

Standard Rush Next Day



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: Harvest Four Corners

Kijun Hong

Mailing Address: 1785 Arroyo Dr
Bloomfield, NM 87413

Phone #: 505-632-4475

email or Fax#: Khong@harvestmidstream.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) PDF

Project Name:
Trunk L

Project #:

Project Manager:
Brooke Herb

Sampler: Josh Adams

On Ice: Yes No

Sample Temperature: 4.40

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TPH (Gas only)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (FCI NO. 3, NO. 5, NO. 4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
4-8-19	1100	soil	BH-8 @ 30-32'	1) 4oz	cool	-001	X		X					X				
	1130		BH-8 @ 40-42'			-002	X		X					X				
	1430		BH-9 @ 27-30'			-003	X		X					X				
	1435		BH-9 @ 40-42'			-004	X		X					X				

Date: 4-8-19 Time: 1703 Relinquished by: [Signature]

Received by: [Signature] Date: 4/8/19 Time: 1702

Remarks:
cc: bherb@terru.com
jadams@terru.com
ecarroll@terru.com

Date: 4/8/19 Time: 1819 Relinquished by: [Signature]

Received by: [Signature] Date: 4/9/19 Time: 8:10

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

April 11, 2019

Brooke Herb

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: (505) 632-4475

FAX

RE: Trunk L

OrderNo.: 1904537

Dear Brooke Herb:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/10/2019 for the analyses presented in the following report.

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. In order to properly interpret your results, it is imperative that you review this report in its entirety. 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. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1904537

Date Reported: 4/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH-10 @ 35-37'

Project: Trunk L

Collection Date: 4/9/2019 10:30:00 AM

Lab ID: 1904537-001

Matrix: SOIL

Received Date: 4/10/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	4/10/2019 10:54:55 AM	44254
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	4/10/2019 11:46:14 AM	GS59036
Surr: BFB	99.9	70-130		%Rec	1	4/10/2019 11:46:14 AM	GS59036
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/10/2019 3:49:09 PM	44249
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/10/2019 3:49:09 PM	44249
Surr: DNOP	95.1	70-130		%Rec	1	4/10/2019 3:49:09 PM	44249
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	4/10/2019 11:46:14 AM	R59036
Toluene	0.13	0.044		mg/Kg	1	4/10/2019 11:46:14 AM	R59036
Ethylbenzene	ND	0.044		mg/Kg	1	4/10/2019 11:46:14 AM	R59036
Xylenes, Total	0.13	0.088		mg/Kg	1	4/10/2019 11:46:14 AM	R59036
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%Rec	1	4/10/2019 11:46:14 AM	R59036
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	4/10/2019 11:46:14 AM	R59036
Surr: Dibromofluoromethane	89.2	70-130		%Rec	1	4/10/2019 11:46:14 AM	R59036
Surr: Toluene-d8	95.0	70-130		%Rec	1	4/10/2019 11:46:14 AM	R59036

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Analytical Report

Lab Order 1904537

Date Reported: 4/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH-10 @ 40-42'

Project: Trunk L

Collection Date: 4/9/2019 10:35:00 AM

Lab ID: 1904537-002

Matrix: SOIL

Received Date: 4/10/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	4/10/2019 11:07:19 AM	44254
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	210	38		mg/Kg	10	4/10/2019 2:37:55 PM	GS59036
Surr: BFB	102	70-130		%Rec	10	4/10/2019 2:37:55 PM	GS59036
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	32	9.7		mg/Kg	1	4/10/2019 4:11:20 PM	44249
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/10/2019 4:11:20 PM	44249
Surr: DNOP	103	70-130		%Rec	1	4/10/2019 4:11:20 PM	44249
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	0.26	0.19		mg/Kg	10	4/10/2019 2:37:55 PM	R59036
Toluene	2.9	0.38		mg/Kg	10	4/10/2019 2:37:55 PM	R59036
Ethylbenzene	ND	0.38		mg/Kg	10	4/10/2019 2:37:55 PM	R59036
Xylenes, Total	4.8	0.77		mg/Kg	10	4/10/2019 2:37:55 PM	R59036
Surr: 1,2-Dichloroethane-d4	87.7	70-130		%Rec	10	4/10/2019 2:37:55 PM	R59036
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	10	4/10/2019 2:37:55 PM	R59036
Surr: Dibromofluoromethane	90.9	70-130		%Rec	10	4/10/2019 2:37:55 PM	R59036
Surr: Toluene-d8	96.6	70-130		%Rec	10	4/10/2019 2:37:55 PM	R59036

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Analytical Report

Lab Order 1904537

Date Reported: 4/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH-11 @ 30-32'

Project: Trunk L

Collection Date: 4/9/2019 1:40:00 PM

Lab ID: 1904537-003

Matrix: SOIL

Received Date: 4/10/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	4/10/2019 11:19:44 AM	44254
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/10/2019 3:06:24 PM	GS59036
Surr: BFB	104	70-130		%Rec	1	4/10/2019 3:06:24 PM	GS59036
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	4/10/2019 3:25:44 PM	44249
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/10/2019 3:25:44 PM	44249
Surr: DNOP	112	70-130		%Rec	1	4/10/2019 3:25:44 PM	44249
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	4/10/2019 3:06:24 PM	R59036
Toluene	ND	0.040		mg/Kg	1	4/10/2019 3:06:24 PM	R59036
Ethylbenzene	ND	0.040		mg/Kg	1	4/10/2019 3:06:24 PM	R59036
Xylenes, Total	ND	0.081		mg/Kg	1	4/10/2019 3:06:24 PM	R59036
Surr: 1,2-Dichloroethane-d4	87.5	70-130		%Rec	1	4/10/2019 3:06:24 PM	R59036
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/10/2019 3:06:24 PM	R59036
Surr: Dibromofluoromethane	87.9	70-130		%Rec	1	4/10/2019 3:06:24 PM	R59036
Surr: Toluene-d8	93.8	70-130		%Rec	1	4/10/2019 3:06:24 PM	R59036

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

Analytical Report

Lab Order 1904537

Date Reported: 4/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest

Client Sample ID: BH-11 @ 40-42'

Project: Trunk L

Collection Date: 4/9/2019 1:45:00 PM

Lab ID: 1904537-004

Matrix: SOIL

Received Date: 4/10/2019 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	ND	60		mg/Kg	20	4/10/2019 11:32:08 AM	44254
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/10/2019 3:34:53 PM	GS59036
Surr: BFB	106	70-130		%Rec	1	4/10/2019 3:34:53 PM	GS59036
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/10/2019 3:50:03 PM	44249
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/10/2019 3:50:03 PM	44249
Surr: DNOP	114	70-130		%Rec	1	4/10/2019 3:50:03 PM	44249
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	4/10/2019 3:34:53 PM	R59036
Toluene	ND	0.040		mg/Kg	1	4/10/2019 3:34:53 PM	R59036
Ethylbenzene	ND	0.040		mg/Kg	1	4/10/2019 3:34:53 PM	R59036
Xylenes, Total	ND	0.079		mg/Kg	1	4/10/2019 3:34:53 PM	R59036
Surr: 1,2-Dichloroethane-d4	87.4	70-130		%Rec	1	4/10/2019 3:34:53 PM	R59036
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/10/2019 3:34:53 PM	R59036
Surr: Dibromofluoromethane	92.1	70-130		%Rec	1	4/10/2019 3:34:53 PM	R59036
Surr: Toluene-d8	94.5	70-130		%Rec	1	4/10/2019 3:34:53 PM	R59036

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

Qualifiers:	H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904537

11-Apr-19

Client: Harvest

Project: Trunk L

Sample ID: MB-44254	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 44254	RunNo: 59038								
Prep Date: 4/10/2019	Analysis Date: 4/10/2019	SeqNo: 1988133 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-44254	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 44254	RunNo: 59038								
Prep Date: 4/10/2019	Analysis Date: 4/10/2019	SeqNo: 1988134 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Qualifiers:

H Holding times for preparation or analysis exceeded
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904537

11-Apr-19

Client: Harvest

Project: Trunk L

Sample ID: LCS-44249	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 44249	RunNo: 59045								
Prep Date: 4/10/2019	Analysis Date: 4/10/2019	SeqNo: 1987412	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	63.9	124			
Surr: DNOP	4.6		5.000		92.2	70	130			

Sample ID: MB-44249	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 44249	RunNo: 59045								
Prep Date: 4/10/2019	Analysis Date: 4/10/2019	SeqNo: 1987413	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	11		10.00		106	70	130			

Qualifiers:

- | | | | |
|-----|---|----|---|
| H | Holding times for preparation or analysis exceeded | ND | Not Detected at the Reporting Limit |
| PQL | Practical Quantitative Limit | RL | Reporting Detection Limit |
| S | % Recovery outside of range due to dilution or matrix | W | Sample container temperature is out of limit as specified at testcode |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904537

11-Apr-19

Client: Harvest
Project: Trunk L

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R59036	RunNo: 59036								
Prep Date:	Analysis Date: 4/10/2019	SeqNo: 1987135			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	1.000	0	79.3	70	130			
Toluene	1.0	0.050	1.000	0	100	70	130			
Ethylbenzene	0.99	0.050	1.000	0	98.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	99.3	70	130			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		85.9	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.0	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.5	70	130			
Surr: Toluene-d8	0.49		0.5000		97.6	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R59036	RunNo: 59036								
Prep Date:	Analysis Date: 4/10/2019	SeqNo: 1987137			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	0.43		0.5000		85.3	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.44		0.5000		87.7	70	130			
Surr: Toluene-d8	0.49		0.5000		97.8	70	130			

Sample ID: 1904537-001ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BH-10 @ 35-37'	Batch ID: R59036	RunNo: 59036								
Prep Date:	Analysis Date: 4/10/2019	SeqNo: 1988420			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.022	0.8787	0.01556	83.4	68.9	131			
Toluene	0.99	0.044	0.8787	0.1281	98.1	64.3	137			
Ethylbenzene	0.87	0.044	0.8787	0	99.5	70	130			
Xylenes, Total	2.8	0.088	2.636	0.1253	99.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.38		0.4394		86.9	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.4394		102	70	130			
Surr: Dibromofluoromethane	0.40		0.4394		91.2	70	130			
Surr: Toluene-d8	0.42		0.4394		94.5	70	130			

Qualifiers:

- H Holding times for preparation or analysis exceeded
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904537

11-Apr-19

Client: Harvest

Project: Trunk L

Sample ID: 1904537-001amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BH-10 @ 35-37'	Batch ID: R59036	RunNo: 59036								
Prep Date:	Analysis Date: 4/10/2019	SeqNo: 1988421 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.022	0.8787	0.01556	77.8	68.9	131	6.88	20	
Toluene	0.95	0.044	0.8787	0.1281	93.7	64.3	137	3.92	20	
Ethylbenzene	0.84	0.044	0.8787	0	95.8	70	130	3.76	0	
Xylenes, Total	2.7	0.088	2.636	0.1253	95.8	70	130	3.66	0	
Surr: 1,2-Dichloroethane-d4	0.38		0.4394		86.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.44		0.4394		99.8	70	130	0	0	
Surr: Dibromofluoromethane	0.39		0.4394		89.4	70	130	0	0	
Surr: Toluene-d8	0.42		0.4394		94.8	70	130	0	0	

Qualifiers:

H Holding times for preparation or analysis exceeded
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1904537

11-Apr-19

Client: Harvest

Project: Trunk L

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: GS59036	RunNo: 59036								
Prep Date:	Analysis Date: 4/10/2019	SeqNo: 1987141							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	93.4	70	130			
Surr: BFB	500		500.0		101	70	130			

Sample ID: rb	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: GS59036	RunNo: 59036								
Prep Date:	Analysis Date: 4/10/2019	SeqNo: 1987143							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	520		500.0		104	70	130			

Qualifiers:

H Holding times for preparation or analysis exceeded
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified at testcode



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: Harvest

Work Order Number: 1904537

RcptNo: 1

Received By: Anne Thorne 4/10/2019 8:10:00 AM

Anne Thorne

Completed By: Anne Thorne 4/10/2019 8:16:10 AM

Anne Thorne

Reviewed By: YG 4/10/19

Labeled by: AT 04/10/19

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° 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. VOA vials have zero headspace? Yes No No VOA Vials
10. Were any sample containers received broken? Yes No
11. Does paperwork match bottle labels? Yes No
 (Note discrepancies on chain of custody)
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? Yes No
 (If no, notify customer for authorization.)

of preserved bottles checked for pH: 04/10/19
 (<2 or >12 unless noted)
 Adjusted?
 Checked by: _____

Special Handling (if applicable)

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

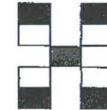
Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			
2	1.0	Good	Yes			
3	1.0	Good	Yes			

Chain-of-Custody Record



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Client: Harvest Four Corners
 Mailing Address: 1755 Arroyo Dr
Bloomfield, NM 87413
 Phone #:
 email or Fax#: khong@harvestmidstream.com
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) PDF

Turn-Around Time:
 Standard Rush same day
 Project Name: Trunk L
 Project #:

Project Manager: Brooke Herb
 Sampler: Josh Adams
 On Ice: Yes No
 # of Coolers: 3
 Cooler Temp (including CP): 1.0° 1.0° 1.0°

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No	BTEX / MEALS (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4-9-19	1030	Soil	BH-10 @ 35-37'	(1) 4oz	cool	1904537	X	X				X			
	1035		BH-10 @ 40-42'				X	X				X			
	1340		BH-11 @ 30-32'				X	X				X			
	1345		BH-11 @ 40-42'				X	X				X			

Remarks: cc: bherb@henv.com
jadams@henv.com
ecarroll@henv.com

Date: 4-9-19 Time: 1505 Relinquished by: Josh Adams
 Date: 4/9/19 Time: 1840 Relinquished by: Christina Wooten

Received by: Christina Wooten Via: 4/9/19 1505
 Received by: Chris R Via: 04/10/19 0810

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.