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	NRM2030456172
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Lucid Energy Delaware	OGRID 372422
Contact Name Michael Gant	Contact Telephone 3143307876
Contact email MGant@lucid-energy.com	Incident # *(assigned by OCD)*
Contact mailing address 201 South 4th Street	

Location of Release Source

Latitude 32.454973° Longitude -103.517454°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Fruitbasket Lateral	Site Type Natural gas gathering line PRV
Date Release Discovered 10/19/2020	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
D	30	21S	34E	Lea

Surface Owner: ☑ State ☐ Federal ☐ Tribal ☐ Private (*Name:* New Mexico State Land Office)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☑ Condensate	Volume Released (bbls) <5 Bbls	Volume Recovered (bbls) 0 Bbls
☑ Natural Gas	Volume Released (Mcf) 1140 MCF	Volume Recovered (Mcf) 0 MCF
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: During a plant shutdown at the Lucid Red Hills Facility excess pressure built up and was rerouted to a PRV on the Fruitbasket Lateral and caused the PRV to pop releasing approximately 1140 MCF of natural gas to the atmosphere and overspray on to nearby vegetation.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030456172
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☑ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? This is considered a major release due to the total lost volume of natural gas of >500 MCF.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
EOG notified Kerry Fortner of OCD district 1 during the event. Lucid Energy notified Jim Griswold and appropriate OCD district 1 personnel by email on 10/20/2020.

Initial Response

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

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

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

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Michael Gant
Title: Environmental Coordinator
Signature: MGant
Date: 11/9/2020
email: MGant@lucid-energy.com
Telephone: 314-330-7876

OCD Only

Received by: Ramona Marcus
Date: 11/23/2020

Incident ID	NRM2030456172
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?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2030456172
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: _____ Date: _____

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

OCD Only

Received by: _____ Date: _____

Incident ID	NRM2030456172
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: 1/24/2022

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

OCD Only

Received by: _____ Date: _____

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: Jennifer Nobui Date: 02/08/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

January 20, 2022

District I
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

RE: Closure Request
Fruitbasket Lateral
Incident Number NRM2030456172
Lea 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 site assessment and delineation activities at the Fruitbasket Lateral (Site) located in Unit D, Section 30, Township 21 South, Range 34 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and delineation activities was to assess the presence or absence of impacts to soil following a release of natural gas at the Site. Based on the delineation activities and results of the soil sampling event, Lucid is submitting this Closure Request, describing site assessment and delineation activities that has occurred and requesting no further action (NFA) for Incident Number NRM2030456172.

RELEASE BACKGROUND

On October 19, 2020, excess pressure built up during a plant shutdown and was rerouted to Pressure Relief Valve (PRV) on the Fruitbasket Lateral and caused the PRV to pop and result in the release of 1,140 thousand cubic feet (MCF) of natural gas and less than 5 bbls of pipeline liquids, of which none were immediately recovered. Lucid reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on November 9, 2020 and was assigned Incident Number NRM2030456172.

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). Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based a United States Geological Survey (USGS) well number 322641103311201, which is located 0.72 miles southwest of the site. The total depth of the well is 68 feet bgs and the depth to groundwater was recorded at 55.66 feet bgs. The referenced well record is included as Attachment 1. While depth to groundwater appears to be between 51 and 100 feet bgs for the Site, the age of the last water well measurement (greater than 25 years) and

well location (greater than 0.5 miles from the Site) do not meet the NMOCD interpretated guidance of estimation of depth to water.

The closest continuously flowing or significant watercourse to the Site is an intermittent streambed, located approximately 5,273 feet 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 likely not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

There do not appear to be any sensitive receptors related to the Site; however, the age of last water well measurement is greater 25 years old and the location of the well is not within 0.5-miles of the Site. Therefore, the follow NMOCD Table 1 Closure Criteria apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESMENT ACTIVITIES

On December 7, 2021, WSP personnel visited the Site to conduct site assessment activities by evaluating the subject release area based on information provided on the Form C-141 and visual observations. WSP reviewed and verified the Form C-141 incident description (release source and release location).

DELINEATION AND SOIL SAMPLING ACTIVITIES

On December 17, 2021, WSP personnel conducted delineation activities to assess the presence or absence of impacts to soil associated with the subject release. Utilizing a hand auger, four delineation soil samples (BH01 through BH04) were advanced inside the subject release extent. Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each of the borehole locations: the sample with the highest observed field screening concentrations (approximately 1 foot bgs) and the greatest depth (ranging from 2 to 4 feet bgs) before encountering auger refusal. The delineation 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. The delineation sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 2. Field screening results and observations for the delineation soil samples were recorded on lithologic/soil sampling logs and are presented in Attachment 2. Photographic documentation is provided in Attachment 3.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated concentrations of benzene, BTEX, TPH and chloride are compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

CLOSURE REQUEST

Site assessment and delineation activities were conducted by WSP at the Site to address the October 19, 2020 release of natural gas and pipeline fluids. Laboratory analytical results for delineation soil samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the delineation soil sample analytical results, no further remediation appears required. As such, Lucid respectfully requests NFA for Incident Number NRM2030456172.

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

Sincerely,

WSP USA Inc.

Joseph S. Hernandez
Consultant, Geologist

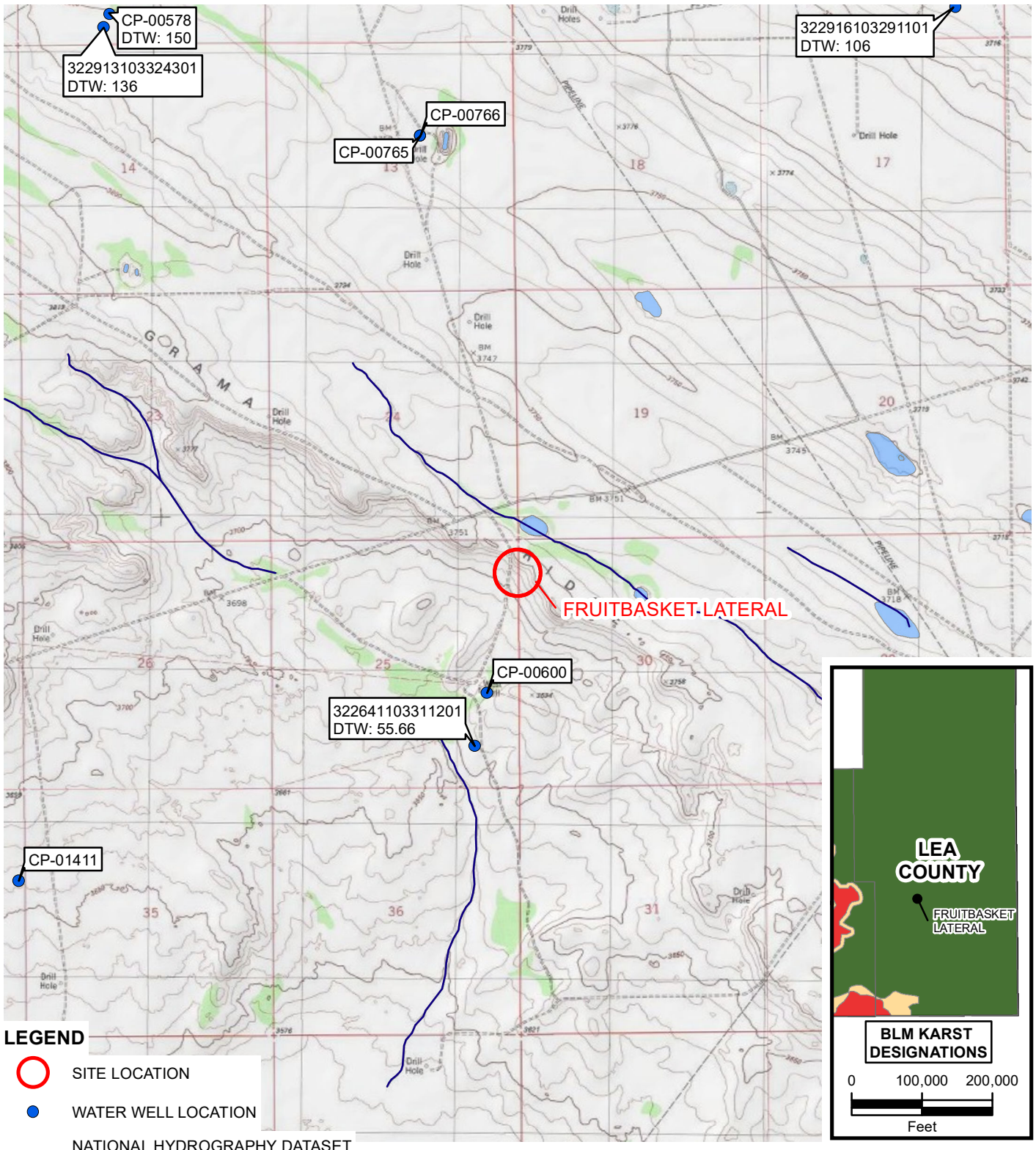
Daniel R. Moir, P.G.
Sr. Lead Consultant, Geologist

cc: Michael Gant, Lucid
New Mexico State Land Office
NMOCD

Attachments:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Record
Attachment 2	Lithologic/Soil Sampling Logs
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports

FIGURES



NOTE: INCIDENT NUMBER NRM2030456172
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
FRUITBASKET LATERAL
UNIT D SEC 13 T23S R32E
LEA COUNTY, NEW MEXICO
LUCID ENERGY GROUP

P:\Lucid Energy Group\GIS\31403665.006_FRUITBASKET LATERAL\MXD\31403665.006_FIG01_SL_RECEPTOR_2022.mxd

IMAGE COURTESY OF ESRI

LEGEND

DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

GAS LINE

0 50 100

Feet

N

NOTE: INCIDENT NUMBER NRM2030456172
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
FRUITBASKET LATERAL
UNIT D SEC 13 T23S R32E
LEA COUNTY, NEW MEXICO
LUCID ENERGY GROUP

P:\Lucid Energy Group\GIS\31403665.006_FRUITBASKET LATERAL\MXD\31403665.006_FIG02_DELINEATION_2022.mxd

TABLES

Table 1

Soil Analytical Results
Fruitbasket Lateral
Incident Number NRM2030456172
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (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	NE	**100**	**600**
Delineation Soil Samples										
BH01	12/17/2021	1	<0.018	<0.07	<9.3	<3.6	<47	<9.3	<47	<60
BH01	12/17/2021	4	<0.019	<0.07	<9.7	<3.7	<48	<9.7	<48	<60
BH02	12/17/2021	1	<0.018	<0.07	<9.9	<3.3	<50	<9.9	<50	<60
BH02	12/17/2021	3	<0.018	<0.07	<9.8	<3.7	<49	<9.8	<49	<60
BH03	12/17/2021	1	<0.017	<0.07	<9.9	<3.4	<49	<9.9	<49	<60
BH03	12/17/2021	3	<0.018	<0.07	<9.8	<3.5	<49	<9.8	<49	<60
BH04	12/17/2021	1	<0.017	<0.07	<9.5	<3.4	<48	<9.5	<48	<60
BH04	12/17/2021	2	<0.017	<0.07	<9.7	<3.5	<49	<9.7	<49	<60

Notes

ft - feet/foot
mg/kg - milligrams per kilograms
BTEX - benzene, toluene, ethylbenzene, and total xylenes
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - motor oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard
Greyed data represents samples that were excavated

ATTACHMENT 1: REFERENCED WELL RECORD

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
								Groundwater	United States	GO

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- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322641103311201

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 322641103311201 21S.33E.25.42322

Lea County, New Mexico
Latitude 32°26'41", Longitude 103°31'12" NAD27
Land-surface elevation 3,660 feet above NAVD88
The depth of the well is 68 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-03-28		D	62610		3601.86	NGVD29	1	Z			A
1968-03-28		D	62611		3603.47	NAVD88	1	Z			A
1968-03-28		D	72019	56.53			1	Z			A
1971-02-04		D	62610		3599.44	NGVD29	1	Z			A
1971-02-04		D	62611		3601.05	NAVD88	1	Z			A
1971-02-04		D	72019	58.95			1	Z			A
1972-09-22		D	62610		3601.86	NGVD29	1	Z			A
1972-09-22		D	62611		3603.47	NAVD88	1	Z			A
1972-09-22		D	72019	56.53			1	Z			A
1976-12-16		D	62610		3600.81	NGVD29	1	Z			A
1976-12-16		D	62611		3602.42	NAVD88	1	Z			A
1976-12-16		D	72019	57.58			1	Z			A
1981-03-10		D	62610		3602.36	NGVD29	1	Z			A
1981-03-10		D	62611		3603.97	NAVD88	1	Z			A
1981-03-10		D	72019	56.03			1	Z			A
1986-03-20		D	62610		3602.73	NGVD29	1	Z			A
1986-03-20		D	62611		3604.34	NAVD88	1	Z			A
1986-03-20		D	72019	55.66			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
Measuring agency					Not determined					
Source of measurement					Not determined					
Water-level approval status				A	Approved for publication -- Processing and review completed.					

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-01-19 10:34:10 EST
0.26 0.24 nadww01

ATTACHMENT 2: LITHOLOGIC/SOIL SAMPLING LOGS

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH01	Date: 12/17/2021
Site Name: Fruit Basket Lateral	
RP or Incident Number: nRM2030456172	
Job Number: 31403665.006	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: CS	Method: Hand Auger		
Lat/Long: 32.454973, -103.5175	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 4'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
Dry	<151.2	0.0	N/A	BH01	1'	1'		Brown, fine grained well sorted sandstone
Dry	<151.2	0.1	N/A	BH01	2'	2'		SAA
Dry	<179.2	0.1	N/A	BH01	3'	3'		SAA
Dry	<179.2	14.5	N/A	BH01	4'	4'		SAA
								Total Depth 4'

WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: BH02	Date: 12/17/2021
	Site Name: Fruit Basket Lateral	
	RP or Incident Number: nRM2030456172	
	Job Number: 31403665.006	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand Auger
Lat/Long: 32.454973, -103.5175	Field Screening: Chloride, PID	Hole Diameter: 3" / Total Depth: 3.5'
Comments:		

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
Dry	<151.2	0.0	N/A	BH02	1'	1'		Brown, fine grained well sorted sandstone
Dry	<151.2	0.2	N/A	BH02	2'	2'		SAA
Dry	<179.2	2.0	N/A	BH02	3'	3'		SAA
					3.5'	3.5'		Auger Refusal @ 3.5'

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH03	Date: 12/17/2021		
Site Name: Fruit Basket Lateral			
RP or Incident Number: nRM2030456172			
Job Number: 31403665.006			
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: CS	Method: Hand Auger	
Lat/Long: 32.454973, -103.5175	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 3.5'
Comments:			

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
Dry	<151.2	0.0	N/A	BH03	1'	1'		Brown, fine grained well sorted sandstone
Dry	<151.2	0.2	N/A	BH03	2'	2'		SAA
Dry	<179.2	2.0	N/A	BH03	3'	3'		SAA
					3.5'	3.5'		Auger Refusal @ 3.5'

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: BH04	Date: 12/17/2021
Site Name Fruit Basket Lateral	
RP or Incident Number: nRM2030456172	
Job Number: 31403665.006	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By CS	Method: Hand Auger		
Lat/Long: 32.454973, -103.5175	Field Screening: Chloride, PID	Hole Diameter: 3"	Total Depth: 2'

Comments:

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		
Dry	<151.2	0.0	N/A	BH04	1'	1'		Brown, fine grained well sorted sandstone
Dry	<151.2	0.2	N/A	BH04	2'	2'		SAA
								Auger Refusal @ 2'

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
Lucid Energy Group	**Fruitbasket Lateral** **Lea County, New Mexico**	**31403665.006**

Photo No.	**Date**
1	December 17, 2021

View of the subject release area during delineation activities.

Photo No.	**Date**
2	December 17, 2021

View of the subject release area during delineation activities.

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 27, 2021

Joseph S. Hernandez

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

RE: Fruitbasket nRM2030456172 OrderNo.: 2112C07

Dear Joseph S. Hernandez:

Hall Environmental Analysis Laboratory received 8 sample(s) on 12/21/2021 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2112C07**
Date Reported: **12/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy **Client Sample ID:** BH01@1'
Project: Fruitbasket nRM2030456172 **Collection Date:** 12/17/2021 10:25:00 AM
Lab ID: 2112C07-001 **Matrix:** MEOH (SOIL) **Received Date:** 12/21/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/21/2021 12:20:04 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/21/2021 12:20:04 PM
Surr: DNOP	106	70-130		%Rec	1	12/21/2021 12:20:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	12/21/2021 3:17:24 PM
Surr: BFB	92.7	70-130		%Rec	1	12/21/2021 3:17:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.018		mg/Kg	1	12/21/2021 3:17:24 PM
Toluene	ND	0.036		mg/Kg	1	12/21/2021 3:17:24 PM
Ethylbenzene	ND	0.036		mg/Kg	1	12/21/2021 3:17:24 PM
Xylenes, Total	ND	0.071		mg/Kg	1	12/21/2021 3:17:24 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/21/2021 3:17:24 PM
EPA METHOD 300.0: ANIONS						Analyst: **LRN**
Chloride	ND	60		mg/Kg	20	12/21/2021 11:44:10 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2112C07**
Date Reported: **12/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy **Client Sample ID:** BH02@1'
Project: Fruitbasket nRM2030456172 **Collection Date:** 12/17/2021 10:30:00 AM
Lab ID: 2112C07-002 **Matrix:** MEOH (SOIL) **Received Date:** 12/21/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/21/2021 12:30:47 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/21/2021 12:30:47 PM
Surr: DNOP	92.9	70-130		%Rec	1	12/21/2021 12:30:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	12/21/2021 3:40:42 PM
Surr: BFB	101	70-130		%Rec	1	12/21/2021 3:40:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.017		mg/Kg	1	12/21/2021 3:40:42 PM
Toluene	ND	0.033		mg/Kg	1	12/21/2021 3:40:42 PM
Ethylbenzene	ND	0.033		mg/Kg	1	12/21/2021 3:40:42 PM
Xylenes, Total	ND	0.066		mg/Kg	1	12/21/2021 3:40:42 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/21/2021 3:40:42 PM
EPA METHOD 300.0: ANIONS						Analyst: **LRN**
Chloride	ND	60		mg/Kg	20	12/21/2021 11:56:34 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2112C07**
Date Reported: **12/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy **Client Sample ID:** BH03@1'
Project: Fruitbasket nRM2030456172 **Collection Date:** 12/17/2021 10:35:00 AM
Lab ID: 2112C07-003 **Matrix:** MEOH (SOIL) **Received Date:** 12/21/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/21/2021 12:41:33 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/21/2021 12:41:33 PM
Surr: DNOP	90.1	70-130		%Rec	1	12/21/2021 12:41:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	12/21/2021 4:04:00 PM
Surr: BFB	92.5	70-130		%Rec	1	12/21/2021 4:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.017		mg/Kg	1	12/21/2021 4:04:00 PM
Toluene	ND	0.034		mg/Kg	1	12/21/2021 4:04:00 PM
Ethylbenzene	ND	0.034		mg/Kg	1	12/21/2021 4:04:00 PM
Xylenes, Total	ND	0.069		mg/Kg	1	12/21/2021 4:04:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/21/2021 4:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **LRN**
Chloride	ND	60		mg/Kg	20	12/21/2021 12:08:58 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2112C07**
Date Reported: **12/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy **Client Sample ID:** BH04@1'
Project: Fruitbasket nRM2030456172 **Collection Date:** 12/17/2021 10:40:00 AM
Lab ID: 2112C07-004 **Matrix:** MEOH (SOIL) **Received Date:** 12/21/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/21/2021 12:52:21 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2021 12:52:21 PM
Surr: DNOP	88.6	70-130		%Rec	1	12/21/2021 12:52:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	12/21/2021 4:27:17 PM
Surr: BFB	94.6	70-130		%Rec	1	12/21/2021 4:27:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.017		mg/Kg	1	12/21/2021 4:27:17 PM
Toluene	ND	0.034		mg/Kg	1	12/21/2021 4:27:17 PM
Ethylbenzene	ND	0.034		mg/Kg	1	12/21/2021 4:27:17 PM
Xylenes, Total	ND	0.068		mg/Kg	1	12/21/2021 4:27:17 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/21/2021 4:27:17 PM
EPA METHOD 300.0: ANIONS						Analyst: **LRN**
Chloride	ND	60		mg/Kg	20	12/21/2021 12:21:22 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2112C07**
Date Reported: **12/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy **Client Sample ID:** BH01@4'
Project: Fruitbasket nRM2030456172 **Collection Date:** 12/17/2021 12:30:00 PM
Lab ID: 2112C07-005 **Matrix:** MEOH (SOIL) **Received Date:** 12/21/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/21/2021 1:03:20 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2021 1:03:20 PM
Surr: DNOP	89.6	70-130		%Rec	1	12/21/2021 1:03:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	12/21/2021 4:50:35 PM
Surr: BFB	92.0	70-130		%Rec	1	12/21/2021 4:50:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.019		mg/Kg	1	12/21/2021 4:50:35 PM
Toluene	ND	0.037		mg/Kg	1	12/21/2021 4:50:35 PM
Ethylbenzene	ND	0.037		mg/Kg	1	12/21/2021 4:50:35 PM
Xylenes, Total	ND	0.074		mg/Kg	1	12/21/2021 4:50:35 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/21/2021 4:50:35 PM
EPA METHOD 300.0: ANIONS						Analyst: **LRN**
Chloride	ND	60		mg/Kg	20	12/21/2021 12:33:47 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2112C07**
Date Reported: **12/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy **Client Sample ID:** BH02@3'
Project: Fruitbasket nRM2030456172 **Collection Date:** 12/17/2021 12:00:00 PM
Lab ID: 2112C07-006 **Matrix:** MEOH (SOIL) **Received Date:** 12/21/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/21/2021 1:14:17 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/21/2021 1:14:17 PM
Surr: DNOP	90.3	70-130		%Rec	1	12/21/2021 1:14:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	12/21/2021 5:14:08 PM
Surr: BFB	93.4	70-130		%Rec	1	12/21/2021 5:14:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.018		mg/Kg	1	12/21/2021 5:14:08 PM
Toluene	ND	0.037		mg/Kg	1	12/21/2021 5:14:08 PM
Ethylbenzene	ND	0.037		mg/Kg	1	12/21/2021 5:14:08 PM
Xylenes, Total	ND	0.074		mg/Kg	1	12/21/2021 5:14:08 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/21/2021 5:14:08 PM
EPA METHOD 300.0: ANIONS						Analyst: **LRN**
Chloride	ND	60		mg/Kg	20	12/21/2021 12:46:11 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2112C07**
Date Reported: **12/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy **Client Sample ID:** BH03@3'
Project: Fruitbasket nRM2030456172 **Collection Date:** 12/17/2021 12:10:00 PM
Lab ID: 2112C07-007 **Matrix:** MEOH (SOIL) **Received Date:** 12/21/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/21/2021 1:25:14 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/21/2021 1:25:14 PM
Surr: DNOP	91.9	70-130		%Rec	1	12/21/2021 1:25:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	12/21/2021 5:37:38 PM
Surr: BFB	90.2	70-130		%Rec	1	12/21/2021 5:37:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.018		mg/Kg	1	12/21/2021 5:37:38 PM
Toluene	ND	0.035		mg/Kg	1	12/21/2021 5:37:38 PM
Ethylbenzene	ND	0.035		mg/Kg	1	12/21/2021 5:37:38 PM
Xylenes, Total	ND	0.071		mg/Kg	1	12/21/2021 5:37:38 PM
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	12/21/2021 5:37:38 PM
EPA METHOD 300.0: ANIONS						Analyst: **LRN**
Chloride	ND	60		mg/Kg	20	12/21/2021 1:23:25 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Analytical Report
Lab Order **2112C07**
Date Reported: **12/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy **Client Sample ID:** BH04@2'
Project: Fruitbasket nRM2030456172 **Collection Date:** 12/17/2021 11:25:00 AM
Lab ID: 2112C07-008 **Matrix:** MEOH (SOIL) **Received Date:** 12/21/2021 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/21/2021 1:36:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/21/2021 1:36:08 PM
Surr: DNOP	92.5	70-130		%Rec	1	12/21/2021 1:36:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	12/21/2021 6:01:13 PM
Surr: BFB	90.5	70-130		%Rec	1	12/21/2021 6:01:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.017		mg/Kg	1	12/21/2021 6:01:13 PM
Toluene	ND	0.035		mg/Kg	1	12/21/2021 6:01:13 PM
Ethylbenzene	ND	0.035		mg/Kg	1	12/21/2021 6:01:13 PM
Xylenes, Total	ND	0.070		mg/Kg	1	12/21/2021 6:01:13 PM
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	12/21/2021 6:01:13 PM
EPA METHOD 300.0: ANIONS						Analyst: **LRN**
Chloride	ND	60		mg/Kg	20	12/21/2021 1:35:49 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112C07**
27-Dec-21

Client: Lucid Energy
Project: Fruitbasket nRM2030456172

Sample ID: **MB-64660**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **64660**	RunNo: **84699**							
Prep Date: **12/21/2021**	Analysis Date: **12/21/2021**	SeqNo: **2979707**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-64660**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **64660**	RunNo: **84699**							
Prep Date: **12/21/2021**	Analysis Date: **12/21/2021**	SeqNo: **2979708**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
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#: **2112C07**
27-Dec-21

Client: Lucid Energy
Project: Fruitbasket nRM2030456172

Sample ID: **MB-64653**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **64653**	RunNo: **84681**
Prep Date: **12/21/2021**	Analysis Date: **12/21/2021**	SeqNo: **2978068** 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	9.0		10.00		89.8	70	130			

Sample ID: **LCS-64653**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **64653**	RunNo: **84681**
Prep Date: **12/21/2021**	Analysis Date: **12/21/2021**	SeqNo: **2978069** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.2	68.9	135			
Surr: DNOP	4.1		5.000		82.6	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
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#: **2112C07**
27-Dec-21

Client: Lucid Energy
Project: Fruitbasket nRM2030456172

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **B84701**	RunNo: **84701**
Prep Date:	Analysis Date: **12/21/2021**	SeqNo: **2978920** 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	940		1000		94.4	70	130			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **B84701**	RunNo: **84701**
Prep Date:	Analysis Date: **12/21/2021**	SeqNo: **2978921** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.3	78.6	131			
Surr: BFB	1000		1000		104	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
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#: **2112C07**

27-Dec-21

Client: Lucid Energy

Project: Fruitbasket nRM2030456172

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **E84701**	RunNo: **84701**
Prep Date:	Analysis Date: **12/21/2021**	SeqNo: **2978967** 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		102	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **E84701**	RunNo: **84701**
Prep Date:	Analysis Date: **12/21/2021**	SeqNo: **2978968** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.5	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **2112C07** RcptNo: **1**

Received By: **Cheyenne Cason** **12/21/2021 8:00:00 AM**

Completed By: **Desiree Dominguez** **12/21/2021 8:27:26 AM**

Reviewed By: TMc 12/21/21 9:02

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. 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 12/21/21

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-1.2	Good				
2	0.9	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 24 Hour

Project Name: Fruitbasket (nRM2030456172)

Project #:

Project Manager: Joseph S. Hernandez

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 2 -1.0 -0.2 = -1.2

Cooler Temp(including CF): 1.1 -0.2 = 0.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2112C07	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/17	1025	S	BH01 @ 1'	1	N/A	-001	X	X					X			
12/17	1030		BH02 @ 1'	1		-002										
12/17	1035		BH03 @ 1'	1		-003										
12/17	1040		BH04 @ 1'	1		-004										
12/17	1230		BH01 @ 4'	1		-005										
12/17	1200		BH02 @ 3'	1		-006										
12/17	1210		BH03 @ 3'	1		-007										
12/17	1125		BH04 @ 3'	1		-008										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/20	1115				12/20/21	1115
12/20/21	1900			Courier	12/21/21	0800

Remarks:

Direct bill to Lucid Energy
Prop # 195227500
Company # 860
Send confirmation and lab report to joe.hernandez@wsp.com

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

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 74804

CONDITIONS

Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210	OGRID: 372422
	Action Number: 74804
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	2/8/2022