

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	NAB1927551697
District RP	2RP-5637
Facility ID	fAB1922058078
Application ID	pAB1927551443

Release Notification RT37G-190906-C-1410

Responsible Party

Responsible Party	Lucid Energy Delaware, LLC.	OGRID	372422
Contact Name	Michael Gant	Contact Telephone	575 748 4555
Contact email	Mgant@lucid-energy.com	Incident # (assigned by OCD)	NAB1927551697
Contact mailing address	201 S. 4th St., Artesia, NM 88210		

Location of Release Source

Latitude 32.248184° Longitude -103.972488°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Juniper Pipeline release	Site Type	Natural gas gathering
Date Release Discovered	9/5/2019	API# (if applicable)	

Unit Letter	Section	Township	Range	County
F	3	24S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: Bureau of Land Management)

Nature and Volume of Release

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 type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 750 Mcf	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release


The release was caused by a rupture at a weld along the poly line.

Incident ID	NAB1927551697
District RP	2RP-5637
Facility ID	fAB1922058078
Application ID	pAB1927551443

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The total volume exceeded 500 Mcf.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice was not provided immediately due to unknown volume and this C141 was submitted as soon as total volume was determined.	

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>Michael Gant</u>	Title: <u>Environmental Field Coordinator</u>
Signature: <u></u>	Date: <u>9/6/2019</u>
email: <u>mgant@lucid-energy.com</u>	Telephone: <u>575 748 4555</u>
<u>OCD Only</u>	
Received by: <u>Amalia Bustamante</u>	Date: <u>10/02/2019</u>

Incident ID	NAB1927551697
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	NAB1927551697
District RP	
Facility ID	
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: Michael Gant Title: Environmental Compliance Manager
Signature: M. Gant Date: 2/18/2022
email: Mgant@lucid-energy.com Telephone: 314-330-7876

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1927551697
District RP	
Facility ID	
Application ID	

Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Michael Gant Title: Environmental Compliance Manager

Signature: Mgant Date: 2/18/2022

email: Mgant@lucid-energy.com Telephone: 314-330-7876

OCD Only

Received by: Chad Hensley Date: 03/21/2022

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

Closure Approved by: Chad Hensley Date: 03/21/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



WSP USA
3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

January 25, 2022

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

**RE: Closure Request
Juniper 8 Lateral #3
Incident Numbers nAB1927551697 and nAPP2121158260
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of Lucid Energy Group. (Lucid), is pleased to present the following Closure Request detailing remedial activities at the Juniper 8 Lateral #3 (Site) located in Unit F, Section 3, Township 24 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of natural gas and/or pipeline liquids at the Site. Based on the excavation activities and results of the delineation and confirmation soil sampling event, Lucid is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Numbers nAB1927551697 and nAPP2121158260.

RELEASE BACKGROUND

nAB1927551697

On September 5, 2019, a rupture at a weld on a poly line resulted in the release of 750 thousand cubic feet (MCF) of natural gas at the Site. Lucid reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on September 6, 2019 and was assigned Incident Number nAB1927551697. Excavation activities were completed by Lucid. A total of 100 cubic yards of soil was removed and staged onsite on top an impermeable liner. After completion of excavation activities, the excavation areas were secured with fencing.

On September 14, 2021, Mr. Chad Hensley with the NMOCD denied the original Closure Request based on the following reasons:

- A "Right of Way" is considered Off-Pad and is to be treated like it is in the pasture. Roads, Pasture, and "Right of Ways" are all considered Off-Pad and need to meet the strictest closure criteria for soil standards in the top 4' of soil/material (Equivalent: <50' depth to groundwater).



- *Sample points Mist 1, #2 south wall, #3 base do not meet closure criteria.*

On September 14, 2021, Lucid communicated with NMOCD that the above requirements would be addressed during upcoming remediation activities associated with Incident Number nAPP2121158260 (described below) as it overlapped the subject release.

nAPP2121158260

On July 27, 2021, high line pressure caused a rupture at a weld along a poly line and resulted in the release of greater than 500 MCF of natural gas and 5 gallons (gal) of pipeline liquid at the Site. Pipeline liquids were not able to be recovered immediately. Lucid reported the release to NMOCD on a Form C-141 on July 26, 2021 and was assigned Incident Number nAPP2121158260.

SITE CHARACTERIZATION

WSP 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) through a desktop search of potential sensitive receptors as well as referencing an NMOCD approved site characterization of the Site associated with Incident Number nAB1922059305 which included a groundwater depth determination of greater than 100 feet below ground surface (bgs) based on regional water well data. The Closure Request Report and characterization associated with Incident Number nAB1922059305 was subsequently approved by NMOCD on June 24, 2021.

The closest continuously flowing or significant watercourse to the Site is the Pecos River, located approximately 2.15 miles southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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



- TPH: 2,500 mg/kg; and
- Chloride: 20,000 mg/kg.

A reclamation closure criteria of 100 mg/kg TPH and 600 mg/kg chloride was applied to the top 4 feet of the pasture area impacted by the release, per NMAC 19.15.29.13.D (1) for areas that will be reclaimed immediately following remediation.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

During August 2021, Lucid conducted additional excavation activities to address impacts associated with Incident Number nAPP2121158260 and residual impacts associated with Incident Number nAB1927551697. A total of approximately 150 cubic yards of impacted soil was removed following excavation activities. The impacted soil was staged onsite on top of an impermeable liner. After completion of excavation activities, the excavation area was secured with fencing.

On October 18, 2021, WSP visited to the Site to conduct confirmation sampling activities and verify the absence or presence of any residual impacted and/or waste-containing soil within the excavation area as indicated by field screening. Excavation confirmation soil samples were field screened for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

WSP collected 5-point composite soil samples to represent at most 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Soil samples SW01 through SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 5 feet bgs. Soil samples FS01 through FS08 were collected from the floor of the excavation at 5 feet bgs. The excavation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler initials, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Based on laboratory analytical results for sidewall confirmation soil samples SW04 and SW05 exceeding the Closure Criteria for chloride, additional excavation appeared warranted to address residual chloride impacts.

On December 28, 2021 WSP returned to the Site to continue excavation activities in the vicinity of sample locations SW04 and SW05. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride. Following removal of impacted soil, WSP collected



5-point composite soil samples at least every 200 square feet from the sidewalls of the excavation. Composite soil samples SW07 and SW08 were collected from the extended sidewalls of the excavation from the ground surface to 7 feet bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The final excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation is included in Attachment 1.

A total of approximately 150 cubic yards of impacted soil was removed during final excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Landfill Facility under Lucid approved manifests.

DELINEATION AND SOIL SAMPLING ACTIVITIES

nAB1927551697

To address the deficiencies addressed by NMOCD in the September 14, 2021 denial email, WSP personnel conducted delineation activities between December 29 and 30, 2021 to assess the presence or absence of impacts to soil associated with the subject release. Utilizing a hand auger, four delineation soil samples (SS01 through SS04) were advanced in close proximity to the original sample locations¹ to confirm the presence or absence of residual soil impacts from the hydrocarbon mist. Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons and chloride. A total of two soil samples were collected from each of the borehole locations: the sample with the highest observed field screening concentrations (approximately 0.5-foot bgs) and the greatest depth (1 foot bgs). The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The delineation sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 3. Field screening results and observations for the delineation soil samples were recorded on lithologic/soil sampling logs and are presented in Attachment 2.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation and final excavation confirmation soil samples indicated concentrations of benzene, BTEX, TPH and chloride were compliant with the Closure Criteria and reclamation standard. Laboratory analytical results are summarized in Table 1 and the laboratory analytical report is included as Attachment 3.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site by Lucid to address the September 5, 2019 and July 27, 2021 release of natural gas and/or pipeline fluid. At the

¹ Samples location correlate with Mist #1 through Mist #4 soil sample location areas presented on Figure 5 in Incident Number nAB1927551697 Closure Request Report.

District II
Page 5

completion of remediation activities for the two releases, a total of approximately 400 cubic yards of impacted soil were removed during final excavation activities. Laboratory analytical results for final excavation confirmation and delineation soil samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the reclamation and Closure Criteria. Laboratory analytical results for remediation associated with nAPP2121158260 indicated remediation was achieved for nAB1927551697 as it occurred in the same excavation area.

Based on analytical results from the December 2021 confirmation sampling event, portions of the excavation that did not meet the Closure Criteria, specifically #2 south wall and #3 base, have been adequately remediated based on confirmation soil samples SW08 and FS05 and FS06, respectively. Analytical results for soil samples SS01 through SS04 indicate there is an absence of soil impacts in the vicinity of the historically analyzed Mist #1 through Mist #4, therefore no additional remedial activities appear warranted in those locations. During remedial activities that were taken to address soil impacts associated with Incident Number nAPP2121158260, deficiencies identified for Incident Number nAB1927551697 appear to have been rectified.

Based on the soil sample analytical results, Lucid has sufficiently remediated impacted soils and as such, no further remediation appears warranted. Following review and approval of the Closure Request, Lucid will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The subject area will also be reseeded with a Bureau of Land Management (BLM)-approved seed mix. WSP and Lucid believe these remedial actions are protective of human health, the environment, and groundwater. As such, Lucid respectfully requests NFA for Incident Numbers nAPP2121158260 and nAB1927551697.

If you have any questions or comments, please do not hesitate to contact Mr. Daniel Moir at (303) 887-2946.

Sincerely,

WSP USA Inc.

A handwritten signature in black ink, appearing to read 'Joseph S. Hernandez'.

Joseph S. Hernandez
Consultant, Geologist

A handwritten signature in black ink, appearing to read 'Daniel R. Moir'.

Daniel R. Moir, P.G.
Sr. Lead Consultant, Geologist



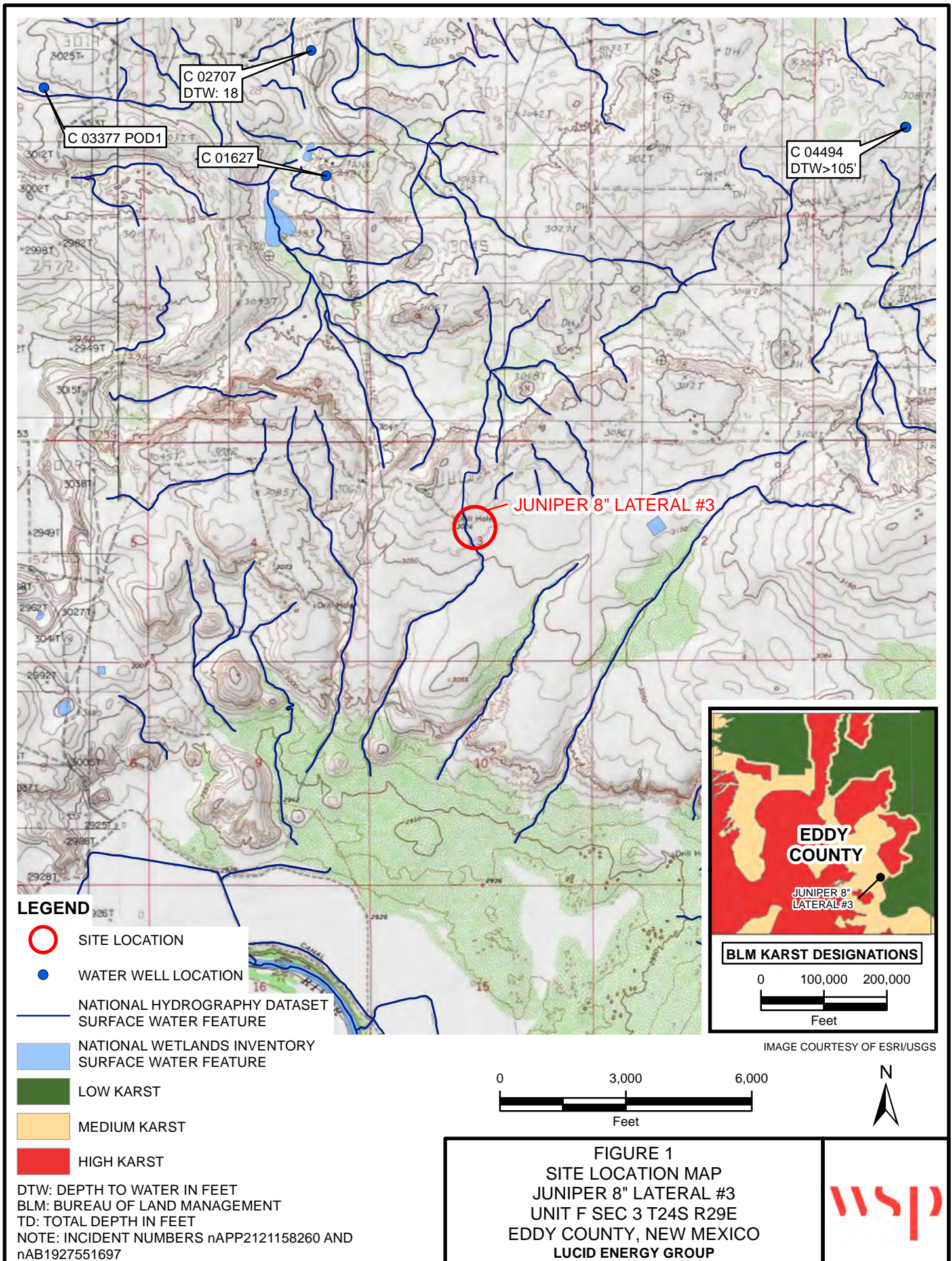
District II
Page 6

cc: Michael Gant, Lucid
Bureau of Land Management
NMOCD

Attachments:

Figure 1 Site Location Map
Figure 2 Excavation Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Photographic Log
Attachment 2 Lithologic/Soil Sampling Logs
Attachment 3 Laboratory Analytical Reports

FIGURES





LEGEND

- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED
- GAS/PIPELINE
- WATER LINE
- ELECTRIC LINE
- EXCAVATION EXTENT
- INFRASTRUCTURE

NOTE: INCIDENT NUMBER nAPP2121158260 AND nAB1927551697
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

IMAGE COURTESY OF ESRI

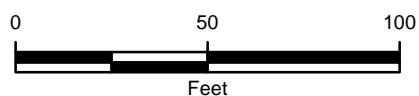


FIGURE 2
EXCAVATION SOIL SAMPLE LOCATIONS
JUNIPER 8" LATERAL #3
UNIT F SEC 3 T24S R29E
EDDY COUNTY, NEW MEXICO
LUCID ENERGY GROUP





IMAGE COURTESY OF ESRI

LEGEND

- DELINEATION SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS/PIPELINE
- WATER LINE
- ELECTRIC LINE
- INFRASTRUCTURE
- EXCAVATION EXTENT

NOTE: INCIDENT NUMBER nAB1927551697
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

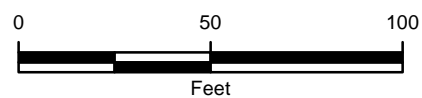


FIGURE 3
DELINEATION SOIL SAMPLE LOCATIONS
 JUNIPER 8" LATERAL #3
 UNIT F SEC 3 T24S R29E
 EDDY COUNTY, NEW MEXICO
LUCID ENERGY GROUP



C:\Users\USJG689584\OneDrive - WSP 0365\Documents\31403665.000_JUNIPER 8 LATERAL 3\MXD\31403665.000_FIG03_DELINEATION_2021_2.mxd

TABLES

Table 1

Soil Analytical Results
 Juniper 8" Lateral #3
 Incident Number nAPP2121158260 and nAB1927551697
 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples - nAPP2121158260										
FS01	10/18/2021	5	<0.025	<0.10	<9.8	<5.0	<49	<9.8	<49	300
FS02	10/18/2021	5	<0.025	<0.10	<9.1	<4.9	<46	<9.1	<46	110
FS03	10/18/2021	5	<0.024	<0.10	<9.8	<4.8	<49	<9.8	<49	290
FS04	10/18/2021	5	<0.024	<0.09	9.4	<4.7	<46	9.4	9.4	300
FS05	10/18/2021	5	<0.024	<0.09	<9.6	<4.7	<48	<9.6	<48	310
FS06	10/18/2021	5	<0.023	<0.09	<9.5	<4.7	<48	<9.5	<48	410
FS07	10/18/2021	5	<0.024	<0.09	<9.1	<4.7	<46	<9.1	<46	290
FS08	10/18/2021	5	<0.024	<0.09	13	<4.7	<49	13	13	360
Excavation Sidewall Soil Samples - nAPP2121158260										
SW01	10/18/2021	0 - 5	<0.023	<0.09	<9.0	<4.6	<45	<9.0	<45	250
SW02	10/18/2021	0 - 5	<0.023	<0.09	<9.2	<4.7	<46	<9.2	<46	600
SW03	10/18/2021	0 - 5	<0.024	<0.10	<9.3	<4.8	<46	<9.3	<46	220

Table 1

Soil Analytical Results
 Juniper 8" Lateral #3
 Incident Number nAPP2121158260 and nAB1927551697
 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW04	10/18/2021	0 - 5	<0.023	<0.09	<8.8	<4.7	<44	<8.8	<44	1,100
SW07	12/28/2021	0 - 7	<0.019	<0.08	<3.8	<9.3	<47	<9.3	<47	360
SW05	10/18/2021	0 - 5	<0.023	<0.09	<9.6	<4.6	<48	<9.6	<48	920
SW09	12/28/2021	0 - 7	<0.020	<0.08	<4.0	<9.5	<47	<9.5	<47	200
SW06	10/18/2021	0 - 5	<0.023	<0.09	<9.4	<4.6	<47	<9.4	<47	110
Horizontal Delineation Soil Samples - nAB1927551697										
SS01	12/29/2021	0.5	<0.018	<0.07	<3.6	<9.9	<50	<9.9	<50	350
SS01A	12/29/2021	1	<0.021	<0.08	<4.2	<10	<50	<10	<50	250
SS02	12/30/2021	0.5	<0.020	<0.08	<4.0	<9.2	<46	<9.2	<46	110
SS02A	12/30/2021	1	<0.017	<0.07	<3.3	10	<45	10	10	<60

Table 1

Soil Analytical Results
 Juniper 8" Lateral #3
 Incident Number nAPP2121158260 and nAB1927551697
 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SS03	12/29/2021	0.5	<0.022	<0.09	<4.3	<10	<50	<10	<50	<60
SS03A	12/29/2021	1	<0.016	<0.06	<3.2	<9.8	<49	<9.8	<49	<60
SS04	12/29/2021	0.5	<0.017	<0.07	<3.4	<9.9	<49	<9.9	<49	120
SS04A	12/29/2021	1	<0.019	<0.08	<3.9	<9.9	<49	<9.9	<49	75

Notes

ft - feet/foot

NMOCD - New Mexico Oil Conservation Division

mg/kg - milligrams per kilograms

NMAC - New Mexico Administrative Code

BTEX - benzene, toluene, ethylbenzene, and total xylenes

< - indicates result is less than the stated laboratory method practical quantitation limit

TPH - total petroleum hydrocarbons

NE - Not Established

DRO - diesel range organics

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

GRO - gasoline range organics

Greyed data represents samples that were excavated

ORO - motor oil range organics

ATTACHMENT 1: PHOTOGRAPHIC LOG

**PHOTOGRAPHIC LOG**

Lucid Energy Group	Juniper 8 Lateral #3 Eddy County, New Mexico	31403665.000
---------------------------	---	---------------------


Photo No.	Date	
1	October 18, 2021	
View of the subject excavation during the site assessment		 A photograph showing a deep excavation in a dry, sandy area. Two large, dark-colored pipes are laid out in a trench. Orange safety fencing is visible on the right side of the excavation. The background shows a flat landscape under a cloudy sky.

Photo No.	Date	
2	October 18, 2021	
View of the subject release area during delineation activities.		 A photograph showing a release area during delineation activities. A white pickup truck is parked in the background. Orange safety fencing is set up around the area. Two large, dark-colored pipes are visible in the foreground. The ground is sandy and uneven.

**PHOTOGRAPHIC LOG**

Lucid Energy Group	Juniper 8 Lateral #3 Eddy County, New Mexico	31403665.000
---------------------------	---	---------------------





Photo No.	Date	
3	December 28, 2021	
View of the excavation during additional remediation activities.		 A photograph showing a deep, narrow excavation in a dry, sandy area. A black pipe runs along the bottom of the excavation. A worker in a hard hat and safety gear stands on the right side of the excavation, looking towards the left. The background shows a flat, open landscape under a clear sky.


Photo No.	Date	
4	December 28, 2021	
View of the excavation during additional remediation activities.		 A photograph showing a wide excavation site. A worker in a hard hat and safety gear stands on the left side of the excavation. A large piece of equipment, possibly a pump or generator, is visible in the background. A red hose or pipe runs across the site. The ground is sandy and uneven.

ATTACHMENT 2: LITHOLOGIC/SOIL SAMPLING LOG

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					SS Name:		Date:			
					SS01		12/29/2021			
					Site Name: Juniper 8 Lateral #3					
					RP or Incident Number: nAB1927551697					
					Job Number:		31403665.000			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: MR		Method: Hand Auger	
Lat/Long: 32.248184°, -103.972489°					Field Screening: Chloride, PID		Hole Diameter: 3"		Total Depth: 1'	
Comments: SAA - Same As Above										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks		
Dry	<151.2	1.4	N/A	SS01	0.5'	0.5'	CCHE	Dry light tan CALICHE, poorly-cemented, no plasticity, no cohesiveness, fine-grained sand with silt matrix, no odor		
Dry	<151.2	1.0	N/A	SS01A	1'	1'		SAA		
								Total Depth: 1'		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					SS Name:		Date:			
					SS02		12/30/2021			
					Site Name: Juniper 8 Lateral #3					
					RP or Incident Number: nAB1927551697					
					Job Number:		31403665.000			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: BB		Method: Hand Auger	
Lat/Long: 32.248184°, -103.972489°					Field Screening: Chloride, PID		Hole Diameter: 3"		Total Depth: 1'	
Comments: SAA - Same As Above										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks		
Dry	<124	0.6	N/A	SS02	0.5'	0.5'	CCHE	Dry light tan CALICHE, poorly-cemented, no plasticity, no cohesiveness, fine-grained sand with silt matrix, no odor		
Dry	<124	0.6	N/A	SS02A	1'	1'		SAA		
								Total Depth: 1'		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					SS Name:		Date:			
					SS03		12/29/2021			
					Site Name: Juniper 8 Lateral #3					
					RP or Incident Number: nAB1927551697					
					Job Number:		31403665.000			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: BB		Method: Hand Auger	
Lat/Long: 32.248184°, -103.972489°					Field Screening: Chloride, PID		Hole Diameter: 3"		Total Depth: 1'	
Comments: SAA - Same As Above										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks		
Dry	<124	1.0	N/A	SS03	0.5'	0.5'	CCHE	Dry light tan CALICHE, poorly-cemented, no plasticity, no cohesiveness, fine-grained sand with silt matrix, no odor		
Dry	<124	0.9	N/A	SS03A	1'	1'		SAA		
								Total Depth: 1'		

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					SS Name:		Date:			
					SS04		12/29/2021			
					Site Name: Juniper 8 Lateral #3					
					RP or Incident Number: nAB1927551697					
					Job Number:		31403665.000			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: BB		Method: Hand Auger	
Lat/Long: 32.248184°, -103.972489°					Field Screening: Chloride, PID		Hole Diameter: 3"		Total Depth: 1'	
Comments: SAA - Same As Above										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks		
Dry	<124	1.2	N/A	SS04	0.5'	0.5'	CCHE	Dry light tan CALICHE, poorly-cemented, no plasticity, no cohesiveness, fine-grained sand with silt matrix, no odor		
Dry	<124	0.6	N/A	SS04A	1'	1'		SAA		
								Total Depth: 1'		

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS



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

November 01, 2021

Michael Gant
Lucid Energy Delaware
201 South 4th St.
Artesia, NM 88210
TEL:
FAX:

RE: Juniper 8 inch Lateral 3

OrderNo.: 2110B24

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/23/2021 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 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS02

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 11:20:00 AM

Lab ID: 2110B24-001

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/29/2021 6:05:45 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/29/2021 6:05:45 PM
Surr: DNOP	113	70-130		%Rec	1	10/29/2021 6:05:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 11:19:02 PM
Surr: BFB	101	70-130		%Rec	1	10/28/2021 11:19:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/28/2021 11:19:02 PM
Toluene	ND	0.049		mg/Kg	1	10/28/2021 11:19:02 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 11:19:02 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2021 11:19:02 PM
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	10/28/2021 11:19:02 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	110	60		mg/Kg	20	10/29/2021 3:50:05 PM

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

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

Page 1 of 14

Analytical Report

Lab Order 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS05

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 12:00:00 PM

Lab ID: 2110B24-002

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/29/2021 6:16:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/29/2021 6:16:56 PM
Surr: DNOP	121	70-130		%Rec	1	10/29/2021 6:16:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/28/2021 11:42:20 PM
Surr: BFB	100	70-130		%Rec	1	10/28/2021 11:42:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/28/2021 11:42:20 PM
Toluene	ND	0.047		mg/Kg	1	10/28/2021 11:42:20 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/28/2021 11:42:20 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/28/2021 11:42:20 PM
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	10/28/2021 11:42:20 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	310	60		mg/Kg	20	10/29/2021 4:02:29 PM

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

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

Page 2 of 14

Analytical Report

Lab Order 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW01

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 1:00:00 PM

Lab ID: 2110B24-003

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	10/29/2021 6:28:05 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/29/2021 6:28:05 PM
Surr: DNOP	119	70-130		%Rec	1	10/29/2021 6:28:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/29/2021 12:05:35 AM
Surr: BFB	98.7	70-130		%Rec	1	10/29/2021 12:05:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/29/2021 12:05:35 AM
Toluene	ND	0.046		mg/Kg	1	10/29/2021 12:05:35 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/29/2021 12:05:35 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/29/2021 12:05:35 AM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	10/29/2021 12:05:35 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	250	60		mg/Kg	20	10/29/2021 5:04:34 PM

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

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

Page 3 of 14

Analytical Report

Lab Order 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS04

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 2:00:00 PM

Lab ID: 2110B24-004

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	9.4	9.1		mg/Kg	1	10/28/2021 11:12:26 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/28/2021 11:12:26 AM
Surr: DNOP	109	70-130		%Rec	1	10/28/2021 11:12:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 12:28:57 AM
Surr: BFB	100	70-130		%Rec	1	10/29/2021 12:28:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/29/2021 12:28:57 AM
Toluene	ND	0.047		mg/Kg	1	10/29/2021 12:28:57 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 12:28:57 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/29/2021 12:28:57 AM
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	10/29/2021 12:28:57 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	300	59		mg/Kg	20	10/29/2021 5:16:58 PM

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

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

Page 4 of 14

Analytical Report

Lab Order 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS03

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 2:10:00 PM

Lab ID: 2110B24-005

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/28/2021 11:22:59 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2021 11:22:59 AM
Surr: DNOP	71.5	70-130		%Rec	1	10/28/2021 11:22:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/29/2021 12:52:19 AM
Surr: BFB	99.4	70-130		%Rec	1	10/29/2021 12:52:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/29/2021 12:52:19 AM
Toluene	ND	0.048		mg/Kg	1	10/29/2021 12:52:19 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/29/2021 12:52:19 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/29/2021 12:52:19 AM
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	10/29/2021 12:52:19 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	290	60		mg/Kg	20	10/29/2021 5:29:22 PM

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

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

Page 5 of 14

Analytical Report

Lab Order 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS07

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 2:20:00 PM

Lab ID: 2110B24-006

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	10/28/2021 11:33:35 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/28/2021 11:33:35 AM
Surr: DNOP	85.7	70-130		%Rec	1	10/28/2021 11:33:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 1:15:37 AM
Surr: BFB	97.9	70-130		%Rec	1	10/29/2021 1:15:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/29/2021 1:15:37 AM
Toluene	ND	0.047		mg/Kg	1	10/29/2021 1:15:37 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 1:15:37 AM
Xylenes, Total	ND	0.095		mg/Kg	1	10/29/2021 1:15:37 AM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	10/29/2021 1:15:37 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	290	60		mg/Kg	20	10/29/2021 5:41:47 PM

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

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

Page 6 of 14

Analytical Report

Lab Order 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS08

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 2:40:00 PM

Lab ID: 2110B24-007

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	13	9.7		mg/Kg	1	10/28/2021 11:44:12 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2021 11:44:12 AM
Surr: DNOP	114	70-130		%Rec	1	10/28/2021 11:44:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 1:38:53 AM
Surr: BFB	97.4	70-130		%Rec	1	10/29/2021 1:38:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/29/2021 1:38:53 AM
Toluene	ND	0.047		mg/Kg	1	10/29/2021 1:38:53 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 1:38:53 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/29/2021 1:38:53 AM
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	10/29/2021 1:38:53 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	360	59		mg/Kg	20	10/29/2021 5:54:11 PM

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

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

Page 7 of 14

Analytical Report

Lab Order 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW06

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 3:00:00 PM

Lab ID: 2110B24-008

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/28/2021 11:54:48 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/28/2021 11:54:48 AM
Surr: DNOP	76.3	70-130		%Rec	1	10/28/2021 11:54:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/29/2021 2:48:27 AM
Surr: BFB	97.1	70-130		%Rec	1	10/29/2021 2:48:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/29/2021 2:48:27 AM
Toluene	ND	0.046		mg/Kg	1	10/29/2021 2:48:27 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/29/2021 2:48:27 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/29/2021 2:48:27 AM
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	10/29/2021 2:48:27 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	110	59		mg/Kg	20	10/29/2021 6:06:35 PM

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

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

Page 8 of 14

Analytical Report

Lab Order 2110B24

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW03

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 3:30:00 PM

Lab ID: 2110B24-009

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/28/2021 12:05:23 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/28/2021 12:05:23 PM
Surr: DNOP	71.6	70-130		%Rec	1	10/28/2021 12:05:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/29/2021 3:11:36 AM
Surr: BFB	94.5	70-130		%Rec	1	10/29/2021 3:11:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/29/2021 3:11:36 AM
Toluene	ND	0.048		mg/Kg	1	10/29/2021 3:11:36 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/29/2021 3:11:36 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/29/2021 3:11:36 AM
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	10/29/2021 3:11:36 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	220	60		mg/Kg	20	10/29/2021 6:19:01 PM

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

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

Page 9 of 14

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

WO#: 2110B24

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: MB-63648	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63648	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926254	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63648	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63648	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926255	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.5	90	110			

Sample ID: MB-63658	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63658	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63658	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63658	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926287	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

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

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

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

WO#: 2110B24

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: 2110B24-004AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FS04	Batch ID: 63615	RunNo: 82434								
Prep Date: 10/27/2021	Analysis Date: 10/28/2021	SeqNo: 2924924 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.5	47.26	9.412	67.1	39.3	155			
Surr: DNOP	4.3		4.726		91.2	70	130			

Sample ID: 2110B24-004AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FS04	Batch ID: 63615	RunNo: 82434								
Prep Date: 10/27/2021	Analysis Date: 10/28/2021	SeqNo: 2924925 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.4	47.21	9.412	70.8	39.3	155	4.02	23.4	
Surr: DNOP	4.3		4.721		90.7	70	130	0	0	

Sample ID: LCS-63615	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63615	RunNo: 82434								
Prep Date: 10/27/2021	Analysis Date: 10/28/2021	SeqNo: 2924946 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	4.7		5.000		94.0	70	130			

Sample ID: MB-63615	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63615	RunNo: 82434								
Prep Date: 10/27/2021	Analysis Date: 10/28/2021	SeqNo: 2924948 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		95.4	70	130			

Sample ID: LCS-63614	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63614	RunNo: 82441								
Prep Date: 10/27/2021	Analysis Date: 10/29/2021	SeqNo: 2926599 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	104	68.9	135			
Surr: DNOP	5.7		5.000		114	70	130			

Qualifiers:

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

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

Page 11 of 14

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110B24

01-Nov-21

Client: Lucid Energy Delaware

Project: Juniper 8 inch Lateral 3

Sample ID: MB-63614	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63614	RunNo: 82441								
Prep Date: 10/27/2021	Analysis Date: 10/29/2021	SeqNo: 2926600	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:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110B24

01-Nov-21

Client: Lucid Energy Delaware

Project: Juniper 8 inch Lateral 3

Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924585		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	1000		1000		102	70	130			

Sample ID: lcs-63586	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924586		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2110B24

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924635	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	0.87		1.000		87.3	70	130			

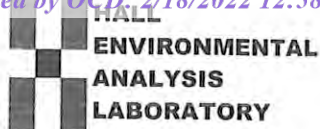
Sample ID: LCS-63586	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	70	130			

Qualifiers:

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

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

Page 14 of 14



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

Sample Log-In Check List

Client Name: Lucid Energy Delaware

Work Order Number: 2110B24

RcptNo: 1

Received By: Sean Livingston 10/23/2021 9:15:00 AM

Completed By: Sean Livingston 10/23/2021 10:49:13 AM

Reviewed By: *See 10/23/21**See Livingston**See Livingston***Chain of Custody**

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Samples not frozen
Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *See 10/23/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	-1.4	Good				
3	4.9	Good				

Chain-of-Custody Record

Client: Lucid Energy Group
Michael Gant
Mailing Address: 201 S 4th Artesia, NM 88210

Phone #: 575-810-6144

email or Fax#: mgant@lucid-energy.com

QA/QC Package:

☐ Standard

☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Juniper 8" Lateral #3

Project #:

31403665.000

Project Manager:

Ben Belill

Sampler: Ben Belill

On Ice: ☒ Yes ☐ No

of Coolers: 3

Cooler Temp (including CF): See Remarks

Container Type and #

Preservative Type

HEAL No.

2110324

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

021

022

023

024

025

026

027

028

029

030

031

032

033

034

035

036

037

038

039

040

041

042

043

044

045

046

047

048

049

050

051

052

053

054

055

056

057

058

059

060

061

062

063

064

065

066

067

068

069

070

071

072

073

074

075

076

077

078

079

080

081

082

083

084

085

086

087

088

089

090

091

092

093

094

095

096

097

098

099

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278



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

November 01, 2021

Michael Gant
Lucid Energy Delaware
201 South 4th St.
Artesia, NM 88210
TEL:
FAX:

RE: Juniper 8 inch Lateral 3

OrderNo.: 2110B26

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/23/2021 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 2110B26

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW02

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 3:15:00 PM

Lab ID: 2110B26-001

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/28/2021 12:58:42 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/28/2021 12:58:42 PM
Surr: DNOP	84.6	70-130		%Rec	1	10/28/2021 12:58:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 3:34:47 AM
Surr: BFB	95.3	70-130		%Rec	1	10/29/2021 3:34:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/29/2021 3:34:47 AM
Toluene	ND	0.047		mg/Kg	1	10/29/2021 3:34:47 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 3:34:47 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/29/2021 3:34:47 AM
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	10/29/2021 3:34:47 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	600	60		mg/Kg	20	10/29/2021 8:35:33 PM

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

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

Page 1 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2110B26
01-Nov-21

Client: Lucid Energy Delaware
Project: Juniper 8 inch Lateral 3

Sample ID: MB-63658	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 63658	RunNo: 82473
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926286 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-63658	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 63658	RunNo: 82473
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926287 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 92.4 90 110

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2110B26

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: LCS-63615	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924946		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	4.7		5.000		94.0	70	130			

Sample ID: MB-63615	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924948		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		95.4	70	130			

Qualifiers:

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

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

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

WO#: 2110B26

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924585	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	1000		1000		102	70	130			

Sample ID: lcs-63586	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924586	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Qualifiers:

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

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

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

WO#: 2110B26

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

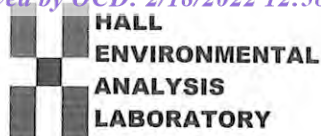
Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924635	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: LCS-63586	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Lucid Energy Delaware

Work Order Number: 2110B26

RcptNo: 1

Received By: Sean Livingston

10/23/2021 9:15:00 AM

Completed By: Sean Livingston

10/23/2021 12:06:19 PM

Reviewed By: *See 10/23/21*

See Livingston
See Livingston

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐ Samples not frozen
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: *See 10/23/21*Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	-1.4	Good				
3	4.9	Good				



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

November 01, 2021

Michael Gant
Lucid Energy Delaware
201 South 4th St.
Artesia, NM 88210
TEL:
FAX:

RE: Juniper 8 inch Lateral 3

OrderNo.: 2110B27

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/23/2021 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 2110B27

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW05

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 4:00:00 PM

Lab ID: 2110B27-001

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/28/2021 1:09:25 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/28/2021 1:09:25 PM
Surr: DNOP	80.3	70-130		%Rec	1	10/28/2021 1:09:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/29/2021 3:57:52 AM
Surr: BFB	97.1	70-130		%Rec	1	10/29/2021 3:57:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/29/2021 3:57:52 AM
Toluene	ND	0.046		mg/Kg	1	10/29/2021 3:57:52 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/29/2021 3:57:52 AM
Xylenes, Total	ND	0.091		mg/Kg	1	10/29/2021 3:57:52 AM
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	10/29/2021 3:57:52 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	920	61		mg/Kg	20	10/29/2021 8:47:57 PM

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

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

Page 1 of 5

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

WO#: 2110B27

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: MB-63658	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63658	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63658	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63658	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926287	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

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

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

Page 2 of 5

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

WO#: 2110B27

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: LCS-63615	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924946		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	4.7		5.000		94.0	70	130			

Sample ID: MB-63615	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924948		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		95.4	70	130			

Qualifiers:

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

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

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

WO#: 2110B27

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924585	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	1000		1000		102	70	130			

Sample ID: lcs-63586	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924586	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Qualifiers:

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

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

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

WO#: 2110B27

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

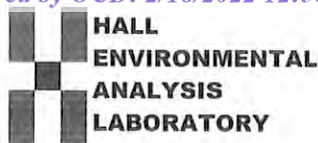
Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924635	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: LCS-63586	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Lucid Energy Delaware

Work Order Number: 2110B27

RcptNo: 1

Received By: Sean Livingston

10/23/2021 9:15:00 AM

Completed By: Sean Livingston

10/23/2021 12:09:55 PM

Reviewed By: *See 10/23/21*

See Log
See Log

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
Samples not frozen
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)

Adjusted? Checked by: *See 10/23/21*

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 PersonRegarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	-1.4	Good				
3	4.9	Good				

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

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: clients.hallenvironmental.com

November 01, 2021

Michael Gant
Lucid Energy Delaware
201 South 4th St.
Artesia, NM 88210
TEL:
FAX:

RE: Juniper 8 inch Lateral 3

OrderNo.: 2110B28

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/23/2021 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 2110B28

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS06

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 12:15:00 PM

Lab ID: 2110B28-001

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/28/2021 1:20:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/28/2021 1:20:12 PM
Surr: DNOP	85.6	70-130		%Rec	1	10/28/2021 1:20:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 4:20:57 AM
Surr: BFB	95.6	70-130		%Rec	1	10/29/2021 4:20:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/29/2021 4:20:57 AM
Toluene	ND	0.047		mg/Kg	1	10/29/2021 4:20:57 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 4:20:57 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/29/2021 4:20:57 AM
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	10/29/2021 4:20:57 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	410	60		mg/Kg	20	10/29/2021 9:25:12 PM

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

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

Page 1 of 5

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

WO#: 2110B28

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: MB-63658		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 63658		RunNo: 82473						
Prep Date: 10/29/2021		Analysis Date: 10/29/2021		SeqNo: 2926286		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63658		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 63658		RunNo: 82473						
Prep Date: 10/29/2021		Analysis Date: 10/29/2021		SeqNo: 2926287		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

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

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

Page 2 of 5

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

WO#: 2110B28

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: LCS-63615	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924946		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	4.7		5.000		94.0	70	130			

Sample ID: MB-63615	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924948		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		95.4	70	130			

Qualifiers:

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

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

Page 3 of 5

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

WO#: 2110B28

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924585	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	1000		1000		102	70	130			

Sample ID: lcs-63586	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924586	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Qualifiers:

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

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

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

WO#: 2110B28

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

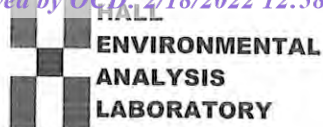
Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924635	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: LCS-63586	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Lucid Energy Delaware

Work Order Number: 2110B28

RcptNo: 1

Received By: Sean Livingston 10/23/2021 9:15:00 AM

Completed By: Sean Livingston 10/23/2021 12:12:30 PM

Reviewed By: *See 10/23/21**See Livingston**See Livingston*Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? Samples not frozen
Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *See 10/23/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	-1.4	Good				
3	4.9	Good				

Chain-of-Custody Record

Client: Lucid Energy Group
Michael Gant
Mailing Address: 201 S 4th Artesia, NM 88210

Phone #: 575-810-6144

email or Fax#: mgant@lucid-energy.com

QA/QC Package:

☐ Standard

☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Juniper 8" Lateral #3

Project #:

31403665.000

Project Manager:

Ben Belill

Sampler: Ben Belill

On Ice: ☒ Yes ☐ No

of Coolers: 3

Cooler Temp (including CP): See remarks

Container

Preservative

Type and #

HEAL No.

2110329

001

Date

Time

Matrix

Sample Name

F506

10/18/21

1715

S

F506



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

November 01, 2021

Michael Gant
Lucid Energy Delaware
201 South 4th St.
Artesia, NM 88210
TEL:
FAX:

RE: Juniper 8 inch Lateral 3

OrderNo.: 2110B29

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/23/2021 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 2110B29

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS01

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 11:00:00 AM

Lab ID: 2110B29-001

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/28/2021 1:30:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2021 1:30:58 PM
Surr: DNOP	94.5	70-130		%Rec	1	10/28/2021 1:30:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/29/2021 4:44:01 AM
Surr: BFB	96.7	70-130		%Rec	1	10/29/2021 4:44:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/29/2021 4:44:01 AM
Toluene	ND	0.050		mg/Kg	1	10/29/2021 4:44:01 AM
Ethylbenzene	ND	0.050		mg/Kg	1	10/29/2021 4:44:01 AM
Xylenes, Total	ND	0.099		mg/Kg	1	10/29/2021 4:44:01 AM
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	10/29/2021 4:44:01 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	300	60		mg/Kg	20	10/29/2021 9:37:37 PM

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

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

Page 1 of 5

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

WO#: 2110B29

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: MB-63658	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63658	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63658	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63658	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926287	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

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

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

Page 2 of 5

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

WO#: 2110B29

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: LCS-63615	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924946		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	4.7		5.000		94.0	70	130			

Sample ID: MB-63615	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924948		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		95.4	70	130			

Qualifiers:

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

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

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

WO#: 2110B29

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924585	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	1000		1000		102	70	130			

Sample ID: lcs-63586	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924586	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Qualifiers:

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

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

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

WO#: 2110B29

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

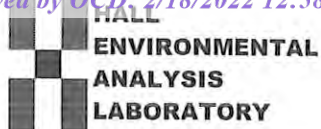
Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924635	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: LCS-63586	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Lucid Energy Delaware

Work Order Number: 2110B29

RcptNo: 1

Received By: Sean Livingston

10/23/2021 9:15:00 AM

Completed By: Sean Livingston

10/23/2021 12:14:20 PM

Reviewed By: *SLC 10/27/21*Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
Samples not frozen
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *SLC 10/23/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	-1.4	Good				
3	4.9	Good				



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

November 01, 2021

Michael Gant
Lucid Energy Delaware
201 South 4th St.
Artesia, NM 88210
TEL:
FAX:

RE: Juniper 8 inch Lateral 3

OrderNo.: 2110B30

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/23/2021 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 2110B30

Date Reported: 11/1/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW04

Project: Juniper 8 inch Lateral 3

Collection Date: 10/18/2021 3:45:00 PM

Lab ID: 2110B30-001

Matrix: SOIL

Received Date: 10/23/2021 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	10/28/2021 1:41:46 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/28/2021 1:41:46 PM
Surr: DNOP	85.5	70-130		%Rec	1	10/28/2021 1:41:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/29/2021 10:56:33 AM
Surr: BFB	103	70-130		%Rec	1	10/29/2021 10:56:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/29/2021 10:56:33 AM
Toluene	ND	0.047		mg/Kg	1	10/29/2021 10:56:33 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/29/2021 10:56:33 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/29/2021 10:56:33 AM
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	10/29/2021 10:56:33 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1100	60		mg/Kg	20	10/29/2021 9:50:02 PM

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

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

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

WO#: 2110B30

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: MB-63658	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63658	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63658	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63658	RunNo: 82473								
Prep Date: 10/29/2021	Analysis Date: 10/29/2021	SeqNo: 2926287	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

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

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

Page 2 of 5

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

WO#: 2110B30

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: LCS-63615	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924946		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	4.7		5.000		94.0	70	130			

Sample ID: MB-63615	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 63615		RunNo: 82434							
Prep Date: 10/27/2021	Analysis Date: 10/28/2021		SeqNo: 2924948		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		95.4	70	130			

Qualifiers:

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

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

Page 3 of 5

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

WO#: 2110B30

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924585	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	1000		1000		102	70	130			

Sample ID: lcs-63586	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924586	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Qualifiers:

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

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

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

WO#: 2110B30

01-Nov-21

Client: Lucid Energy Delaware**Project:** Juniper 8 inch Lateral 3

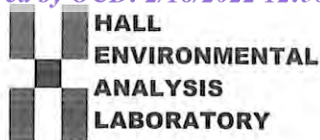
Sample ID: mb-63586	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/29/2021	SeqNo: 2924635	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: LCS-63586	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63586	RunNo: 82415								
Prep Date: 10/26/2021	Analysis Date: 10/28/2021	SeqNo: 2924636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: Lucid Energy Delaware

Work Order Number: 2110B30

RcptNo: 1

Received By: Sean Livingston 10/23/2021 9:15:00 AM

Completed By: Sean Livingston 10/23/2021 12:16:29 PM

Reviewed By: *See 10/23/21*

See Livingston
See Livingston

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
Samples not frozen
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: *See 10/23/21*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	-1.4	Good				
3	4.9	Good				



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

January 07, 2022

Joseph S. Hernandez

Lucid Energy

201 South 4th St.

Artesia, NM 88210

TEL:

FAX:

RE: Juniper 8 Lateral 3

OrderNo.: 2201036

Dear Joseph S. Hernandez:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/4/2022 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 2201036

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SS01

Project: Juniper 8 Lateral 3

Collection Date: 12/29/2021 12:16:00 PM

Lab ID: 2201036-001

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/4/2022 6:49:40 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/4/2022 6:49:40 PM
Surr: DNOP	80.9	70-130		%Rec	1	1/4/2022 6:49:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	1/4/2022 10:03:53 AM
Surr: BFB	92.8	70-130		%Rec	1	1/4/2022 10:03:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	1/4/2022 10:03:53 AM
Toluene	ND	0.036		mg/Kg	1	1/4/2022 10:03:53 AM
Ethylbenzene	ND	0.036		mg/Kg	1	1/4/2022 10:03:53 AM
Xylenes, Total	ND	0.072		mg/Kg	1	1/4/2022 10:03:53 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/4/2022 10:03:53 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	350	60		mg/Kg	20	1/4/2022 8:27:31 PM

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

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

Page 1 of 10

Analytical Report

Lab Order 2201036

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SS01A

Project: Juniper 8 Lateral 3

Collection Date: 12/29/2021 12:20:00 PM

Lab ID: 2201036-002

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/4/2022 7:20:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/4/2022 7:20:55 PM
Surr: DNOP	89.7	70-130		%Rec	1	1/4/2022 7:20:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	1/4/2022 10:27:25 AM
Surr: BFB	92.1	70-130		%Rec	1	1/4/2022 10:27:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	1/4/2022 10:27:25 AM
Toluene	ND	0.042		mg/Kg	1	1/4/2022 10:27:25 AM
Ethylbenzene	ND	0.042		mg/Kg	1	1/4/2022 10:27:25 AM
Xylenes, Total	ND	0.084		mg/Kg	1	1/4/2022 10:27:25 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/4/2022 10:27:25 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	250	60		mg/Kg	20	1/4/2022 8:39:55 PM

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

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

Page 2 of 10

Analytical Report

Lab Order 2201036

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SS03

Project: Juniper 8 Lateral 3

Collection Date: 12/29/2021 12:32:00 PM

Lab ID: 2201036-003

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/4/2022 7:31:20 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/4/2022 7:31:20 PM
Surr: DNOP	76.1	70-130		%Rec	1	1/4/2022 7:31:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	1/4/2022 10:51:16 AM
Surr: BFB	90.6	70-130		%Rec	1	1/4/2022 10:51:16 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	1/4/2022 10:51:16 AM
Toluene	ND	0.043		mg/Kg	1	1/4/2022 10:51:16 AM
Ethylbenzene	ND	0.043		mg/Kg	1	1/4/2022 10:51:16 AM
Xylenes, Total	ND	0.087		mg/Kg	1	1/4/2022 10:51:16 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/4/2022 10:51:16 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/4/2022 8:52:19 PM

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

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

Page 3 of 10

Analytical Report

Lab Order 2201036

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SS03A

Project: Juniper 8 Lateral 3

Collection Date: 12/29/2021 12:40:00 PM

Lab ID: 2201036-004

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/4/2022 7:41:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/4/2022 7:41:45 PM
Surr: DNOP	79.3	70-130		%Rec	1	1/4/2022 7:41:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	1/4/2022 11:14:50 AM
Surr: BFB	91.9	70-130		%Rec	1	1/4/2022 11:14:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	1/4/2022 11:14:50 AM
Toluene	ND	0.032		mg/Kg	1	1/4/2022 11:14:50 AM
Ethylbenzene	ND	0.032		mg/Kg	1	1/4/2022 11:14:50 AM
Xylenes, Total	ND	0.065		mg/Kg	1	1/4/2022 11:14:50 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	1/4/2022 11:14:50 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/4/2022 9:29:32 PM

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

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

Page 4 of 10

Analytical Report

Lab Order 2201036

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SS04

Project: Juniper 8 Lateral 3

Collection Date: 12/29/2021 1:27:00 PM

Lab ID: 2201036-005

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/4/2022 7:52:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/4/2022 7:52:12 PM
Surr: DNOP	82.1	70-130		%Rec	1	1/4/2022 7:52:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	1/4/2022 11:38:25 AM
Surr: BFB	94.0	70-130		%Rec	1	1/4/2022 11:38:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	1/4/2022 11:38:25 AM
Toluene	ND	0.034		mg/Kg	1	1/4/2022 11:38:25 AM
Ethylbenzene	ND	0.034		mg/Kg	1	1/4/2022 11:38:25 AM
Xylenes, Total	ND	0.069		mg/Kg	1	1/4/2022 11:38:25 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/4/2022 11:38:25 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	120	60		mg/Kg	20	1/4/2022 9:41:57 PM

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

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

Page 5 of 10

Analytical Report

Lab Order 2201036

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SS04A

Project: Juniper 8 Lateral 3

Collection Date: 12/29/2021 1:30:00 PM

Lab ID: 2201036-006

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/4/2022 8:02:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/4/2022 8:02:39 PM
Surr: DNOP	80.2	70-130		%Rec	1	1/4/2022 8:02:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	1/4/2022 12:01:58 PM
Surr: BFB	96.5	70-130		%Rec	1	1/4/2022 12:01:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	1/4/2022 12:01:58 PM
Toluene	ND	0.039		mg/Kg	1	1/4/2022 12:01:58 PM
Ethylbenzene	ND	0.039		mg/Kg	1	1/4/2022 12:01:58 PM
Xylenes, Total	ND	0.078		mg/Kg	1	1/4/2022 12:01:58 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	1/4/2022 12:01:58 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	75	60		mg/Kg	20	1/4/2022 9:54:21 PM

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

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

Page 6 of 10

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

WO#: 2201036

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: MB-64847	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64847	RunNo: 84950								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988853	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64847	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64847	RunNo: 84950								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988854	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

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

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

WO#: 2201036

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: 2201036-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SS01	Batch ID: 64835	RunNo: 84921								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988427	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.9	49.60	6.205	76.3	39.3	155			
Surr: DNOP	4.2		4.960		84.6	70	130			

Sample ID: 2201036-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SS01	Batch ID: 64835	RunNo: 84921								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988428	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.8	48.83	6.205	86.5	39.3	155	9.49	23.4	
Surr: DNOP	3.8		4.883		78.5	70	130	0	0	

Sample ID: LCS-64835	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64835	RunNo: 84921								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988438	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	84.1	68.9	135			
Surr: DNOP	4.1		5.000		82.3	70	130			

Sample ID: MB-64835	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64835	RunNo: 84921								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988439	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	8.4		10.00		84.1	70	130			

Qualifiers:

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

Page 8 of 10

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

WO#: 2201036

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: mb-64822	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988058	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	920		1000		92.1	70	130			

Sample ID: lcs-64822	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988059	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	92.0	78.6	131			
Surr: BFB	1100		1000		106	70	130			

Qualifiers:

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

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

WO#: 2201036

07-Jan-22

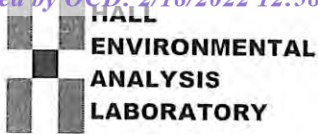
Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: mb-64822	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988080	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	1.0		1.000		103	70	130			

Sample ID: LCS-64822	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988081	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	90.5	80	120			
Toluene	0.91	0.050	1.000	0	90.8	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Lucid Energy

Work Order Number: 2201036

RcptNo: 1

Received By: Isaiah Ortiz 1/4/2022 7:28:00 AM

Completed By: Isaiah Ortiz 1/4/2022 7:45:22 AM

Reviewed By: DAD 1/4/22

I-OK

I-OK

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: SM 1/4/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Not Present			



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

January 07, 2022

Joseph S. Hernandez

Lucid Energy
201 South 4th St.
Artesia, NM 88210
TEL:
FAX:

RE: Juniper 8 Lateral 3

OrderNo.: 2201037

Dear Joseph S. Hernandez:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/4/2022 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 2201037

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SS02

Project: Juniper 8 Lateral 3

Collection Date: 12/30/2021 11:30:00 AM

Lab ID: 2201037-001

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/4/2022 8:13:06 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/4/2022 8:13:06 PM
Surr: DNOP	81.4	70-130		%Rec	1	1/4/2022 8:13:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	1/4/2022 12:25:35 PM
Surr: BFB	91.3	70-130		%Rec	1	1/4/2022 12:25:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	1/4/2022 12:25:35 PM
Toluene	ND	0.040		mg/Kg	1	1/4/2022 12:25:35 PM
Ethylbenzene	ND	0.040		mg/Kg	1	1/4/2022 12:25:35 PM
Xylenes, Total	ND	0.080		mg/Kg	1	1/4/2022 12:25:35 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/4/2022 12:25:35 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	110	60		mg/Kg	20	1/4/2022 10:06:45 PM

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

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

Page 1 of 6

Analytical Report

Lab Order 2201037

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SS02A

Project: Juniper 8 Lateral 3

Collection Date: 12/30/2021 11:40:00 AM

Lab ID: 2201037-002

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	10	9.0		mg/Kg	1	1/4/2022 8:23:34 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/4/2022 8:23:34 PM
Surr: DNOP	79.4	70-130		%Rec	1	1/4/2022 8:23:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	1/4/2022 12:49:17 PM
Surr: BFB	94.7	70-130		%Rec	1	1/4/2022 12:49:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	1/4/2022 12:49:17 PM
Toluene	ND	0.033		mg/Kg	1	1/4/2022 12:49:17 PM
Ethylbenzene	ND	0.033		mg/Kg	1	1/4/2022 12:49:17 PM
Xylenes, Total	ND	0.066		mg/Kg	1	1/4/2022 12:49:17 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	1/4/2022 12:49:17 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/4/2022 10:19:10 PM

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

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

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

WO#: 2201037

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: MB-64847	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64847	RunNo: 84950								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988853	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64847	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64847	RunNo: 84950								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988854	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	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 interference

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

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

WO#: 2201037

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: LCS-64835	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 64835		RunNo: 84921							
Prep Date: 1/4/2022	Analysis Date: 1/4/2022		SeqNo: 2988438		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	84.1	68.9	135			
Surr: DNOP	4.1		5.000		82.3	70	130			

Sample ID: MB-64835	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 64835		RunNo: 84921							
Prep Date: 1/4/2022	Analysis Date: 1/4/2022		SeqNo: 2988439		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	8.4		10.00		84.1	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 interference

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

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

WO#: 2201037

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: mb-64822	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988058	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	920		1000		92.1	70	130			

Sample ID: lcs-64822	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988059	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	92.0	78.6	131			
Surr: BFB	1100		1000		106	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 interference

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

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

WO#: 2201037

07-Jan-22

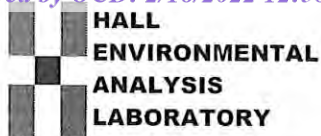
Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: mb-64822	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988080	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	1.0		1.000		103	70	130			

Sample ID: LCS-64822	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988081	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	90.5	80	120			
Toluene	0.91	0.050	1.000	0	90.8	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Lucid Energy

Work Order Number: 2201037

RcptNo: 1

Received By: Isaiah Ortiz

1/4/2022 7:28:00 AM

I-OK

Completed By: Isaiah Ortiz

1/4/2022 7:52:22 AM

I-OK

Reviewed By: DAD 12/4/22

DAD 1/4/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: JR 1/4/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Not Present			



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

January 07, 2022

Joseph S. Hernandez

Lucid Energy

201 South 4th St.

Artesia, NM 88210

TEL:

FAX:

RE: Juniper 8 Lateral 3

OrderNo.: 2201038

Dear Joseph S. Hernandez:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/4/2022 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", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2201038

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW07

Project: Juniper 8 Lateral 3

Collection Date: 12/28/2021 2:35:00 PM

Lab ID: 2201038-001

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/4/2022 8:34:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/4/2022 8:34:08 PM
Surr: DNOP	80.6	70-130		%Rec	1	1/4/2022 8:34:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	1/4/2022 1:36:46 PM
Surr: BFB	94.6	70-130		%Rec	1	1/4/2022 1:36:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	1/4/2022 1:36:46 PM
Toluene	ND	0.038		mg/Kg	1	1/4/2022 1:36:46 PM
Ethylbenzene	ND	0.038		mg/Kg	1	1/4/2022 1:36:46 PM
Xylenes, Total	ND	0.075		mg/Kg	1	1/4/2022 1:36:46 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/4/2022 1:36:46 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	360	60		mg/Kg	20	1/4/2022 10:31:35 PM

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

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

Analytical Report

Lab Order 2201038

Date Reported: 1/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW08

Project: Juniper 8 Lateral 3

Collection Date: 12/28/2021 2:45:00 PM

Lab ID: 2201038-002

Matrix: MEOH (SOIL)

Received Date: 1/4/2022 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/4/2022 8:44:47 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/4/2022 8:44:47 PM
Surr: DNOP	79.4	70-130		%Rec	1	1/4/2022 8:44:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	1/4/2022 2:00:39 PM
Surr: BFB	98.8	70-130		%Rec	1	1/4/2022 2:00:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	1/4/2022 2:00:39 PM
Toluene	ND	0.040		mg/Kg	1	1/4/2022 2:00:39 PM
Ethylbenzene	ND	0.040		mg/Kg	1	1/4/2022 2:00:39 PM
Xylenes, Total	ND	0.079		mg/Kg	1	1/4/2022 2:00:39 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/4/2022 2:00:39 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	200	60		mg/Kg	20	1/5/2022 12:23:14 AM

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

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

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

WO#: 2201038

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: MB-64847	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64847	RunNo: 84950								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988853	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64847	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64847	RunNo: 84950								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988854	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Sample ID: MB-64852	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64852	RunNo: 84950								
Prep Date: 1/4/2022	Analysis Date: 1/4/2022	SeqNo: 2988889	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64852	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64852	RunNo: 84950								
Prep Date: 1/4/2022	Analysis Date: 1/5/2022	SeqNo: 2988890	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Qualifiers:

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

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

WO#: 2201038

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: LCS-64835	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 64835			RunNo: 84921						
Prep Date: 1/4/2022	Analysis Date: 1/4/2022			SeqNo: 2988438		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	84.1	68.9	135			
Surr: DNOP	4.1		5.000		82.3	70	130			

Sample ID: MB-64835	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 64835			RunNo: 84921						
Prep Date: 1/4/2022	Analysis Date: 1/4/2022			SeqNo: 2988439		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	8.4		10.00		84.1	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 interference

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

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

WO#: 2201038

07-Jan-22

Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: mb-64822	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988058	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	920		1000		92.1	70	130			

Sample ID: lcs-64822	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988059	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	92.0	78.6	131			
Surr: BFB	1100		1000		106	70	130			

Qualifiers:

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

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

WO#: 2201038

07-Jan-22

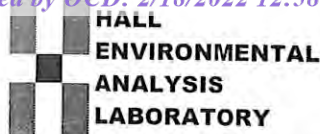
Client: Lucid Energy
Project: Juniper 8 Lateral 3

Sample ID: mb-64822	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988080	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	1.0		1.000		103	70	130			

Sample ID: LCS-64822	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64822	RunNo: 84937								
Prep Date: 1/3/2022	Analysis Date: 1/4/2022	SeqNo: 2988081	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	90.5	80	120			
Toluene	0.91	0.050	1.000	0	90.8	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Lucid Energy

Work Order Number: 2201038

RcptNo: 1

Received By: Isaiah Ortiz

1/4/2022 7:28:00 AM

I-OK

Completed By: Isaiah Ortiz

1/4/2022 8:01:33 AM

I-OK

Reviewed By: DAO 1/4/21

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: JR 1/4/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

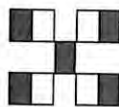
16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Not Present			

[illegible]

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**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks:

Direct bill to Lucid Energy
AFE 300080
Prop # 195211000
Company # 860

Send confirmation and lab report to joe.hernandez@wsp.com & ben.beill@wsp.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 82683

CONDITIONS

Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210	OGRID: 372422
	Action Number: 82683
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Closure approved.	3/21/2022