March 16, 2021

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: Closure Request
Limestone Compressor Station Overspray
Incident Number: nRM2032830684
Lea County, New Mexico

Dear Mr. Bratcher:

Lucid Energy Group (Lucid) presents the following Closure Request detailing site assessment and soil sampling activities at the Limestone compressor station (Site) in Unit B, Section 35, Township 24 South, Range 34 East, in Lea County, New Mexico under surface ownership of the New Mexico State Lands (NMSLO) (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil associated with a release of natural gas and condensate at the Site and subsequent biological treatment of impacted soil. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, Lucid is submitting this Closure Request. Lucid requests no further action for this site. Listed below is a brief summation of the Site details in Table 1.

Table 1: Site and Release information	
Name	Limestone Compressor Station Overspray
Company	Lucid Energy Delaware
Incident Number	nRM2032830684
Location	32.268060° -103.437368°
Estimated Date of Release	9/27/2020
Date reported to NMOCD	10/15/2020
Landowner	New Mexico State Land Office
Reported to	NMOCD District II and NMSLO
Source of Release	Condensate tank
Released Material	Natural Gas Condensate
Released Volume	~5 bbls, 420MCF
Recovered Volume	~5 bbls
Net Release	420 MCF
Nearest Waterway	4.9 miles southeast

Depth to Groundwater	Estimated to be >100'
Nearest Domestic Water source	Greater than 1000'
Lucid Activity Dates	9/27-9/30, 10/14, 10/21

1.0 RELEASE BACKGROUND

On September 27, 2020, a pumper noticed the Limestone compressor station tanks overflowing into containment and spraying a mist of pipeline liquids and condensate onto NMSLO land north of the pad. Approximately 5 barrels (Bbls) of natural gas condensate/oil were released into containment. Approximately 420 MCF of natural gas was released to atmosphere and the surrounding environment. Lucid reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on November 9, 2020 which was received and assigned Incident Number nRM2032830684 on November 23, 2020. Lucid was initially planning to submit a closure request along with the initial release notification however staining observed on the surface and scheduling conflicts prevented prompt characterization resulting in the delayed notification submittal. The Form C-141 is provided as Appendix A.

2.0 SITE CHARACTERIZATION

Lucid characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data attained from the New Mexico Office of the State Engineer (NMOSE). The United States Geological Survey groundwater database showed no wells within a reasonable proximity to the Site. The closest permitted groundwater well, CP-01708, with depth to groundwater data is located approximately 0.67 miles directly east of the Site. The groundwater well has a reported depth to the artesian aquifer of approximately >750 feet bgs. The Site is greater than 300 feet from any continuously flowing or significant watercourse. 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, or church. 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 located greater than 300 feet from a wetland. The Site is located in a low-potential karst area. The surface geology of the Site is comprised mostly of the Simona series sand and some of the Tonuco series. The Simona series is described as grayish-brown, fine-grained, shallow, well drained, soil formed in calcareous sandy sediments. The Tonuco series is described as a brown to reddish-brown, fine-grained, excessively drained soil from coarse textured alluvium from various sources. During surface sampling activities of the Site the Simona series was encountered throughout at 0 to 1 feet bgs. Karst potential receptors identified during site characterization are displayed in Figure 1. NMOSE groundwater data for surrounding wells is presented in Appendix C.

3.0 CLOSURE CRITERIA

In lieu of attaining a definitive groundwater depth via listed methods and lacking current groundwater information within reasonable proximity, Lucid remediated the Site according to the strictest closure criteria relevant to groundwater depth of <50 feet bgs, listed in NMAC 19.15.29 Table 1 Closure Criteria (Closure Criteria). Based on the results of the site characterization, the following 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

4.0 INITIAL RESPONSE

During the response to the release, Lucid personnel contracted a vacuum truck to remove any standing liquids that collected in the tank battery containment. Pipeline liquids and condensate that impacted the surrounding surface and the nearby road were scraped up using a backhoe. The subject back pressure valve was repaired, and surface samples were collected by a Lucid EHSR technician. The locations of samples are presented in Figure 2 and laboratory analytical results are summarized in Table 2. The complete laboratory analytical report is included in Appendix D.

5.0 DELINEATION SOIL SAMPLING ACTIVITIES

On September 28, Lucid personnel conducted site investigative activities to evaluate the release extent and current conditions. Light surface staining was visually observed in the overspray area north of the road while some heavier staining was observed in the immediate proximity of the tanks and in the road directly north of the tanks. Aerial site photos collected by Unmanned Aerial Systems (UAS) showed the distribution of the overspray. Photographic documentation was conducted during the Site visit and a Photographic Log is included in Appendix B.

Lucid personnel conducted delineation activities to define the horizontal extent of the impacted area. Utilizing a hand trowel and/or shovel, ten surface samples (HA-1 through HA-5) were collected within and around the release footprint to verify the presence or absence of soil impacts. Samples were collected in the soils of the overspray area and where the scraped road contacts the overspray area. Surface soil samples were collected at approximately 3-6 inches bgs and at 10-12 inches bgs. Field screening indicated that vertical impacts were minimal due to the nature of the overspray release. Sampled depths are approximations due to the composition and nature of the fine-grained sands of the Simona series. The locations of samples are presented in Figure 2 and laboratory analytical results are summarized in Table 2.

Field screening was conducted for chloride using Hach® chloride QuanTab® test strips. Field screening was conducted for hydrocarbon volatile organic compounds (VOCs) using a MiniRAE® Lite+ PID Monitor. The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures, to Hall Laboratories (Hall) in Albuquerque, New Mexico, for analysis of BTEX following United States EPA Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and/or chloride following EPA Method 300.0. The complete laboratory analytical report is included in Appendix D. Additionally, photographic documentation from delineation activities is also included in Appendix B.

6.0 REMEDIATION ACTIVITIES

Remediation activities began immediately during the initial response to the overspray event. On September 27, Lucid personnel and A2Z Services (A2Z) began remedial activities at the Site. One initial in situ Micro-Blaze® bioremedial treatment was applied to the immediate surface area around the tank battery and throughout the overspray area including the road north of the tank battery. In lieu of attaining a definitive groundwater depth via listed methods and lacking current groundwater information nearby, Lucid remediated the Site in conjunction with the strictest closure criteria relevant to groundwater depth of <50 feet bgs, listed in NMAC 19.15.29 Table 1. The closest groundwater well is approximately 0.67 miles to the east of the Site, groundwater well data from NMOSE are listed in Appendix C.

On September 30 and again on October 14, A2Z was onsite to apply two more in situ Micro-Blaze® bioremedial treatments to the overspray surface area and with additional attention to the vegetation. Samples were again field screened for hydrocarbon VOCs and chlorides with no impacts detected. After receipt of the analytical results from initial delineation sampling one sample, HA-1-S at 3-6 inches bgs, returned with TPH detected at 156 ppm mostly in the MRO and DRO hydrocarbon range. On October 21, a five-point composite sample HA-6-C-S, was collected relative to HA-1-S. Field screening of the sample indicated no remaining hydrocarbon nor chloride impacts. Sample HA-6-C-S was sent to Hall for further analysis.

Field screening was conducted for chloride using Hach® chloride QuanTab® test strips. Field screening was conducted for hydrocarbon VOCs using a MiniRAE Lite+ PID Monitor. The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4° C, under strict COC procedures, to Hall, for analysis of BTEX following United States EPA Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and/or chloride following EPA Method 300.0. The complete laboratory analytical report is included in Appendix D. Additionally, photographic documentation from remediation activities is also included in Appendix B.

7.0 ANALYTICAL

All overspray area composite sample locations (HA-6-C-S) analyzed for chloride and hydrocarbon concentrations yielded concentrations below the Closure Criteria. All other delineation grab samples indicated BTEX, TPH-GRO, TPH-DRO, TPH-MRO, and Total TPH concentrations below the applicable Closure Criteria at multiple depths. Hydrocarbon and chloride impacts have been delineated vertically and laterally. Soil sample analytical results are reported in Table 2. The complete laboratory analytical report is included in Appendix D.

8.0 CLOSURE REQUEST

Based on the analytical data indicating hydrocarbon and chloride impacts have been delineated and the bioremediation of impacted surface material and vegetation, Lucid respectfully requests closure of the Site and no further action associated with Incident Number nRM2032830684. Lucid will commence corrective action to address reseeding the Site once temperatures have risen adequately for more effective revegetation. If you have any questions or comments, please do not hesitate to contact Mr. Michael Gant at 314-330-7876.

Sincerely,

LUCID ENERGY GROUP

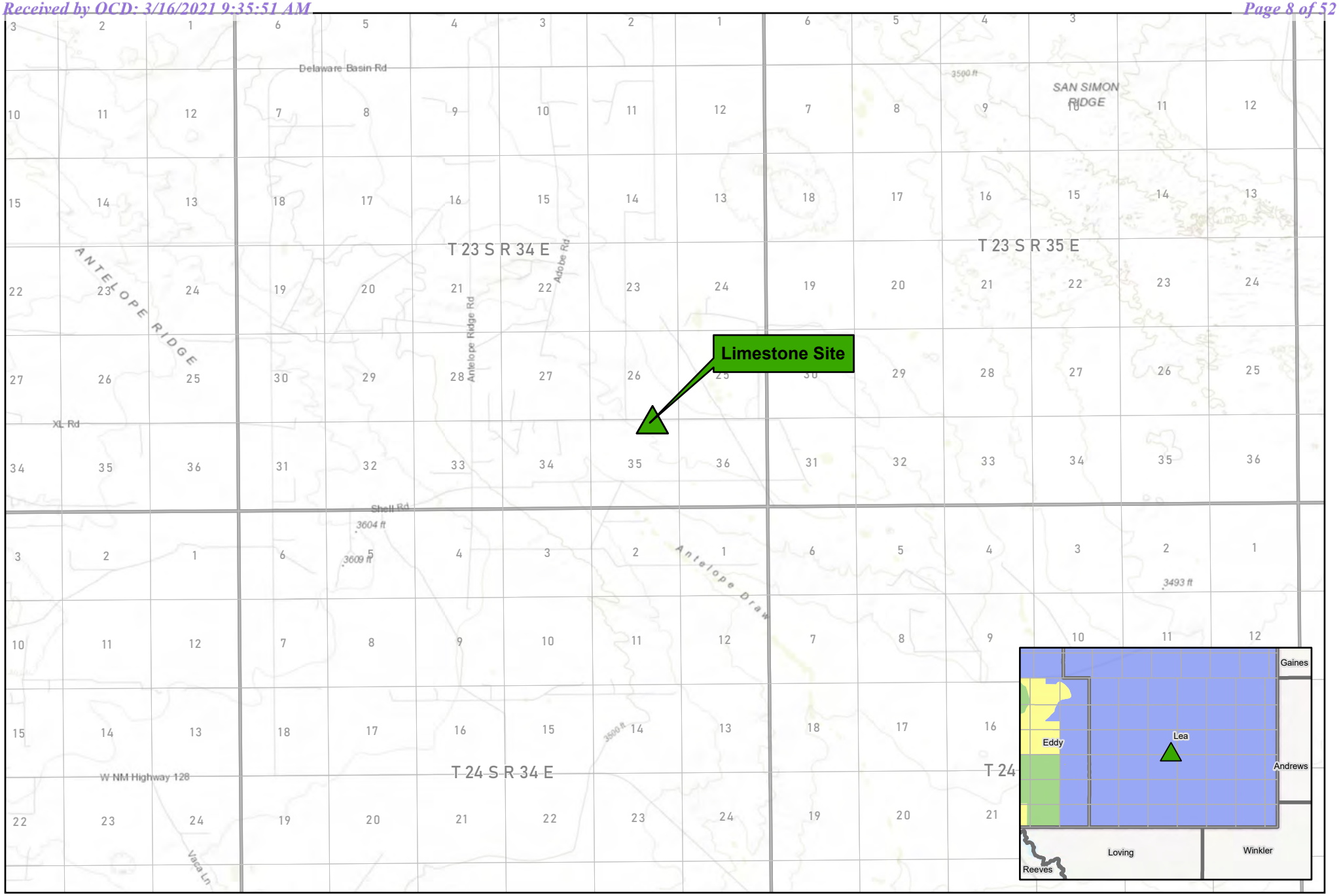
Michael Gant
Environmental Coordinator

cc: Ryan Mann, NMSLO
Emily Hernandez, NMOCD
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Appendices:

Figure 1 Site Receptor Map
Figure 2 Delineation Soil Sample Locations

FIGURES



Lucid Energy Group
201 South 4th Street
Artesia, NM 88210

LEGEND

Site

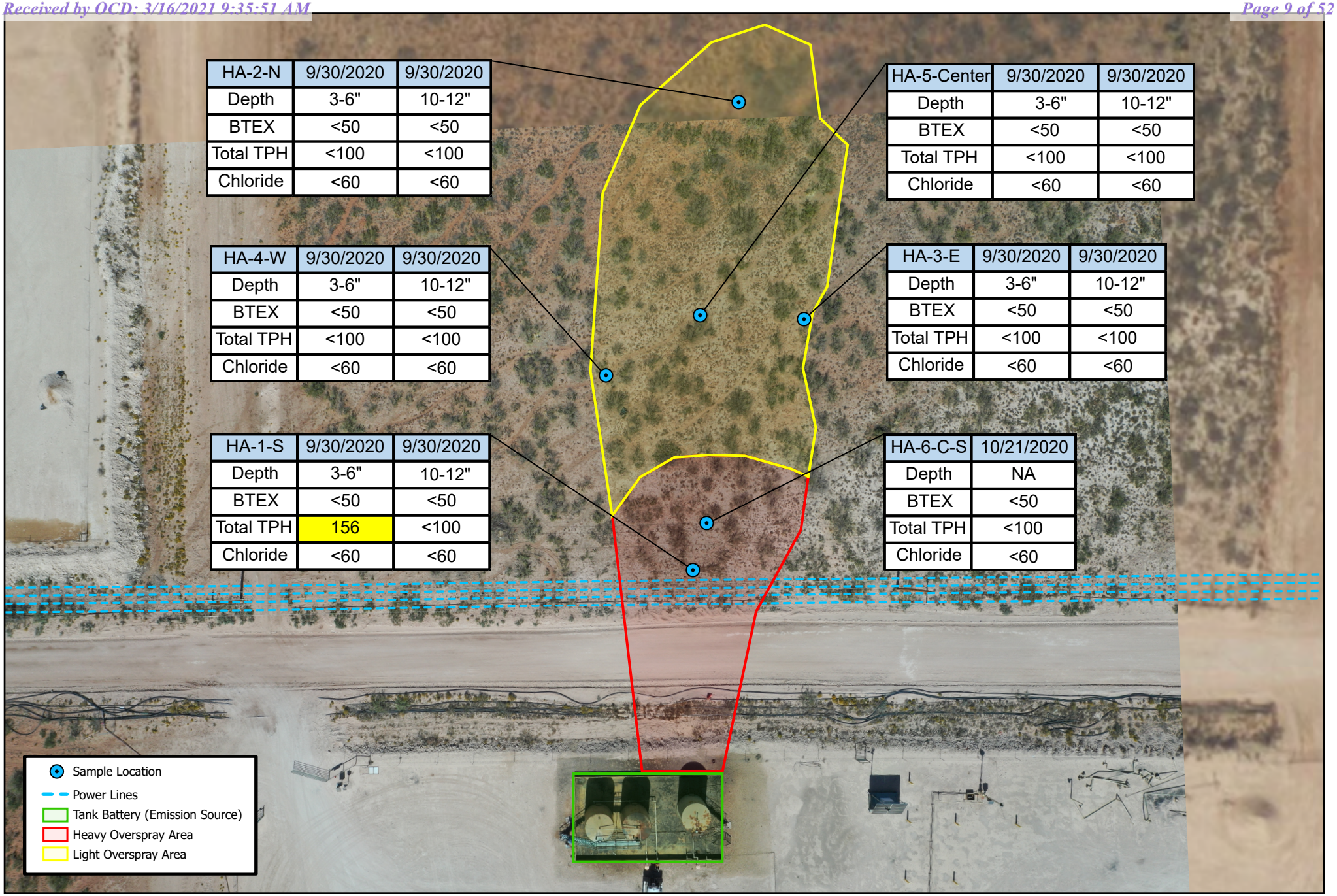
Karst
Critical
High
Medium
Low

Coordinate System
NAD 1983 StatePlane New Mexico
East FIPS 3001 Feet

0 5,000 10,000 Feet

Figure 1: Site Location Map

Limestone Overspray
Eddy County, NM
32.2686268°, -103.4373459°



LUCID energy group

Lucid Energy Group
201 South 4th Street
Artesia, NM 88210

NOTES:

1. Analytical Values are given in mg/Kg (ppm).
2. Analytical Values in yellow shading exceed NMED RRAL's.

N
W E
S

Coordinate System
NAD 1983 StatePlane New Mexico
East FIPS 3001 Feet

0 50 100 Feet

Figure 2: Limestone Sample Location
Limestone Overspray
Lea County, NM
32.2682516°, -103.4373533°

TABLES

LUCID energy group

Table 2
Soil Sample Analytical Results
Limestone Compressor Station
Lea County, NM

Sample ID	Depth (feet)	Date	Benzene	Toluene	Ethyl-benzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Chlorides
HA-1-S	3-6"	9/30/2020	<.023	<.047	<.047	<.093	<50	<4.7	36	120	156	<60
HA-1-S	10-12"	9/30/2020	<.024	<.049	<.049	<.098	<50	<4.9	<9.5	<47	<100	<60
HA-2-N	3-6"	9/30/2020	<.023	<.046	<.046	<.092	<50	<4.6	<9.5	<48	<100	<60
HA-2-N	10-12"	9/30/2020	<.023	<.047	<.047	<.094	<50	<4.7	<8.9	<44	<100	<60
HA-3-E	3-6"	9/30/2020	<.024	<.048	<.048	<.097	<50	<4.8	<9.3	<47	<100	<60
HA-3-E	10-12"	9/30/2020	<.024	<.048	<.048	<.095	<50	<4.8	<10	<50	<100	<60
HA-4-W	3-6"	9/30/2020	<.024	<.048	<.048	<.097	<50	<4.8	<8.8	<44	<100	<60
HA-4-W	10-12"	9/30/2020	<.024	<.049	<.049	<.097	<50	<4.9	<9.9	<49	<100	<60
HA-5-Center	3-6"	9/30/2020	<.023	<.046	<.046	<.092	<50	<4.6	<9.5	<48	<100	<60
HA-5-Center	10-12"	9/30/2020	<.023	<.047	<.047	<.093	<50	<4.7	<9.8	<49	<100	<60
HA-6-C-S	3-6"	10/21/2020	<.023	<.046	<.046	<.093	<50	<4.6	<9.8	<49	<100	<60
NMOCD Table 1 Closure Limits			**10**	**Total BTEX: 50**				**Total TPH: 100**				**600**

Notes:
All sample results are in milligrams per kilogram
NMOCD = New Mexico Oil Conservation Division
Table 1 Closure Limits = In accordance with 19.15.29 Release Rule
NA = Not Analyzed
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
MRO = Motor Oil Range Organics
Exceeds NMOCD limit

Appendix A

Form C-141

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	
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 32.268060° Longitude -103.437368°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Limestone Compressor Station	Site Type Natural gas compressor station
Date Release Discovered 9/26/2020	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
B	35	23S	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) 420 MCF	Volume Recovered (Mcf) 0 MCF
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: During routine operations Lucid personnel noticed a tank was overpressured and had sprayed a mixture of natural gas and condensate to the area north of the tank battery.

State of New Mexico
Oil Conservation Division

Incident ID	
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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

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

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

Immediately following discovery of the overspray area construction services were deployed to scrape impacted material from the roadway and road ditch. A MicroBlaze treatment was applied to the area immediately around the tank battery and another treatment applied to the vegetation north of the lease road.

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: Micahel Gant Title: Environmental Coordinator

Signature: MGant Date: 11/9/2020

email: MGant@lucid-energy.com Telephone: 3143307876

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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?	_____ (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.

State of New Mexico
Oil Conservation Division

Incident ID	
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 Coordinator

Signature: MGant Date: 3/16/2021

email: MGant@lucid-energy.com Telephone: 3143307876

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☑ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☑ Extents of contamination must be fully delineated.

☑ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Michael Gant Title: Environmental Coordinator

Signature: MGant Date: 3/16/2021

email: MGant@lucid-energy.com Telephone: 3143307876

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM2032830684
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 Coordinator

Signature: MGant Date: 3/16/2021

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

OCD Only

Received by: Cristina Eads Date: 04/12/2021

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

Closure Approved by: Date: 06/30/2021

Printed Name: Cristina Eads Title: Environmental Specialist

Appendix B

Photographic Log

Appendix B: Photographic Log 09/11/20-11/17/2020
Limestone Compressor Station Overspray

Initial Overspray Looking West (9/26/20)

Overspray Area North of Road Looking East (9/28/20)

Initial Overspray Looking Northwest (9/26/20)

Tank Battery North of Road Looking South (9/28/20)

Appendix B: Photographic Log 09/26/20-10/15/2020
Pirate State BRY Line

Overspray Area South of Road Looking North (9/28/20)

Site Aerial (9/28/20)

Overspray Area South of Road Looking North (10/15/20)

Site Aerial (10/12/20)

Appendix C

Groundwater Data

Limestone Station nearby water wells

11/18/2020, 3:34:53 PM

GIS WATERS PODs

- Pending
- OSE District Boundary
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

USDA FSA, GeoEye, Maxar, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC

OSE POD Locations

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: CP 01708 **Subbasin:** CP **Cross Reference:** -

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Agent: ATKINS ENGR ASSOC INC

Contact: JESSICA ATKINS

Owner: LIMESTONE LIVESTOCK LLC

Contact: BILL ANGELL

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	624758	EXPL	2018-05-25	PMT	APR	CP 01708 POD1	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
CP 01708 POD1	NA		2	1		36	23S	34E	648263	3571205	

Appendix D

Laboratory Analytical Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
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October 06, 2020

Michael Gant

Lucid Energy Delaware
201 South 4th St.
Artesia, NM 88210
TEL: (575) 513-8988
FAX:

RE: Limestone Station OrderNo.: 2010003

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 10/1/2020 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 **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.1.S.3-6"
Project: Limestone Station
Collection Date: 9/30/2020 12:30:00 PM
Lab ID: 2010003-001 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 5:50:28 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	36	8.6		mg/Kg	1	10/2/2020 9:23:15 AM	55592
Motor Oil Range Organics (MRO)	120	43		mg/Kg	1	10/2/2020 9:23:15 AM	55592
Surr: DNOP	102	30.4-154		%Rec	1	10/2/2020 9:23:15 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/2/2020 11:15:56 PM	55589
Surr: BFB	94.8	75.3-105		%Rec	1	10/2/2020 11:15:56 PM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	10/2/2020 11:15:56 PM	55589
Toluene	ND	0.047		mg/Kg	1	10/2/2020 11:15:56 PM	55589
Ethylbenzene	ND	0.047		mg/Kg	1	10/2/2020 11:15:56 PM	55589
Xylenes, Total	ND	0.093		mg/Kg	1	10/2/2020 11:15:56 PM	55589
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	10/2/2020 11:15:56 PM	55589

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		

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.1.S.10-12"
Project: Limestone Station
Collection Date: 9/30/2020 12:35:00 PM
Lab ID: 2010003-002 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 6:02:48 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/2/2020 9:32:45 AM	55592
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/2/2020 9:32:45 AM	55592
Surr: DNOP	104	30.4-154		%Rec	1	10/2/2020 9:32:45 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/2/2020 11:39:27 PM	55589
Surr: BFB	88.1	75.3-105		%Rec	1	10/2/2020 11:39:27 PM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/2/2020 11:39:27 PM	55589
Toluene	ND	0.049		mg/Kg	1	10/2/2020 11:39:27 PM	55589
Ethylbenzene	ND	0.049		mg/Kg	1	10/2/2020 11:39:27 PM	55589
Xylenes, Total	ND	0.098		mg/Kg	1	10/2/2020 11:39:27 PM	55589
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	10/2/2020 11:39:27 PM	55589

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

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
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

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.2.N.3-6"
Project: Limestone Station
Collection Date: 9/30/2020 12:40:00 PM
Lab ID: 2010003-003 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 6:15:08 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/2/2020 9:42:16 AM	55592
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/2/2020 9:42:16 AM	55592
Surr: DNOP	98.0	30.4-154		%Rec	1	10/2/2020 9:42:16 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/3/2020 12:03:01 AM	55589
Surr: BFB	91.3	75.3-105		%Rec	1	10/3/2020 12:03:01 AM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	10/3/2020 12:03:01 AM	55589
Toluene	ND	0.046		mg/Kg	1	10/3/2020 12:03:01 AM	55589
Ethylbenzene	ND	0.046		mg/Kg	1	10/3/2020 12:03:01 AM	55589
Xylenes, Total	ND	0.092		mg/Kg	1	10/3/2020 12:03:01 AM	55589
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/3/2020 12:03:01 AM	55589

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

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
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

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.2.N.10-12"
Project: Limestone Station
Collection Date: 9/30/2020 12:45:00 PM
Lab ID: 2010003-004 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 6:27:29 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	10/2/2020 9:51:47 AM	55592
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/2/2020 9:51:47 AM	55592
Surr: DNOP	102	30.4-154		%Rec	1	10/2/2020 9:51:47 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/3/2020 12:26:35 AM	55589
Surr: BFB	88.3	75.3-105		%Rec	1	10/3/2020 12:26:35 AM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	10/3/2020 12:26:35 AM	55589
Toluene	ND	0.047		mg/Kg	1	10/3/2020 12:26:35 AM	55589
Ethylbenzene	ND	0.047		mg/Kg	1	10/3/2020 12:26:35 AM	55589
Xylenes, Total	ND	0.094		mg/Kg	1	10/3/2020 12:26:35 AM	55589
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/3/2020 12:26:35 AM	55589

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		

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.3.E.3-6"
Project: Limestone Station
Collection Date: 9/30/2020 12:50:00 PM
Lab ID: 2010003-005 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 6:39:49 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/2/2020 10:01:19 AM	55592
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/2/2020 10:01:19 AM	55592
Surr: DNOP	67.5	30.4-154		%Rec	1	10/2/2020 10:01:19 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/3/2020 12:50:10 AM	55589
Surr: BFB	88.2	75.3-105		%Rec	1	10/3/2020 12:50:10 AM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/3/2020 12:50:10 AM	55589
Toluene	ND	0.048		mg/Kg	1	10/3/2020 12:50:10 AM	55589
Ethylbenzene	ND	0.048		mg/Kg	1	10/3/2020 12:50:10 AM	55589
Xylenes, Total	ND	0.097		mg/Kg	1	10/3/2020 12:50:10 AM	55589
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	10/3/2020 12:50:10 AM	55589

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

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.3.E.10-12"
Project: Limestone Station
Collection Date: 9/30/2020 12:55:00 PM
Lab ID: 2010003-006 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 6:52:10 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/2/2020 10:10:53 AM	55592
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/2/2020 10:10:53 AM	55592
Surr: DNOP	55.1	30.4-154		%Rec	1	10/2/2020 10:10:53 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/3/2020 1:13:42 AM	55589
Surr: BFB	87.9	75.3-105		%Rec	1	10/3/2020 1:13:42 AM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/3/2020 1:13:42 AM	55589
Toluene	ND	0.048		mg/Kg	1	10/3/2020 1:13:42 AM	55589
Ethylbenzene	ND	0.048		mg/Kg	1	10/3/2020 1:13:42 AM	55589
Xylenes, Total	ND	0.095		mg/Kg	1	10/3/2020 1:13:42 AM	55589
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	10/3/2020 1:13:42 AM	55589

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

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.4.W.3-6"
Project: Limestone Station
Collection Date: 9/30/2020 1:00:00 PM
Lab ID: 2010003-007 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 7:04:30 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	10/2/2020 10:20:27 AM	55592
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/2/2020 10:20:27 AM	55592
Surr: DNOP	51.6	30.4-154		%Rec	1	10/2/2020 10:20:27 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/3/2020 1:37:11 AM	55589
Surr: BFB	93.0	75.3-105		%Rec	1	10/3/2020 1:37:11 AM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/3/2020 1:37:11 AM	55589
Toluene	ND	0.048		mg/Kg	1	10/3/2020 1:37:11 AM	55589
Ethylbenzene	ND	0.048		mg/Kg	1	10/3/2020 1:37:11 AM	55589
Xylenes, Total	ND	0.097		mg/Kg	1	10/3/2020 1:37:11 AM	55589
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	10/3/2020 1:37:11 AM	55589

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		

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.4.W.10-12"
Project: Limestone Station
Collection Date: 9/30/2020 1:05:00 PM
Lab ID: 2010003-008 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 7:16:51 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/2/2020 10:30:02 AM	55592
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/2/2020 10:30:02 AM	55592
Surr: DNOP	62.8	30.4-154		%Rec	1	10/2/2020 10:30:02 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/3/2020 2:00:45 AM	55589
Surr: BFB	91.2	75.3-105		%Rec	1	10/3/2020 2:00:45 AM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/3/2020 2:00:45 AM	55589
Toluene	ND	0.049		mg/Kg	1	10/3/2020 2:00:45 AM	55589
Ethylbenzene	ND	0.049		mg/Kg	1	10/3/2020 2:00:45 AM	55589
Xylenes, Total	ND	0.097		mg/Kg	1	10/3/2020 2:00:45 AM	55589
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/3/2020 2:00:45 AM	55589

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		

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.5.Center.3-6"
Project: Limestone Station
Collection Date: 9/30/2020 1:10:00 PM
Lab ID: 2010003-009 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 7:29:11 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/2/2020 10:39:39 AM	55592
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/2/2020 10:39:39 AM	55592
Surr: DNOP	57.6	30.4-154		%Rec	1	10/2/2020 10:39:39 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/3/2020 2:24:12 AM	55589
Surr: BFB	95.5	75.3-105		%Rec	1	10/3/2020 2:24:12 AM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	10/3/2020 2:24:12 AM	55589
Toluene	ND	0.046		mg/Kg	1	10/3/2020 2:24:12 AM	55589
Ethylbenzene	ND	0.046		mg/Kg	1	10/3/2020 2:24:12 AM	55589
Xylenes, Total	ND	0.092		mg/Kg	1	10/3/2020 2:24:12 AM	55589
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/3/2020 2:24:12 AM	55589

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

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
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

Analytical Report
Lab Order **2010003**
Date Reported: **10/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA.5.Center.10-12
Project: Limestone Station
Collection Date: 9/30/2020 1:15:00 PM
Lab ID: 2010003-010 **Matrix:** SOIL **Received Date:** 10/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/3/2020 7:41:32 PM	55628
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/2/2020 10:49:18 AM	55592
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/2/2020 10:49:18 AM	55592
Surr: DNOP	63.1	30.4-154		%Rec	1	10/2/2020 10:49:18 AM	55592
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/3/2020 2:47:39 AM	55589
Surr: BFB	89.2	75.3-105		%Rec	1	10/3/2020 2:47:39 AM	55589
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	10/3/2020 2:47:39 AM	55589
Toluene	ND	0.047		mg/Kg	1	10/3/2020 2:47:39 AM	55589
Ethylbenzene	ND	0.047		mg/Kg	1	10/3/2020 2:47:39 AM	55589
Xylenes, Total	ND	0.093		mg/Kg	1	10/3/2020 2:47:39 AM	55589
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/3/2020 2:47:39 AM	55589

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2010003**

14-Oct-20

Client: Lucid Energy Delaware

Project: Limestone Station

Sample ID: **MB-55628**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **55628**	RunNo: **72381**
Prep Date: **10/3/2020**	Analysis Date: **10/3/2020**	SeqNo: **2538760** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-55628**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **55628**	RunNo: **72381**
Prep Date: **10/3/2020**	Analysis Date: **10/3/2020**	SeqNo: **2538761** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.0	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
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#: **2010003**

14-Oct-20

Client: Lucid Energy Delaware

Project: Limestone Station

Sample ID: **LCS-55592** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **55592** RunNo: **72349**

Prep Date: **10/1/2020** Analysis Date: **10/2/2020** SeqNo: **2537631** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	70	130			
Surr: DNOP	4.9		5.000		97.3	30.4	154			

Sample ID: **MB-55592** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **55592** RunNo: **72349**

Prep Date: **10/1/2020** Analysis Date: **10/2/2020** SeqNo: **2537632** 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	10		10.00		102	30.4	154			

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
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#: **2010003**

14-Oct-20

Client: Lucid Energy Delaware

Project: Limestone Station

Sample ID: **lcs-55589**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **55589**	RunNo: **72336**
Prep Date: **10/1/2020**	Analysis Date: **10/2/2020**	SeqNo: **2538217** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.9	72.5	106			
Surr: BFB	980		1000		98.5	75.3	105			

Sample ID: **MB-55589**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **55589**	RunNo: **72336**
Prep Date: **10/1/2020**	Analysis Date: **10/2/2020**	SeqNo: **2538218** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.8	75.3	105			

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
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#: **2010003**

14-Oct-20

Client: Lucid Energy Delaware

Project: Limestone Station

Sample ID: **LCS-55589** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **55589** RunNo: **72336**

Prep Date: **10/1/2020** Analysis Date: **10/2/2020** SeqNo: **2538244** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID: **MB-55589** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **55589** RunNo: **72336**

Prep Date: **10/1/2020** Analysis Date: **10/2/2020** SeqNo: **2538245** 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		104	80	120			

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
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

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: 2010003 RcptNo: 1

Received By: **Juan Rojas** 10/1/2020 8:00:00 AM

Completed By: **Juan Rojas** 10/1/2020 8:21:43 AM

Reviewed By: SPA 10.1.20

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° 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: EM 10/1/20

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good				

Chain-of-Custody Record

Client: Lucid Energy

Mailing Address: on file

Phone #: 3143307876

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 2day

Project Name: Limestone Station

Project #:

Project Manager: Michael Gant

Sampler: MG

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.4-0.1=2.3 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2010003	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)
9/30/20	1230	S	HA-1-N-3-6"	4oz Soil	ICE	-001	X	X					X			
	1235		HA-1-N-10-12"			-002	X	X					X			
	1240		HA-2-S-3-6"			-003	X	X					X			
	1245		HA-2-S-10-12"			-004	X	X					X			
	1250		HA-3-~~W~~-3-6"			-005	X	X					X			
	1255		HA-3-~~E~~-10-12"			-006	X	X					X			
	1300		HA-4-W-3-6"			-007	X	X					X			
	1305		HA-4-W-10-12"			-008	X	X					X			
	1310		HA-5-Center-3-6"			-009	X	X					X			
	1315		HA-5-Center-10-12			-010	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9/30/20	1440				9/30/20	1440
9/30/20	1900			courier	10/1/20	8:00

Remarks:

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.

JR 10/1/20

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

November 06, 2020

Michael Gant

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

RE: Limestone OrderNo.: 2010C75

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 10/29/2020 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 **2010C75**
Date Reported: **11/6/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware
Client Sample ID: HA-6-C-S
Project: Limestone
Collection Date: 10/21/2020 11:30:00 AM
Lab ID: 2010C75-001 **Matrix:** SOIL **Received Date:** 10/29/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	11/2/2020 9:05:04 PM	56160
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **DJF**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/30/2020 11:00:02 PM	56112
Surr: BFB	101	70-130		%Rec	1	10/30/2020 11:00:02 PM	56112
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/29/2020 9:44:35 PM	56116
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/29/2020 9:44:35 PM	56116
Surr: DNOP	96.7	30.4-154		%Rec	1	10/29/2020 9:44:35 PM	56116
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **DJF**	
Benzene	ND	0.023		mg/Kg	1	10/30/2020 11:00:02 PM	56112
Toluene	ND	0.046		mg/Kg	1	10/30/2020 11:00:02 PM	56112
Ethylbenzene	ND	0.046		mg/Kg	1	10/30/2020 11:00:02 PM	56112
Xylenes, Total	ND	0.093		mg/Kg	1	10/30/2020 11:00:02 PM	56112
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	10/30/2020 11:00:02 PM	56112
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	10/30/2020 11:00:02 PM	56112
Surr: Dibromofluoromethane	109	70-130		%Rec	1	10/30/2020 11:00:02 PM	56112
Surr: Toluene-d8	106	70-130		%Rec	1	10/30/2020 11:00:02 PM	56112

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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2010C75**

06-Nov-20

Client: Lucid Energy Delaware

Project: Limestone

Sample ID: **MB-56160**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **56160**	RunNo: **73082**
Prep Date: **11/2/2020**	Analysis Date: **11/2/2020**	SeqNo: **2569572** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-56160**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **56160**	RunNo: **73082**
Prep Date: **11/2/2020**	Analysis Date: **11/2/2020**	SeqNo: **2569573** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.1	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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#: **2010C75**

06-Nov-20

Client: Lucid Energy Delaware

Project: Limestone

Sample ID: **MB-56116**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **56116**	RunNo: **73025**
Prep Date: **10/29/2020**	Analysis Date: **10/29/2020**	SeqNo: **2567193** 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		90.2	30.4	154			

Sample ID: **LCS-56116**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **56116**	RunNo: **73025**
Prep Date: **10/29/2020**	Analysis Date: **10/29/2020**	SeqNo: **2567194** 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	84.8	70	130			
Surr: DNOP	4.6		5.000		92.3	30.4	154			

Sample ID: **2010C70-005AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **56116**	RunNo: **73028**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2568474** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	1300	19	47.30	1564	-583	15	184			S
Surr: DNOP	4.7		4.730		99.4	30.4	154			

Sample ID: **2010C70-005AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **56116**	RunNo: **73028**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2568475** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	1600	20	48.92	1564	23.6	15	184	20.0	23.9	
Surr: DNOP	4.9		4.892		101	30.4	154	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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#: **2010C75**

06-Nov-20

Client: Lucid Energy Delaware

Project: Limestone

Sample ID: **mb-56112**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **56112**	RunNo: **73049**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2567865** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.42		0.5000		83.8	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.5	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: **lcs-56112**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **56112**	RunNo: **73049**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2567866** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.4	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.5	80	120			
Xylenes, Total	3.2	0.10	3.000	0	108	80	120			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		89.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.1	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.52		0.5000		105	70	130			

Sample ID: **2010c72-002ams**	SampType: **MS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **56112**	RunNo: **73049**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2567869** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9804	0	92.7	71.1	115			
Toluene	1.1	0.049	0.9804	0	108	79.6	132			
Ethylbenzene	1.1	0.049	0.9804	0	110	83.8	134			
Xylenes, Total	3.3	0.098	2.941	0	111	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.43		0.4902		87.8	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.4902		99.9	70	130			
Surr: Dibromofluoromethane	0.50		0.4902		102	70	130			
Surr: Toluene-d8	0.52		0.4902		105	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
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#: **2010C75**

06-Nov-20

Client: Lucid Energy Delaware

Project: Limestone

Sample ID: **2010c72-002amsd** SampType: **MSD4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **BatchQC** Batch ID: **56112** RunNo: **73049**

Prep Date: **10/29/2020** Analysis Date: **10/30/2020** SeqNo: **2567870** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9852	0	95.3	71.1	115	3.24	20	
Toluene	1.1	0.049	0.9852	0	110	79.6	132	1.92	20	
Ethylbenzene	1.1	0.049	0.9852	0	110	83.8	134	0.0955	20	
Xylenes, Total	3.3	0.099	2.956	0	111	82.4	132	0.835	20	
Surr: 1,2-Dichloroethane-d4	0.43		0.4926		87.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.51		0.4926		103	70	130	0	0	
Surr: Dibromofluoromethane	0.52		0.4926		106	70	130	0	0	
Surr: Toluene-d8	0.51		0.4926		105	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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#: **2010C75**

06-Nov-20

Client: Lucid Energy Delaware

Project: Limestone

Sample ID: **mb-56112**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **56112**	RunNo: **73049**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2567890** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	520		500.0		103	70	130			

Sample ID: **lcs-56112**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **56112**	RunNo: **73049**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2567891** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.6	70	130			
Surr: BFB	520		500.0		104	70	130			

Sample ID: **2010c72-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **56112**	RunNo: **73049**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2567893** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.88	0	84.8	49.2	122			
Surr: BFB	510		497.5		102	70	130			

Sample ID: **2010c72-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **56112**	RunNo: **73049**
Prep Date: **10/29/2020**	Analysis Date: **10/30/2020**	SeqNo: **2567894** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.90	0	90.0	49.2	122	2.04	20	
Surr: BFB	490		478.0		102	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative 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

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: **2010C75** RcptNo: **1**

Received By: **Emily Mocho** **10/29/2020 8:00:00 AM**

Completed By: **Emily Mocho** **10/29/2020 9:07:08 AM**

Reviewed By: DAD 10/29/20

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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 ☐	

10

# of preserved bottles checked for pH: 10/28 10/29/20

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			
2	1.5	Good	Yes			

Chain-of-Custody Record

Client: Lucid Energy

Mailing Address: on file

Phone #: 3143307876

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: 5 day
☒ Standard ☒ ~~Rush~~ 48hr

Project Name: Limestone

Project #:

Project Manager: Michael Gant

Sampler: MG

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 2.2-0.2=2.0 (°C) 1.7-0.2=1.5

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. 2010C75	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)
10/26	1130	S	HA·6·C·S	4oz Soil Jar	ICE	001	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/28	1116				10/28/20	1116
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			EM	courier	10/29/20	8:00

Remarks:

Seal intact EM 10/29/20

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 20880

CONDITIONS

Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210	OGRID: 372422
	Action Number: 20880
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
ceads	None	6/30/2021