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

May 9, 2022

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

RE: Closure Request
Seinfield 10-inch pipeline
Incident Number NAPP2201459944
Lea County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of Lucid Energy Delaware, LLC (Lucid) presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Seinfield 10-inch pipeline (Site) in Unit I, Section 33, Township 24 South, Range 35 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following the release of pipeline liquid from a Natural Gas line at the Site. Based on the excavation activities and soil sample laboratory analytical results, Lucid is submitting this Closure Request, and requesting no further action (NFA) for Incident Number nAPP2201459944.

RELEASE BACKGROUND

On January 06, 2022, corrosion on a 10-inch main line resulted in a pinhole leak leading to the volume release of 1,904 MCF of natural gas and 10 gallons (gal) of pipeline liquid onto the pipeline Right of Way (ROW). From the total release volume, 8 gals of pipeline liquid were recovered. Immediate notice was not provided to New Mexico Oil Conservation Division (NMOCD), until an accurate volume calculation of the loss could be provided. Lucid reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on January 14, 2022. The release was assigned Incident Number nAPP2201459944.

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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321031103211501, located approximately 0.8 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 98 feet bgs and a total depth of 112 bgs. The referenced well records are included

in Attachment 1. The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 3,067 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On February 10, 2022, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Two boreholes were advanced and collected within the release extent from a depth of 8 feet bgs to assess the lateral extent of impacted soil. Soil from the borehole soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Based on field screenings, clean lateral depth was determined to be at 8 ft bgs. Based on visual observations and, field screening activities, for the two borehole samples, excavation activities were warranted to remove impacted soil to a total depth of 8 ft bgs.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

On February 28 and March 1, 2022, WSP personnel returned to the Site to oversee additional excavation and completion of activities. Based on visual observations and, field screening activities, for the borehole soil samples, delineation and excavation were completed to remove impacted soil in the area surrounding the release extent. Excavation activities were performed using a track hoe. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 8-foot bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS06 were collected from the floor of the excavation, from a depth of 8-feet bgs. Due to the depth of the excavation, soil samples were taken for the sidewalls (SW) of the excavation. The excavation SW soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4. Photographic documentation was completed during the Site visits and a photographic log is included in Attachment 3.

Laboratory analytical results for excavation soil samples FS01 through FS06 and SW01-SW09 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

The excavation area measured approximately 1,104 square feet. A total of approximately 981 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land disposal in Carlsbad, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 06, 2022, release of natural gas pipeline liquid. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Lucid backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and Lucid believe these remedial actions are protective of human health, the environment, and groundwater. As such, Lucid respectfully requests no further action for Incident Number NAPP2201459944. A signed C141 Closure Request is included in Attachment 5.

If you have any questions or comments, please do not hesitate to contact Mr. Travis Casey at (575) 689-5949.

Sincerely,

WSP USA Inc.

pbenner

Payton Benner
Assistant Consultant, Geologist

Travis Casey
Senior Consultant, Environmental Scientist

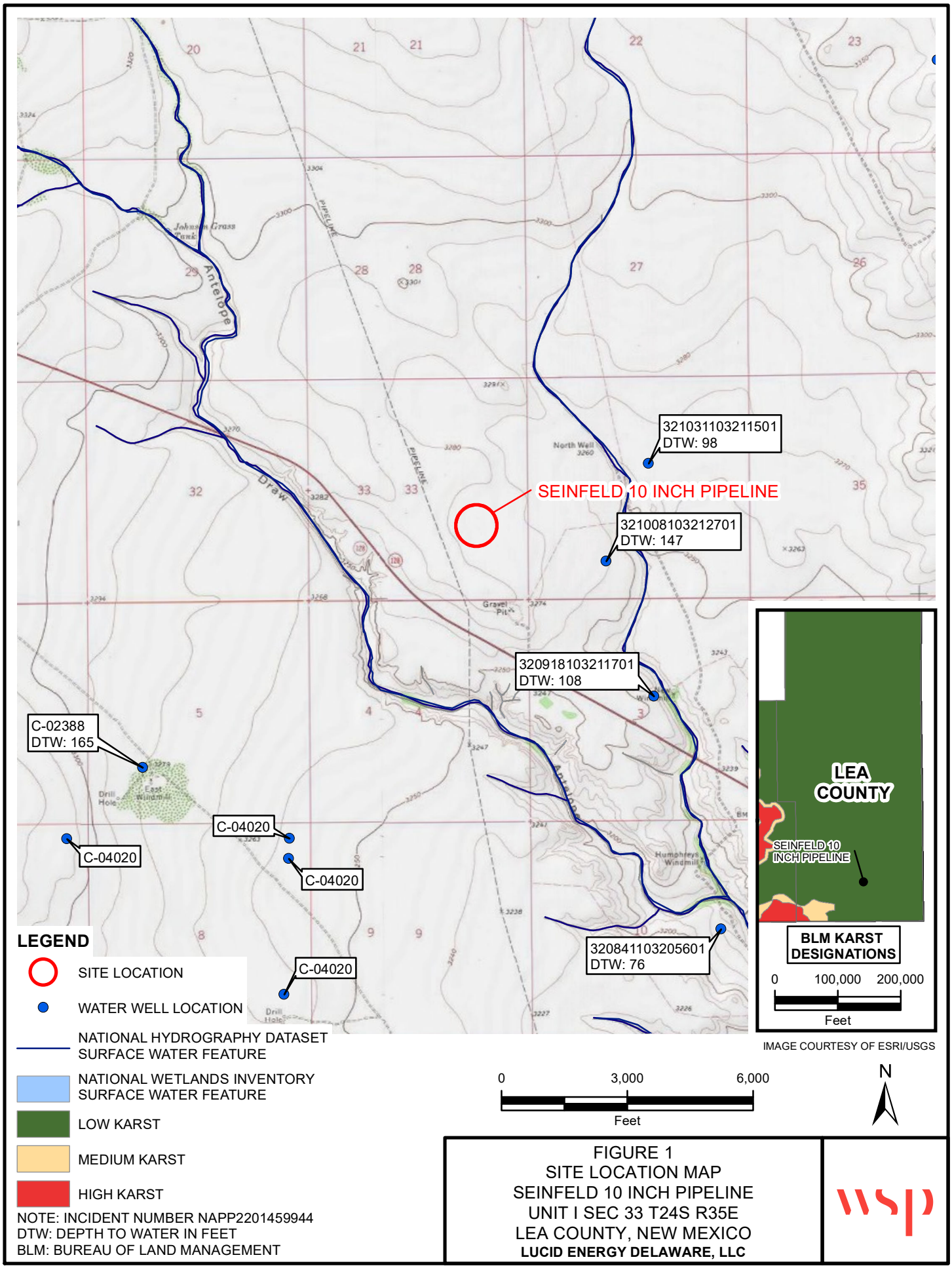
cc:

Bureau of Land Management
Michael Grant, Lucid Energy Delaware, LLC.

Attachments:

Figure 1	Site Location Map
Figure 2	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Lithologic/Sampling Logs
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports
Attachment 5	C141 Closure Request

FIGURES



NOTE: INCIDENT NUMBER NAPP2201459944
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
SEINFELD 10 INCH PIPELINE
UNIT I SEC 33 T24S R35E
LEA COUNTY, NEW MEXICO
LUCID ENERGY DELAWARE, LLC

LEGEND

- FLOOR SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE
- EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NAPP2201459944
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 2
EXCAVATION SOIL SAMPLE LOCATIONS
SEINFELD 10 INCH PIPELINE
UNIT I SEC 33 T24S R35E
LEA COUNTY, NEW MEXICO
LUCID ENERGY DELAWARE, LLC

wsp

TABLES

Table 1

Soil Analytical Results
Seinfeld 10 inch pipeline
Incident Number NAPP2201459944
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
Excavation Floor Samples										
FS01	02/28/2022	8	<0.12	<0.49	<9.6	<24	<48	<24	<48	<60
FS02	02/28/2022	8	<0.12	<50.0	280	<25	120	280	400	240
FS02A	05/02/2022	8	ND	ND	29	ND	ND	29	29	ND
FS03	02/28/2022	8	<0.12	<0.50	28	<25	<45	28	28	<60
FS04	02/28/2022	8	<0.12	<0.48	45	<24	<47	45	45	<60
FS05	03/01/2022	8	<0.12	<0.48	72	<24	<47	72	72	180
FS06	02/28/2022	8	<0.12	<0.50	<9.5	<25	<48	<25	<48	<60
Excavation Sidewall Samples										
SW01	02/28/2022	0 - 8	<0.12	<0.49	<9.9	<24	<49	<49	<49	<60
SW02	02/28/2022	0 - 8	<0.12	<0.49	<9.1	<25	<46	<46	<46	<60
SW03	02/28/2022	0 - 8	<0.025	<0.10	<9.7	<5.0	<48	<48	<48	<60
SW04	02/28/2022	0 - 8	<0.025	<0.10	<9.8	<5.0	<49	<49	<49	<60
SW05	03/01/2022	0 - 8	<0.025	<0.10	<9.6	<4.9	<48	<48	<48	<60
SW06	03/01/2022	0 - 8	<0.025	<0.10	<8.9	<4.9	<45	<45	<45	<60
SW07	03/01/2022	0 - 8	<0.12	<0.50	<9.9	<25	<49	<49	<49	<60
SW08	03/01/2022	0 - 8	<0.025	<0.10	<9.6	<4.9	<48	<48	<48	<60
SW09	03/01/2022	0 - 9	<0.12	<0.50	<9.9	<25	<49	<49	<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 - oil range organics

ND - Not Detected
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

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

USGS 321031103211501 24S.35E.34.14100

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

Latitude 32°10'31", Longitude 103°21'15" NAD27
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 112 feet
Land surface altitude: 3,264 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1965-10-21	1965-10-21	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

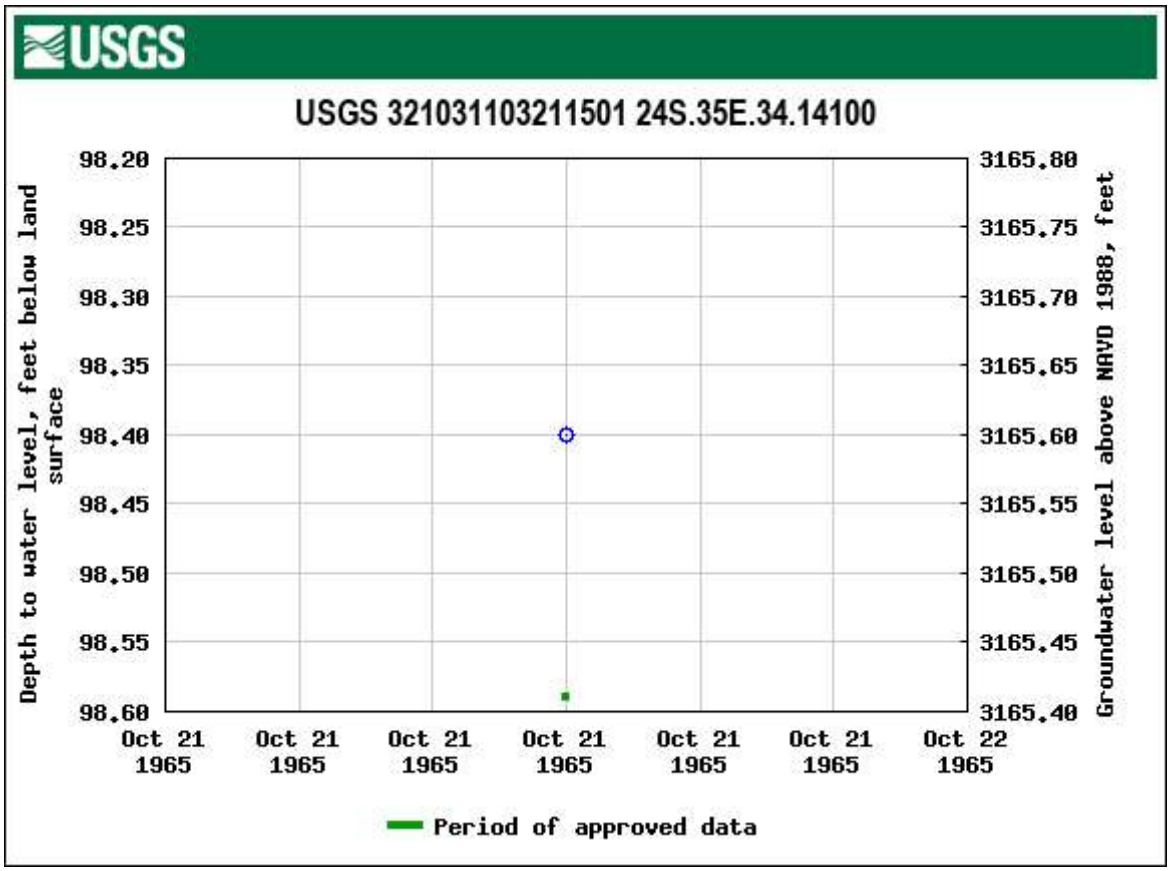
Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

Subscribe for system changes
News

Title: NWIS Site Information for USA: Site Inventory
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321031103211501

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2022-05-05 10:17:05 EDT
0.28 0.25 caww01


USGS
USGS 321031103211501 24S.35E.34.14100
Depth to water level, feet below land surface
98.20
98.25
98.30
98.35
98.40
98.45
98.50
98.55
98.60
Groundwater level above NAVD 1988, feet
3165.80
3165.75
3165.70
3165.65
3165.60
3165.55
3165.50
3165.45
3165.40
Oct 21 1965
Oct 21 1965
Oct 21 1965
Oct 21 1965
Oct 21 1965
Oct 21 1965
Oct 22 1965
Period of approved data

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 02388 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 0 **Subfile:** - **Header:** -

Total Diversion: 3 **Cause/Case:** -

Owner: QUAIL RANCH LLC

Contact: DYLAN VAN BRUNT

Owner: GENERAL COUNSEL

Contact: CHRISTOPHER BOEHLER

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	635459	COWNF	2018-11-28	CHG	PRC	C 02388	T	0	0	
	198233	DCL	1994-03-21	DCL	PRC	C 02388	T	0	3	

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
C 02388					3	05	25S	35E	651467	3558832*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0	3		STK		DCL	NO PLACE OF USE GIVEN

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		STK		GW	

5/5/22 8:22 AM WATER RIGHT SUMMARY

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	C 02388			3	05	25S	35E	651467	3558832*

Driller License:		**Driller Company:**			
Driller Name:	W.E. BAIRD				
Drill Start Date:		**Drill Finish Date:**	12/31/1920	**Plug Date:**	
Log File Date:		**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	5 GPM
Casing Size:	6.00	**Depth Well:**	180 feet	**Depth Water:**	165 feet

***UTM location was derived from PLSS - see Help**

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
LUCID ENERGY DELAWARE, LLC.	SEINFELD 10 INCH PIPELINE Lea County, New Mexico	NAPP2201459944

Photo No.	Date
1	February 28, 2022

North facing photo of excavation.

Photo No.	Date
2	February 28, 2022

South facing photo of excavation.

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS

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

March 15, 2022

Joseph S. Hernandez

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

RE: Seinfeld 10 inch Pipeline NAPP2201459944 OrderNo.: 2203197

Dear Joseph S. Hernandez:

Hall Environmental Analysis Laboratory received 15 sample(s) on 3/3/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW01@0-8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 10:45:00 AM
Lab ID: 2203197-001 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/8/2022 9:55:42 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2022 9:55:42 PM
Surr: DNOP	54.2	51.1-141		%Rec	1	3/8/2022 9:55:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/8/2022 12:22:14 AM
Surr: BFB	110	70-130		%Rec	5	3/8/2022 12:22:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.12		mg/Kg	5	3/8/2022 12:22:14 AM
Toluene	ND	0.24		mg/Kg	5	3/8/2022 12:22:14 AM
Ethylbenzene	ND	0.24		mg/Kg	5	3/8/2022 12:22:14 AM
Xylenes, Total	ND	0.49		mg/Kg	5	3/8/2022 12:22:14 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	3/8/2022 12:22:14 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	3/9/2022 8:17:45 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW02@0-8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 10:50:00 AM
Lab ID: 2203197-002 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/8/2022 10:06:20 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/8/2022 10:06:20 PM
Surr: DNOP	59.9	51.1-141		%Rec	1	3/8/2022 10:06:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/8/2022 12:45:31 AM
Surr: BFB	108	70-130		%Rec	5	3/8/2022 12:45:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.12		mg/Kg	5	3/8/2022 12:45:31 AM
Toluene	ND	0.25		mg/Kg	5	3/8/2022 12:45:31 AM
Ethylbenzene	ND	0.25		mg/Kg	5	3/8/2022 12:45:31 AM
Xylenes, Total	ND	0.49		mg/Kg	5	3/8/2022 12:45:31 AM
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	5	3/8/2022 12:45:31 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	3/9/2022 8:30:09 PM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW03@0-8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 10:55:00 AM
Lab ID: 2203197-003 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/8/2022 10:17:01 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 10:17:01 PM
Surr: DNOP	58.5	51.1-141		%Rec	1	3/8/2022 10:17:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/8/2022 1:08:47 AM
Surr: BFB	107	70-130		%Rec	1	3/8/2022 1:08:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	3/8/2022 1:08:47 AM
Toluene	ND	0.050		mg/Kg	1	3/8/2022 1:08:47 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/8/2022 1:08:47 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/8/2022 1:08:47 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/8/2022 1:08:47 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	59		mg/Kg	20	3/9/2022 8:42:34 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW04@0-8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 10:57:00 AM
Lab ID: 2203197-004 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/8/2022 10:27:42 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2022 10:27:42 PM
Surr: DNOP	58.5	51.1-141		%Rec	1	3/8/2022 10:27:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/8/2022 1:32:02 AM
Surr: BFB	107	70-130		%Rec	1	3/8/2022 1:32:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	3/8/2022 1:32:02 AM
Toluene	ND	0.050		mg/Kg	1	3/8/2022 1:32:02 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/8/2022 1:32:02 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/8/2022 1:32:02 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/8/2022 1:32:02 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	3/9/2022 8:54:58 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW05@0-8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 3/1/2022 9:10:00 AM
Lab ID: 2203197-005 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2022 10:38:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 10:38:23 PM
Surr: DNOP	58.0	51.1-141		%Rec	1	3/8/2022 10:38:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 1:55:22 AM
Surr: BFB	107	70-130		%Rec	1	3/8/2022 1:55:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	3/8/2022 1:55:22 AM
Toluene	ND	0.049		mg/Kg	1	3/8/2022 1:55:22 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 1:55:22 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2022 1:55:22 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/8/2022 1:55:22 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	3/10/2022 5:11:11 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW06@0-8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 3/1/2022 9:12:00 AM
Lab ID: 2203197-006 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/8/2022 10:49:07 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/8/2022 10:49:07 PM
Surr: DNOP	53.7	51.1-141		%Rec	1	3/8/2022 10:49:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 2:41:51 AM
Surr: BFB	110	70-130		%Rec	1	3/8/2022 2:41:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	3/8/2022 2:41:51 AM
Toluene	ND	0.049		mg/Kg	1	3/8/2022 2:41:51 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 2:41:51 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2022 2:41:51 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	3/8/2022 2:41:51 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	3/10/2022 6:38:02 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW07@0-8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 3/1/2022 9:15:00 AM
Lab ID: 2203197-007 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/8/2022 10:59:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2022 10:59:51 PM
Surr: DNOP	63.8	51.1-141		%Rec	1	3/8/2022 10:59:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/8/2022 3:05:04 AM
Surr: BFB	106	70-130		%Rec	5	3/8/2022 3:05:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.12		mg/Kg	5	3/8/2022 3:05:04 AM
Toluene	ND	0.25		mg/Kg	5	3/8/2022 3:05:04 AM
Ethylbenzene	ND	0.25		mg/Kg	5	3/8/2022 3:05:04 AM
Xylenes, Total	ND	0.50		mg/Kg	5	3/8/2022 3:05:04 AM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	5	3/8/2022 3:05:04 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	3/10/2022 6:50:26 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW08@0-8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 3/1/2022 9:17:00 AM
Lab ID: 2203197-008 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2022 11:10:43 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 11:10:43 PM
Surr: DNOP	58.0	51.1-141		%Rec	1	3/8/2022 11:10:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 3:28:18 AM
Surr: BFB	104	70-130		%Rec	1	3/8/2022 3:28:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	3/8/2022 3:28:18 AM
Toluene	ND	0.049		mg/Kg	1	3/8/2022 3:28:18 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 3:28:18 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/8/2022 3:28:18 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	3/8/2022 3:28:18 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	3/10/2022 7:02:50 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: SW09@0-9'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 3/1/2022 9:20:00 AM
Lab ID: 2203197-009 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/8/2022 11:21:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2022 11:21:37 PM
Surr: DNOP	60.1	51.1-141		%Rec	1	3/8/2022 11:21:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/8/2022 3:51:31 AM
Surr: BFB	105	70-130		%Rec	5	3/8/2022 3:51:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.12		mg/Kg	5	3/8/2022 3:51:31 AM
Toluene	ND	0.25		mg/Kg	5	3/8/2022 3:51:31 AM
Ethylbenzene	ND	0.25		mg/Kg	5	3/8/2022 3:51:31 AM
Xylenes, Total	ND	0.50		mg/Kg	5	3/8/2022 3:51:31 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	5	3/8/2022 3:51:31 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/10/2022 2:26:12 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: FS01@8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 10:25:00 AM
Lab ID: 2203197-010 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2022 11:32:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 11:32:30 PM
Surr: DNOP	66.0	51.1-141		%Rec	1	3/8/2022 11:32:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/8/2022 4:14:42 AM
Surr: BFB	107	70-130		%Rec	5	3/8/2022 4:14:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.12		mg/Kg	5	3/8/2022 4:14:42 AM
Toluene	ND	0.24		mg/Kg	5	3/8/2022 4:14:42 AM
Ethylbenzene	ND	0.24		mg/Kg	5	3/8/2022 4:14:42 AM
Xylenes, Total	ND	0.49		mg/Kg	5	3/8/2022 4:14:42 AM
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	5	3/8/2022 4:14:42 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/10/2022 3:27:55 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: FS02@8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 10:34:00 AM
Lab ID: 2203197-011 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	280	9.5		mg/Kg	1	3/8/2022 11:43:19 PM
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	3/8/2022 11:43:19 PM
Surr: DNOP	64.6	51.1-141		%Rec	1	3/8/2022 11:43:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/8/2022 4:37:53 AM
Surr: BFB	107	70-130		%Rec	5	3/8/2022 4:37:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.12		mg/Kg	5	3/8/2022 4:37:53 AM
Toluene	ND	0.25		mg/Kg	5	3/8/2022 4:37:53 AM
Ethylbenzene	ND	0.25		mg/Kg	5	3/8/2022 4:37:53 AM
Xylenes, Total	ND	0.50		mg/Kg	5	3/8/2022 4:37:53 AM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	5	3/8/2022 4:37:53 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	240	59		mg/Kg	20	3/10/2022 3:40:15 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: FS03@8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 10:38:00 AM
Lab ID: 2203197-012 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	28	9.0		mg/Kg	1	3/7/2022 3:01:07 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/7/2022 3:01:07 PM
Surr: DNOP	103	51.1-141		%Rec	1	3/7/2022 3:01:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/7/2022 11:48:00 AM
Surr: BFB	107	70-130		%Rec	5	3/7/2022 11:48:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.12		mg/Kg	5	3/7/2022 11:48:00 AM
Toluene	ND	0.25		mg/Kg	5	3/7/2022 11:48:00 AM
Ethylbenzene	ND	0.25		mg/Kg	5	3/7/2022 11:48:00 AM
Xylenes, Total	ND	0.50		mg/Kg	5	3/7/2022 11:48:00 AM
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	5	3/7/2022 11:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/10/2022 3:52:36 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: FS04@8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 12:33:00 PM
Lab ID: 2203197-013 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	45	9.3		mg/Kg	1	3/7/2022 3:11:41 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/7/2022 3:11:41 PM
Surr: DNOP	93.3	51.1-141		%Rec	1	3/7/2022 3:11:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/7/2022 12:08:00 PM
Surr: BFB	109	70-130		%Rec	5	3/7/2022 12:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.12		mg/Kg	5	3/7/2022 12:08:00 PM
Toluene	ND	0.24		mg/Kg	5	3/7/2022 12:08:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	3/7/2022 12:08:00 PM
Xylenes, Total	ND	0.48		mg/Kg	5	3/7/2022 12:08:00 PM
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	5	3/7/2022 12:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/10/2022 4:04:57 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: FS05@8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 3/1/2022 9:55:00 AM
Lab ID: 2203197-014 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	72	9.4		mg/Kg	1	3/7/2022 3:22:17 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/7/2022 3:22:17 PM
Surr: DNOP	120	51.1-141		%Rec	1	3/7/2022 3:22:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	3/7/2022 12:28:00 PM
Surr: BFB	109	70-130		%Rec	5	3/7/2022 12:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.12		mg/Kg	5	3/7/2022 12:28:00 PM
Toluene	ND	0.24		mg/Kg	5	3/7/2022 12:28:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	3/7/2022 12:28:00 PM
Xylenes, Total	ND	0.48		mg/Kg	5	3/7/2022 12:28:00 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	5	3/7/2022 12:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	180	60		mg/Kg	20	3/10/2022 4:17:18 AM

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

Qualifiers:

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

Analytical Report
Lab Order **2203197**
Date Reported: **3/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: FS06@8'
Project: Seinfeld 10 inch Pipeline NAPP2201459
Collection Date: 2/28/2022 12:50:00 PM
Lab ID: 2203197-015 **Matrix:** SOIL
Received Date: 3/3/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/7/2022 3:32:53 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/7/2022 3:32:53 PM
Surr: DNOP	102	51.1-141		%Rec	1	3/7/2022 3:32:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/7/2022 12:48:00 PM
Surr: BFB	105	70-130		%Rec	5	3/7/2022 12:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.12		mg/Kg	5	3/7/2022 12:48:00 PM
Toluene	ND	0.25		mg/Kg	5	3/7/2022 12:48:00 PM
Ethylbenzene	ND	0.25		mg/Kg	5	3/7/2022 12:48:00 PM
Xylenes, Total	ND	0.50		mg/Kg	5	3/7/2022 12:48:00 PM
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	5	3/7/2022 12:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	3/10/2022 4:29:38 AM

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203197**

15-Mar-22

Client: Lucid Energy

Project: Seinfeld 10 inch Pipeline NAPP2201459944

Sample ID: **MB-66065**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66065**	RunNo: **86379**							
Prep Date: **3/9/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046504**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66065**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66065**	RunNo: **86379**							
Prep Date: **3/9/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046505**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Sample ID: **MB-66071**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66071**	RunNo: **86379**							
Prep Date: **3/9/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046536**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66071**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66071**	RunNo: **86379**							
Prep Date: **3/9/2022**	Analysis Date: **3/9/2022**	SeqNo: **3046537**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Sample ID: **MB-66072**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **66072**	RunNo: **86381**							
Prep Date: **3/9/2022**	Analysis Date: **3/10/2022**	SeqNo: **3046822**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-66072**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **66072**	RunNo: **86381**							
Prep Date: **3/9/2022**	Analysis Date: **3/10/2022**	SeqNo: **3046823**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203197**

15-Mar-22

Client: Lucid Energy

Project: Seinfeld 10 inch Pipeline NAPP2201459944

Sample ID: **LCS-65968**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **65968**	RunNo: **86279**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042147** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.4	68.9	135			
Surr: DNOP	3.8		5.000		76.2	51.1	141			

Sample ID: **MB-65968**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **65968**	RunNo: **86279**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042149** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: **2203197-012AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **FS03@8'**	Batch ID: **65968**	RunNo: **86279**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3043446** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	72	9.1	45.29	28.01	96.4	36.1	154			
Surr: DNOP	4.5		4.529		98.4	51.1	141			

Sample ID: **2203197-012AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **FS03@8'**	Batch ID: **65968**	RunNo: **86279**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3043447** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	100	8.9	44.56	28.01	164	36.1	154	33.9	33.9	S
Surr: DNOP	5.5		4.456		123	51.1	141	0	0	

Sample ID: **LCS-65997**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **65997**	RunNo: **86343**
Prep Date: **3/7/2022**	Analysis Date: **3/8/2022**	SeqNo: **3045215** 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	88.2	68.9	135			
Surr: DNOP	4.6		5.000		92.2	51.1	141			

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	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203197**

15-Mar-22

Client: Lucid Energy

Project: Seinfeld 10 inch Pipeline NAPP2201459944

Sample ID: **MB-65997**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **65997**	RunNo: **86343**
Prep Date: **3/7/2022**	Analysis Date: **3/8/2022**	SeqNo: **3045221** 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		100	51.1	141			

Sample ID: **MB-66066**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **66066**	RunNo: **86377**
Prep Date: **3/9/2022**	Analysis Date: **3/10/2022**	SeqNo: **3046493** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.7		10.00		97.1	51.1	141			

Sample ID: **LCS-66066**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **66066**	RunNo: **86377**
Prep Date: **3/9/2022**	Analysis Date: **3/10/2022**	SeqNo: **3046494** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.9	51.1	141			

Sample ID: **2203261-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **65997**	RunNo: **86377**
Prep Date: **3/7/2022**	Analysis Date: **3/10/2022**	SeqNo: **3046589** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	9.5	47.57	16.85	39.2	36.1	154			
Surr: DNOP	3.9		4.757		81.5	51.1	141			

Sample ID: **2203261-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **65997**	RunNo: **86377**
Prep Date: **3/7/2022**	Analysis Date: **3/10/2022**	SeqNo: **3046590** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	9.5	47.26	16.85	37.6	36.1	154	2.49	33.9	
Surr: DNOP	3.8		4.726		80.4	51.1	141	0	0	

Sample ID: **2203356-008AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **66066**	RunNo: **86377**
Prep Date: **3/9/2022**	Analysis Date: **3/10/2022**	SeqNo: **3046591** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		4.448		92.5	51.1	141			

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	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203197**
15-Mar-22

Client: Lucid Energy
Project: Seinfeld 10 inch Pipeline NAPP2201459944

Sample ID: **2203356-008AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BatchQC** Batch ID: **66066** RunNo: **86377**
Prep Date: **3/9/2022** Analysis Date: **3/10/2022** SeqNo: **3046592** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		4.682		89.7	51.1	141	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203197**

15-Mar-22

Client: Lucid Energy

Project: Seinfeld 10 inch Pipeline NAPP2201459944

Sample ID: **mb-65945**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65945**	RunNo: **86283**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042386** 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	1100		1000		115	70	130			

Sample ID: **lcs-65945**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **65945**	RunNo: **86283**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042388** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	1300		1000		126	70	130			

Sample ID: **2203193-055ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **65945**	RunNo: **86283**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042390** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.83	0	97.1	70	130			
Surr: BFB	1300		993.0		129	70	130			

Sample ID: **2203193-055amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **65945**	RunNo: **86283**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.25	0	87.5	70	130	12.8	20	
Surr: BFB	1200		969.9		124	70	130	0	0	

Sample ID: **lcs-65952**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042759** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: **mb-65952**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042760** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2203197**
15-Mar-22

Client: Lucid Energy
Project: Seinfeld 10 inch Pipeline NAPP2201459944

Sample ID: **mb-65952**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042760** 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	1100		1000		106	70	130			

Sample ID: **2203198-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042767** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	24	24.18	0	107	70	130			
Surr: BFB	5200		4836		108	70	130			

Sample ID: **2203198-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042768** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	19	24.11	0	98.2	70	130	9.24	20	
Surr: BFB	5100		4822		107	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203197**

15-Mar-22

Client: Lucid Energy

Project: Seinfeld 10 inch Pipeline NAPP2201459944

Sample ID: **mb-65945**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65945**	RunNo: **86283**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042428** 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	1.1		1.000		106	70	130			

Sample ID: **LCS-65945**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65945**	RunNo: **86283**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042429** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.2	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: **2203193-056ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **65945**	RunNo: **86283**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042432** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	0.9852	0	83.7	68.8	120			
Toluene	0.88	0.049	0.9852	0	89.2	73.6	124			
Ethylbenzene	0.91	0.049	0.9852	0	92.2	72.7	129			
Xylenes, Total	2.7	0.099	2.956	0	92.2	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9852		106	70	130			

Sample ID: **2203193-056amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **65945**	RunNo: **86283**
Prep Date: **3/3/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042433** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9950	0	84.0	68.8	120	1.35	20	
Toluene	0.89	0.050	0.9950	0	89.7	73.6	124	1.58	20	
Ethylbenzene	0.92	0.050	0.9950	0	92.0	72.7	129	0.805	20	
Xylenes, Total	2.8	0.10	2.985	0	92.2	75.7	126	1.05	20	
Surr: 4-Bromofluorobenzene	1.1		0.9950		106	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203197**

15-Mar-22

Client: Lucid Energy

Project: Seinfeld 10 inch Pipeline NAPP2201459944

Sample ID: **lcs-65952**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042805** 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	0.91	0.050	1.000	0	90.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.8	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	70	130			

Sample ID: **mb-65952**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042806** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	70	130			

Sample ID: **2203226-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042813** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9588	0	97.0	68.8	120			
Toluene	1.0	0.048	0.9588	0.09262	97.6	73.6	124			
Ethylbenzene	1.0	0.048	0.9588	0.03097	102	72.7	129			
Xylenes, Total	3.4	0.096	2.876	0.4292	102	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9588		96.1	70	130			

Sample ID: **2203226-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **65952**	RunNo: **86295**
Prep Date: **3/4/2022**	Analysis Date: **3/7/2022**	SeqNo: **3042814** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9615	0	86.7	68.8	120	10.9	20	
Toluene	0.89	0.048	0.9615	0.09262	82.7	73.6	124	14.6	20	
Ethylbenzene	0.89	0.048	0.9615	0.03097	88.9	72.7	129	13.2	20	
Xylenes, Total	2.8	0.096	2.885	0.4292	83.1	75.7	126	17.5	20	
Surr: 4-Bromofluorobenzene	0.88		0.9615		91.2	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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: 2203197 | RcptNo: 1

Received By: Sean Livingston 3/3/2022 8:10:00 AM

Completed By: Sean Livingston 3/3/2022 9:17:28 AM

Reviewed By: JR 3/3/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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: CM 3/3/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				
2	1.2	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 5 days

Project Name:
Seinfeld 10 inch pipeline (NAPP2201459944)

Project #:
31403665.022

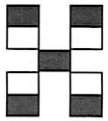
Project Manager:
Joseph S. Hernandez

Sampler: Payton Benner

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.4±0=1.4°C 1.2±0=1.2°C



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. 2203197	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)
2-28-22	10:45	S	SW01 @ 0-8'	2 Oz Glass jar	N/A	001	■	■					■			
2-28-22	10:50	S	SW02 @ 0-8'	2 Oz Glass jar	N/A	002	■	■					■			
2-28-22	10:55	S	SW03 @ 0-8'	2 Oz Glass jar	N/A	003	■	■					■			
2-28-22	12:57	S	SW04 @ 0-8'	2 Oz Glass jar	N/A	004	■	■					■			
3-1-22	9:10	S	SW05 @ 0-8'	2 Oz Glass jar	N/A	005	■	■					■			
3-1-22	9:12	S	SW06 @ 0-8'	2 Oz Glass jar	N/A	006	■	■					■			
3-1-22	9:15	S	SW07 @ 0-8'	2 Oz Glass jar	N/A	007	■	■					■			
3-1-22	9:17	S	SW08 @ 0-8'	2 Oz Glass jar	N/A	008	■	■					■			
3-1-22	9:20	S	SW09 @ 0-8"	2 Oz Glass jar	N/A	009	■	■					■			

Date	Time	Relinquished by	Received by	Via	Date	Time
3-2-22	8:43	pbenner			3/2/22	843
3/2/22	1900			courier	3/3/22	8:10

Remarks:
Direct bill to Lucid Energy
Prop # ~~195211500~~ 195225005 AFE: 200088
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.

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 5 DAY

Project Name:
Seinfeld 10 inch pipeline (NAPP2201459944)

Project #:
31403665.022

Project Manager:
Joseph S. Hernandez

Sampler: Payton Benner

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 1.4 +0=1.4°c

1.2 +0=1.2°c

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2-28-22	10:25	S	FS01 @ 8'	2 Oz Glass jar	N/A	010	■	■					■			
2-28-22	10:34	S	FS02 @ 8'	2 Oz Glass jar	N/A	011	■	■					■			
2-28-22	10:38	S	FS03 @ 8'	2 Oz Glass jar	N/A	012	■	■					■			
2-28-22	12:33	S	FS04 @ 8'	2 Oz Glass jar	N/A	013	■	■					■			
3-1-22	9:55	S	FS05 @ 8'	2 Oz Glass jar	N/A	014	■	■					■			
2-28-22	12:50	S	FS06 @ 8'	2 Oz Glass jar	N/A	015	■	■					■			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
3-2-22	8:43	jpbenner			3/2/22	843
3/2/22	1900		SEE COURIER		3/3/22	8:10

Remarks:
Direct bill to Lucid Energy
Prop # ~~195211500~~ 195225005 AFE: 300088
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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 06, 2022

Michael Gant

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

RE: Seinfield 10 inch OrderNo.: 2205050

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/3/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205050**
Date Reported: **5/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy
Client Sample ID: FS02A@8FT
Project: Seinfield 10 inch
Collection Date: 5/2/2022 10:35:00 AM
Lab ID: 2205050-001 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	29	10		mg/Kg	1	5/3/2022 11:59:27 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/3/2022 11:59:27 AM
Surr: DNOP	91.8	51.1-141		%Rec	1	5/3/2022 11:59:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	2.4		mg/Kg	1	5/3/2022 9:35:22 AM
Surr: BFB	108	37.7-212		%Rec	1	5/3/2022 9:35:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.012		mg/Kg	1	5/3/2022 9:35:22 AM
Toluene	ND	0.024		mg/Kg	1	5/3/2022 9:35:22 AM
Ethylbenzene	ND	0.024		mg/Kg	1	5/3/2022 9:35:22 AM
Xylenes, Total	ND	0.048		mg/Kg	1	5/3/2022 9:35:22 AM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	5/3/2022 9:35:22 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	61		mg/Kg	20	5/4/2022 2:08:33 AM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix
E	Estimated value
H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
PQL	Practical 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#: **2205050**

06-May-22

Client: Lucid Energy

Project: Seinfield 10 inch

Sample ID: **MB-67244**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67244**	RunNo: **87665**
Prep Date: **5/3/2022**	Analysis Date: **5/3/2022**	SeqNo: **3106432** Units: **mg/Kg**

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

Sample ID: **LCS-67244**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67244**	RunNo: **87665**
Prep Date: **5/3/2022**	Analysis Date: **5/3/2022**	SeqNo: **3106433** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205050**

06-May-22

Client: Lucid Energy

Project: Seinfield 10 inch

Sample ID: **LCS-67217**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67217**	RunNo: **87694**
Prep Date: **5/3/2022**	Analysis Date: **5/3/2022**	SeqNo: **3105649** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.8	68.9	135			
Surr: DNOP	3.8		5.000		75.1	51.1	141			

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	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205050**

06-May-22

Client: Lucid Energy

Project: Seinfield 10 inch

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G87675**	RunNo: **87675**
Prep Date:	Analysis Date: **5/3/2022**	SeqNo: **3105084** 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	1100		1000		112	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G87675**	RunNo: **87675**
Prep Date:	Analysis Date: **5/3/2022**	SeqNo: **3105085** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2200		1000		223	37.7	212			S

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	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205050**

06-May-22

Client: Lucid Energy

Project: Seinfield 10 inch

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B87675**	RunNo: **87675**
Prep Date:	Analysis Date: **5/3/2022**	SeqNo: **3105130** 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	1.1		1.000		105	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B87675**	RunNo: **87675**
Prep Date:	Analysis Date: **5/3/2022**	SeqNo: **3105131** 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	92.7	80	120			
Toluene	0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: **2205050-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **FS02A@8FT**	Batch ID: **B87675**	RunNo: **87675**
Prep Date:	Analysis Date: **5/4/2022**	SeqNo: **3105135** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.41	0.012	0.4847	0	85.2	68.8	120			
Toluene	0.44	0.024	0.4847	0.006786	89.7	73.6	124			
Ethylbenzene	0.45	0.024	0.4847	0.005817	90.9	72.7	129			
Xylenes, Total	1.3	0.048	1.454	0.01667	91.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.50		0.4847		102	70	130			

Sample ID: **2205050-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **FS02A@8FT**	Batch ID: **B87675**	RunNo: **87675**
Prep Date:	Analysis Date: **5/4/2022**	SeqNo: **3105136** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.40	0.012	0.4847	0	83.5	68.8	120	1.98	20	
Toluene	0.43	0.024	0.4847	0.006786	87.9	73.6	124	2.03	20	
Ethylbenzene	0.44	0.024	0.4847	0.005817	88.8	72.7	129	2.26	20	
Xylenes, Total	1.3	0.048	1.454	0.01667	89.3	75.7	126	1.79	20	
Surr: 4-Bromofluorobenzene	0.50		0.4847		104	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Lucid Energy | Work Order Number: 2205050 | RcptNo: 1

Received By: Juan Rojas 5/3/2022 7:00:00 AM

Completed By: Tracy Casarrubias 5/3/2022 7:33:07 AM

Reviewed By: NB 5/3/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° 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: JN 5/3/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

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: 24 HOUR RUSH

☐ Standard ☒ Rush ~~5 Days~~ ee

Project Name: Seinfield 10"

Project #: 31403665.022

Project Manager: Travis L Casey

Sampler: Payton Benner

On Ice: ~~☐ Yes~~ ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.6+0.1=1.7

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. 2205050	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)
5-2-22	10:35	S	FS02A @ 8 FT	JAR, 1	N/A	001	■	■					■			

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5-2-22	1:15	pbenner				
5/2/22	1900				5/2/22	1315
				courier	5/3/22	7:00

Remarks:
Direct bill to Lucid Energy
Prop # 195211500
Company # 860
Send confirmation and lab report to travis.casey@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.

ATTACHMENT 5: **C141 CLOSURE REQUEST FORM**

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	
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: 5/26/2022

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

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: 06/02/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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 111166

CONDITIONS

Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210	OGRID: 372422
	Action Number: 111166
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/2/2022