

CLOSURE REQUEST REPORT

Site Location:

Graham Lateral 8 Inch Pipeline Release Eddy County, New Mexico Incident Number: nAPP2215251908

September 1, 2022 Ensolum Project No. 03A2013008

Prepared for:

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1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Closure Request Report (CRR) to document remediation actions completed in accordance with New Mexico Oil and Conservation Division (NMOCD) guidelines and performed by Targa Resources (Targa) at the Graham Lateral 8 Inch Pipeline Release (hereinafter referred to as the "Site") in Unit C, Section 1, Township 22 South, Range 31 East, in Eddy County, New Mexico (Figure 1 in Appendix A). Based on delineation and excavation activities and results of the soil sampling events, Targa is submitting this CRR, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAPP2215251908. It should be noted, the original responsible party for the release was Lucid Energy Delaware, LLC (Lucid OGRID # 372422). The Site was acquired by Targa following the release. As a result, remedial actions were initiated and completed by Targa.

1.1 Site Description & Release Background

The Site is located within Eddy County, New Mexico (32.424280° N, 104.734041° W) and is associated with oil and gas exploration and production operations on New Mexico State Land (Figure 1 in Appendix A).

On May 25, 2022, external weathering caused a rupture along a poly pipeline, releasing approximately 5 barrels (bbls) of pipeline fluid and 810 thousand cubic feet (mcf) of natural gas into the atmosphere and onto the surrounding pasture soils. No residual fluids were recovered. The area of concern is depicted on **Figure 2 in Appendix A**. Targa reported the release to the NMOCD via email and with a Corrective Action Form C-141 (Form C-141) on June 1, 2022. The release was assigned Incident Number nAPP2215251908. Due to the release impacting areas off pad, a Right-of-Entry (ROE) Request was submitted to the State Land Office (SLO) on July 12, 2022, and subsequently approved on July 27, 2022.

1.2 Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from 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 New Mexico Office of the State Engineer (NMOSE) well C-04144, located 1.5 miles southeast of the Site. The well was reported as dry with a total depth of 105 feet bgs. The well record is provided in **Appendix B**.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 1,203 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on **Figure 1 in Appendix A**.

There does not appear to be any sensitive receptors related to the Site; however, the location of the nearest water well is not within 0.5-mile of the Site, which does not meet NMOCD's recommended guidance for estimating depth to groundwater. Additionally, the release occurred within a pipeline ROW and affected undeveloped pasture, which must be reclaimed. Therefore, the follow NMOCD Table 1 Closure Criteria apply:

Benzene: 10 milligrams per kilogram (mg/kg)



- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH): 100 mg/kg
- Chloride: 600 mg/kg

2.0 REMEDIATION ACTIONS

Ensolum conducted soil sampling activities at the Site to verify the presence or absence of soil impacts associated with the subject release and oversaw excavation efforts to remove impacted soil. Approximately 180 cubic yards of impacted soil were removed from the Site and disposed of under Targa-approved manifests.

2.1 Delineation Activities

On August 9, 2022 and August 10, 2022, delineation activities were conducted by Ensolum to characterize the subject release by verifying the presence or absence of impacted soil as compared to the most stringent Closure Criteria. Delineation samples were collected in potholes advanced with heavy equipment (samples designated PH). Delineation activites were directed by field sceening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delination soil sample location (PH01 through PH06): the sample with the observed highest field screening result (ranging from 0.5 foot bgs to 2 feet bgs) and the terminal depth (4 feet bgs) of the borehole. The release extent and delineation soil sample locations are shown in Figure 2 in Appendix A. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs (Appendix C). The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody procedures, to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

2.1 Excavation Activities

On August 10, 2022, excavation activities were conducted by Ensolum to remove impacted soil from areas with elevated VOCs and chloride field screening results, specifically the area associated with delineation soil sample location PH01.

Following removal of impacted soil, Ensolum collected three composite soil samples at a sampling frequency of 200 square feet from the sidewalls (designated as SW) and floor (designated as FS) of the excavation to confirm impacted soil above the Closure Criteria was successfully removed. 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 SW01 through SW03 were collected from the sidewalls of the excavation at depths ranging from the ground surface to approximately 1 foot bgs or 4 feet bgs. Composite soil samples FS01 through FS03 were collected from the floor of the excavation at depths ranging from 1 foot bgs or 4 feet bgs. The soil samples were collected, handled and analyzed as previously described. The approximate extent of excavation and confirmation soil sample locations are provided on Figure 3 in Appendix A. Photographic documentation of remediation activities is included in Appendix E.

1.1 Waste Handling



At the completion of remediation action activities, approximately 180 cubic yards of impacted soil were excavated and transported for disposal to a R360 Environmental Solutions, LLC and Lea Land, LLC in accordance with state and federal regulations.

2.0 SOIL SAMPLING RESULTS

Final laboratory analytical results for all delineation and confirmation soil samples were below the Closure Criteria for the Site. Laboratory analytical results are summarized in the **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

3.0 FINDINGS AND CONCLUSIONS

Based on the results documented in this CRR, the following findings and conclusions regarding the Site are presented:

- Based on laboratory analytical results associated with final confirmation soil samples, concentrations of constituents of concern (COCs) greater than the NMOCD applicable Closure Criteria were only identified in BH01 at 2 feet bgs, which was addressed via excavation and disposal; and
- Approximately 180 cubic yards of impacted soil were excavated and removed from the Site for disposal in accordance with state and federal regulations.

The excavation will be backfilled with clean, imported soil and restored to "as close to its original state" as possible.

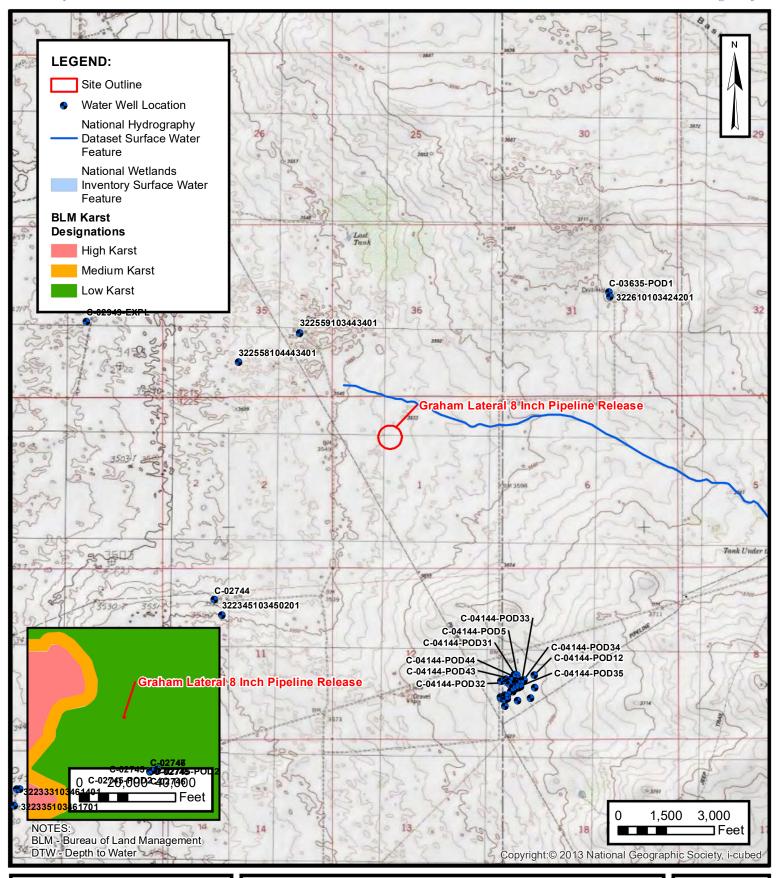
Based on the findings and conclusions of this report, NFA appears warranted at this time and the Site should be considered for Closure by the NMOCD. It should be noted that a 48-hour sampling notification was inadvertently not sent to NMOCD before the start of remediation activities. NMOCD was later notified in by an extension request that laboratory analytical results from confirmation sampling indicated remediation was complete. Targa respectively requests documented confirmation samples be accepted for Closure. The approved extension request is provided in Appendix G.





APPENDIX A

Figures



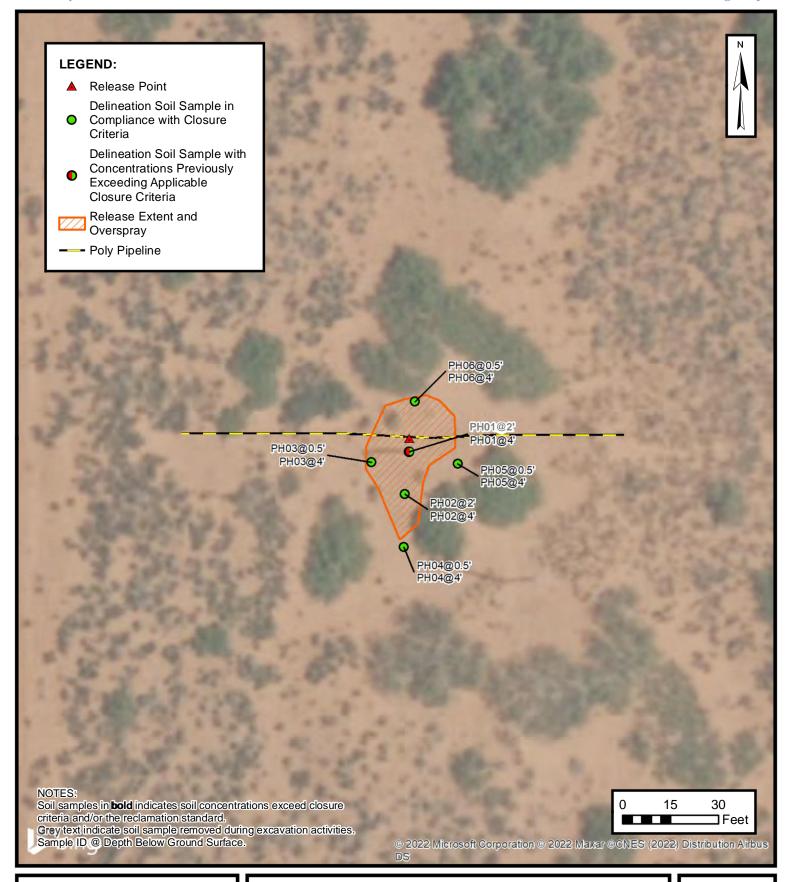


SITE LOCATION MAP

TARGA RESOURCES
GRAHAM LATERAL 8 INCH PIPELINE RELEASE

Incident Number nAPP2215251908 Unit C Sec 1 T22S R31E Eddy County, New Mexico **FIGURE**

1





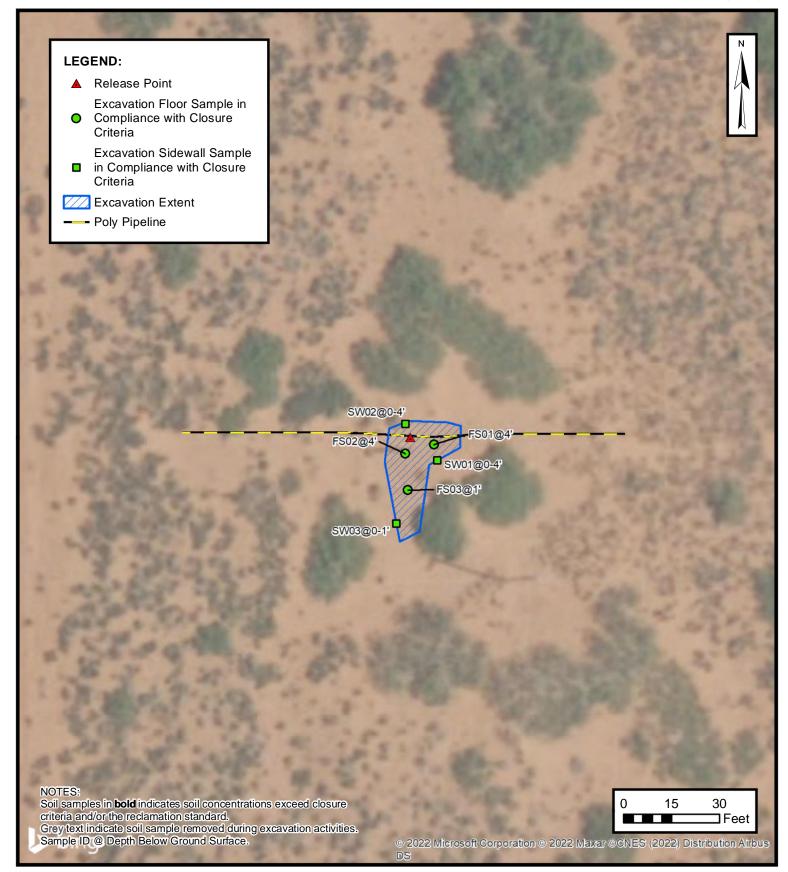
DELINEATION SOIL SAMPLE LOCATIONS

TARGA RESOURCES
GRAHAM LATERAL 8 INCH PIPELINE RELEASE
Incident Number nAPP2215251908
Unit C Sec 1 T22S R31E

Eddy County, New Mexico

FIGURE

2





EXCAVATION SOIL SAMPLE LOCATIONS

TARGA RESOURCES GRAHAM LATERAL 8 INCH PIPELINE RELEASE

Incident Number nAPP2215251908 Unit C Sec 1 T22S R31E Eddy County, New Mexico FIGURE

3



APPENDIX B

Referenced Well Logs



NC	OSE POD NO POD 12	. (WELL N	NO.)		WELL TAG ID NO. PMW-10			OSE FILE NO(S). C-4144				
ОСАТІС	WELL OWNI		(S)					PHONE (OPTI 432-848-914				100
VELL L	WELL OWN 5509 Cham		NG ADDRESS Drive		1.			CITY Midland		STATE Texas		ZIP 79706
1. GENERAL AND WELL LOCATION	WELL LOCATIO (FROM GF	S)	ATITUDE	32 -103	MINUTES 24 43	SECONDS 15.43	N W		REQUIRED: ONE TENT	ГН OF A SEC	OND	
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	LICENSE NO		NAME OF LICENSE	D DRILLER	DRILLER Shawn Cain				NAME OF WELL DRI	ILLING COM ascade Dril		
	DRILLING S 8/3/		DRILLING ENDED 8/10/21	DEPTH OF CO	OMPLETED WELL (FT NA	BO BO		LE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) NA			
N	COMPLETE	D WELL IS	S: ARTESIAN	✓ DRY HO	DRY HOLE SHALLOW (UNCONFINED)					'EL IN COMP NA	LETED WE	LL (FT)
ATIC	DRILLING F	LUID:	AIR									
)RM	DRILLING M	IETHOD:	ROTARY	П НАММЕ	R CABLE T	OOL	OTHE	R – SPECIFY:	F	Roto Sonic		
G INFO	DEPTH (feet bgl) FROM TO		DOKE HOLL		CONN			ASING NECTION	CASING INSIDE DIAM.	CASING		SLOT SIZE
2. DRILLING & CASING INFORMATION			(inches)		each casing string, esections of screen)		7	TYPE ling diameter)	(inches)	(incl	hes)	(inches)
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									and the left of the Chief	de la	and the same	-
FOF	R OSE INTER	RNAL US	SE		4.5			WR-2	20 WELL RECORD	& LOG (Ve	ersion 04/3	0/19)
	E NO.				POD NO),		TRN			D: ==	1.05.3
LOC	CATION							WELL TAG I	D NO.		PAGE	1 OF 2

	DEPTH (feet bgl)		COLOR AND TYPE OF MATERIAL ENCO	OUNTERED -	WATER	ESTIMATED				
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	6	10	4	Caliche		Y VN					
	10	15	5	Fine Clayey sand brown		Y VN					
	15	25	10	Fine sandstone brown		Y VN					
	25	65	40	Fine silty sandstone Brown		Y VN					
T	65	70	5	Medium Sandstone Gray		Y VN					
4. HYDROGEOLOGIC LOG OF WELL	70	85	15	Fine silty sandstone Brown		Y VN					
OF	85	105	20	Fine to Medium Sandstone		Y VN					
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PER											
TEST; RIG SUPER	OSE OT NOV 24 2021 PMI 38										
TES	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:										
S.	Jason Camp										
SIGNATURE	RECORD O	F THE AB	OVE DESCRIBED	AT TO THE BEST OF MY KNOWLEDGE AND B WELL. I ALSO CERTIFY THAT THE WELL TAG, I WITH THE PERMIT HOLDER WITHIN 30 DAYS AR	IF REQUIRED, HA	S BEEN INSTALLED AN	ND THAT THIS				
6. SIGN		St	-C	Shawn Cain		11/19/21					
		SIGNA	TURE OF DRILLE	R / PRINT SIGNEE NAME		DATE					
FO	R OSE INTER	NAL LISE			WR-20 WFI	LL RECORD & LOG (Ve	rsion 04/30/2019)				
	E NO.	THE USE		POD NO.	TRN NO.						
LO	CATION			W	VELL TAG ID NO.		PAGE 2 OF 2				
				, w	LLL INGIDIO.						



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01	Date: 08/10/2022
		E	N	S	O L	_ U	M	Site Name: Graham Lateral 8" Pipe	
					ngineeri			Incident Number: nAPP221525190	
					onsultan			Job Number: 03A2013008	<u> </u>
					SAMPLING			Logged By: LC	Method: Trackhoe
Coord		2.424271			, Liive			Hole Diameter: N/A	Total Depth: 4'
					ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respecti	
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Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
oist	Chloride (ppm)	Vapor (ppm)	tain	mp	Depth	(ft bgs)	CS/	Lithologic Des	criptions
ΣŬ	5		St	Saı	(ft bgs)	(0 /	USO		
					<u> </u>	I,	SP-SM	0-4', SILTY SAND, moist, red	dish brown, fine
					-	-		grained, poorly graded, tr no odor.	race roots, no stain,
					-	-			
М	638	0.1	N		1']	1'		1-4', roots absent.	
						-			
	1 271			DU01	2'	- 2'			
M	1,271	0.6	N	PH01		_ 2			
					1	_			
					-	- 3'			
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М	369	0.2	N	PH01	4']	4'			
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								Sample Name: PH02	Date: 08/10/2022
		E	N	S	O L	_ U	M	Site Name: Graham Lateral 8" Pipe	
					ingineeri			Incident Number: nAPP221525190	
100					onsultan			Job Number: 03A2013008	<u> </u>
					SAMPLING			Logged By: LC	Method: Trackhoe
Coordi		2.424235,			, Liive			Hole Diameter: N/A	Total Depth: 4'
					rith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respecti	·
			_		l to distilled		•		
				0			¥		
Moisture Content	Chloride (ppm)	or (r	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
oist ont	Chloride (ppm)	Vapor (ppm)	tain	mp	Depth	(ft bgs)	CS/	Lithologic Des	criptions
ΣŬ	5		St	Saı	(ft bgs)	, ,	USO		
					1	I,	SP-SM	0-4', SILTY SAND, moist, red	dish brown, fine
					-	-		grained, poorly graded, to no odor.	race roots, no stain,
						-			
М	168	0.3	N		1' _	_ 1'		1-4', roots absent.	
					-	-			
М	202	0.3	N	PH02	2'	_ 2'			
101	202	0.5	IN	PHUZ		- 2			
					_				
					-	- 3'			
					_	-			
					_	_			
М	<168	0.2	N	PH02	4']	4'			
					-	-	TD	Total Depth at 4 feet bgs.	
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								Sample Name: PH03	Date: 08/10/2022		
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					ingineeri			Incident Number: nAPP221525190			
					onsultan			Job Number: 03A2013008			
					SAMPLING						
Coord		2.424260			AIVIFLIIVO	100		Logged By: LC Hole Diameter: N/A	Total Depth: 4'		
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Moisture Content	Chloride (ppm)	ا ہے رے	Staining	Sample ID	Sample	Depth	JSCS/Rock Symbol				
Moisture Content	Chlorid (ppm)	Vapor (ppm)	ain	ldu	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic Des	scriptions		
ĭĕŏ	ر ا	> =	St	Sar	(ft bgs)	(10.083)	USC S				
\vdash						Ι	SP-SM	0-4', SILTY SAND, moist, red	dish brown, fine		
	-1.00		,	DUO	ا م	-		to medium grained, poor	ly graded, trace roots,		
M	<168	0.0	N	PH03	0.5'	-		no stain, no odor.			
М	<168	0.0	N		1' _	_ 1'		1-4', roots absent.			
					-	-					
						_					
М	<168	0.0	N		2' -	2'					
					_	_					
М	<168	0.0	,		3'	- 3'					
II IVI	<108	0.0	N		o -	_ 3					
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М	<168	0.0	N	PH03	4'	4'					
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								Carrada Narra y DUO4	D-+ 00/40/2022		
		F	N	S	O L		M	Sample Name: PH04	Date: 08/10/2022		
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					ngineeri onsultan			Incident Number: nAPP2215251908	8		
								Job Number: 03A2013008			
					SAMPLING	LOG		Logged By: LC Method: Trackhoe			
		2.424190				=		Hole Diameter: N/A	Total Depth: 4'		
II .			-		ith HACH Ch I to distilled		Strips and	PID for chloride and vapor, respecti	vely. Chloride test		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Desc			
М	<168	0.0	N	PH04	0.5' <u>-</u>	<u> </u>	SP-SM	0-4', SILTY SAND, moist, redo to medium grained, poorl no stain, no odor.	dish brown, fine y graded, trace roots,		
М	<168	0.0	N		1'	- 1'					
	- 200	5.0	••		-	-		1.5'-4', roots absent.			
М	<168	0.0	N		2' _	- _ 2' -					
М	<168	0.0	N		3' _	- - _ 3' -					
М	<168	0.0	N	PH04	4'	- - - 4'	TD	Total Depth at 4 feet bgs.			
					-	- - - -		Total Depth at 4 feet bgs.			
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								Sample Name: PH05	Date: 08/10/2022
		Е	N	S	O L	_ U	M	Site Name: Graham Lateral 8" Pipe	
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					onsultan			Job Number: 03A2013008	0
		(F)			SAMPLING				Method: Trackhoe
Coord					AIVIPLING	LUG		Logged By: LC Hole Diameter: N/A	Total Depth: 4'
		2.424261			ith HACH Ch	Jorida Tast (String and	PID for chloride and vapor, respecti	·
			_		l to distilled			rib for chioride and vapor, respecti	very. Chiloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
М	<168	0.0	N	PH05	0.5' -	L -	SP-SM	0-4', SILTY SAND, moist, redo to medium grained, poorl no stain, no odor.	dish brown, fine y graded, trace roots,
				. 1.05	_	<u> </u>		110 353111, 110 04011	
M	<168	0.3	N		1' _	1'			
						-		1.5'-4', roots absent.	
М	<168	0.3	N		2' -	- 2'			
'''	\100	0.5	14						
					_	_			
М	<168	0.0	N		3'	3'			
					_	-			
					-	_			
М	<168	0.1	N	PH05	4']	_ 4'		Tatal Davith at 4 fact has	
					:	-	TD	Total Depth at 4 feet bgs.	
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								Sample Name: PH06	Date: 08/10/2022
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					onsultan			Job Number: 03A2013008	0
		(F)			SAMPLING				Method: Trackhoe
Coord					AIVIPLING	LOG		Logged By: LC Hole Diameter: N/A	Total Depth: 4'
		2.424313			ith HACH Ch	Jorida Tast 9	String and	PID for chloride and vapor, respecti	· ·
			_		l to distilled		riips and	rib for chioride and vapor, respecti	very. Cilionae test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
М	<168	0.0	N	PH06	0.5' <u>-</u>	I -	SP-SM	0-4', SILTY SAND, moist, redo to medium grained, poorl no stain, no odor.	dish brown, fine y graded, trace roots,
М	<168	0.0	N		1'	1'			
I IVI	/T00	0.0	IN		+ -	_ 1			
					-	_		1.5'-4', roots absent.	
М	<168	0.3	N		2' _	_ 2'			
						-			
					_	_			
М	<168	0.4	N		3' _	3'			
					-	-			
	.4.60			DUIGG	41	- 41			
M	<168	0.4	N	PH06	4' _	4'	TD	Total Depth at 4 feet bgs.	
					_	-			
					-	-			
					_	-			
					_	_			
					_	=			
					_	-			
					-	-			
					_	-			
					2	=			
					_	-			
					_	_			
					-	-			
						-			
					_	-			
					_	- -			
					-	-			
					_	-			
						_			
					-	-			
						-			
					-	_			
						- 			



APPENDIX D

Photographic Log



Photographic Log

Targa Resources
Graham Lateral 8 Inch Pipeline Release
Incident Number: nAPP2215251908

Ensolum Project Number: 03A2013008





Photograph 1
Date: August 9, 2022

Description: Site Assessment Activities

Photograph 2

Date: August 9, 2022

Description: Delineation Activities





Photograph 3

Date: August 10, 2022

Description: Excavation Activities

Photograph 4

Date: August 10, 2022

Description: Excavation Activities



APPENDIX E

Tables



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Targa Resources - Graham Lateral 8 Inch Pipeline Release Eddy County, New Mexico Ensolum Project No. 03A2013008

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600
		,			Delineation Soil Sam	ple Results				
PH01	08/10/2022	2	<0.024	<0.213	<4.70	430	360	430	790	2,800
PH01	08/10/2022	4	<0.025	<0.224	<5.00	<13.0	<45.0	<13.0	<45.0	260
PH02	08/10/2022	2	<0.023	<0.211	<4.70	<15.0	<50.0	<15.0	<50.0	140
PH02	08/10/2022	4	<0.023	<0.208	<4.60	<13.0	<42.0	<13.0	<42.0	61.0
PH03	08/10/2022	0.5	<0.025	<0.225	<5.00	<15.0	<50.0	<15.0	<50.0	71.0
PH03	08/10/2022	4	<0.025	<0.222	<4.90	<14.0	<47.0	<14.0	<47.0	110
PH04	08/10/2022	0.5	<0.024	<0.220	<4.90	<14.0	<46.0	<14.0	<46.0	<60.0
PH04	08/10/2022	4	<0.025	<0.225	<5.00	<15.0	<50.0	<15.0	<50.0	300
PH05	08/10/2022	0.5	<0.024	<0.216	<4.80	<15.0	<49.0	<15.0	<49.0	<60.0
PH05	08/10/2022	4	<0.024	<0.220	<4.90	<14.0	<45.0	<14.0	<45.0	<61.0
PH06	08/10/2022	0.5	<0.024	<0.216	<4.80	<13.0	<44.0	<13.0	<44.0	<60.0
PH06	08/10/2022	4	<0.024	<0.216	<4.80	<13.0	<44.0	<13.0	<44.0	<60.0
					Excavation Soil Sam	ole Results				
FS01	08/10/2022	4	<0.024	<0.217	<4.80	<14.0	<48.0	<14.0	<48.0	240
FS02	08/10/2022	4	<0.025	<0.224	<5.00	<14.0	<46.0	<14.0	<46.0	<60.0
FS03	08/10/2022	1	<0.025	<0.221	<4.90	<15.0	<49.0	<15.0	<49.0	160
SW01	08/10/2022	0-4	<0.024	<0.216	<4.80	<14.0	<48.0	<14.0	<48.0	140
SW02	08/10/2022	0-4	<0.024	<0.213	<4.70	<14.0	<47.0	<14.0	<47.0	120
SW03	08/10/2022	0-1	<0.024	<0.215	<4.80	<15.0	<51.0	<15.0	<47.0	300

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text indicate soil sample removed during excavation activities

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation

standard where applicable.

Ensolum 1 of 1



APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

OrderNo.: 2208810

August 18, 2022

Ben Belill Lucid Energy 201 South 4th St. Artesia, NM 88210

TEL: (575) 513-8988

FAX:

RE: Graham Lateral 8 Inch Pipeline

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Toluene

Chloride

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2208810

Date Reported: 8/18/2022

8/16/2022 12:26:00 PM

8/16/2022 12:26:00 PM

8/16/2022 12:26:00 PM

8/16/2022 12:26:00 PM

8/16/2022 1:51:42 AM

Analyst: NAI

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH04@0.5'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 12:30:00 PM

 Lab ID:
 2208810-001
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/15/2022 3:54:54 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/15/2022 3:54:54 PM Surr: DNOP 98.1 21-129 %Rec 1 8/15/2022 3:54:54 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 12:26:00 PM 4.9 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 8/16/2022 12:26:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 12:26:00 PM 0.024 mg/Kg 1

ND

ND

ND

97.0

ND

0.049

0.049

0.098

70-130

60

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

1

20

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

Page 1 of 7

Analytical Report Lab Order 2208810

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH04@4'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 12:50:00 PM

 Lab ID:
 2208810-002
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/15/2022 4:32:02 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/15/2022 4:32:02 PM 21-129 Surr: DNOP 97.0 %Rec 1 8/15/2022 4:32:02 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 12:46:00 PM 5.0 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 8/16/2022 12:46:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 12:46:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 8/16/2022 12:46:00 PM Ethylbenzene ND 0.050 mg/Kg 1 8/16/2022 12:46:00 PM Xylenes, Total ND mg/Kg 8/16/2022 12:46:00 PM 0.10 1 Surr: 4-Bromofluorobenzene 99.5 70-130 %Rec 1 8/16/2022 12:46:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/16/2022 2:28:55 AM 300 60 20

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

Page 2 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208810**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69515 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69515 RunNo: 90298

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220931 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69515 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69515 RunNo: 90298

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220932 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 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

Page 3 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208810** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69506 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 69506 RunNo: 90276 Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3221135 Units: mq/Kq SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** %REC LowLimit HighLimit Qual Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.3 10.00 93.0 21 129 Sample ID: LCS-69506 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 69506 RunNo: 90276 Analysis Date: 8/15/2022 SeqNo: 3221136 Prep Date: 8/15/2022 Units: mq/Kq Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 51 15 50.00 0 102 64.4 127 Surr: DNOP 4.3 5.000 129

 Sample ID:
 2208810-002AMS
 SampType:
 MS
 TestCode:
 EPA Method 8015M/D:
 Diesel Range Organics

 Client ID:
 PH04@4'
 Batch ID:
 69506
 RunNo:
 90276

 Prep Date:
 8/15/2022
 Analysis Date:
 8/15/2022
 SeqNo:
 3221139
 Units:
 mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 50 14 48.26 104 36.1 154 Surr: DNOP 4.3 4.826 88.3 21 129

Sample ID: 2208810-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PH04@4' Batch ID: 69506 RunNo: 90276 Prep Date: Analysis Date: 8/15/2022 SeqNo: 3221140 8/15/2022 Units: mg/Kg SPK Ref Val LowLimit %RPD **RPDLimit** Analyte Result POI SPK value %REC HighLimit Qual Diesel Range Organics (DRO) 45 14 48.08 0 93.6 36.1 154 10.4 33.9 Surr: DNOP 4.808 85.0 21 0 0 4.1 129

Sample ID: MB-69521 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 69521 RunNo: 90276 Prep Date: 8/16/2022 Analysis Date: 8/16/2022 SeqNo: 3221703 Units: %Rec **PQL** SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Surr: DNOP 8.8 10.00 87.7 21 129

 Sample ID:
 LCS-69521
 SampType:
 LCS
 TestCode:
 EPA Method 8015M/D:
 Diesel Range Organics

 Client ID:
 LCSS
 Batch ID:
 69521
 RunNo:
 90276

 Prep Date:
 8/16/2022
 Analysis Date:
 8/16/2022
 SeqNo:
 3221704
 Units:
 %Rec

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

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208810** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: LCS-69521 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 69521 RunNo: 90276

Prep Date: 8/16/2022 Analysis Date: 8/16/2022 SegNo: 3221704 Units: %Rec

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

Surr: DNOP 3.6 5.000 72.9 21 129

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

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208810

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 69502 RunNo: 90302 Units: mg/Kg Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221186 **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137 Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: mb-69502 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 69502 RunNo: 90302 Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221188 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB

1000

1000

102

37.7

212

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208810** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

	1			
Sample ID: Ics-69502	SampType: LCS	TestCode: EPA Method	8021B: Volatiles	
Client ID: LCSS	Batch ID: 69502	RunNo: 90302		
Prep Date: 8/15/2022	Analysis Date: 8/16/2022	SeqNo: 3221187	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Benzene	0.90 0.025 1.000	0 90.1 80	120	
Toluene	0.92 0.050 1.000	0 92.5 80	120	
Ethylbenzene	0.94 0.050 1.000	0 93.8 80	120	
Xylenes, Total	2.8 0.10 3.000	0 94.1 80	120	
Surr: 4-Bromofluorobenzene	0.99 1.000	98.5 70	130	
Sample ID: mb-69502	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 69502	RunNo: 90302		
Prep Date: 8/15/2022	Analysis Date: 8/16/2022	SeqNo: 3221192	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	0.99 1.000	98.8 70	130	
Sample ID: mb-69518	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles	
Client ID: PBS	Batch ID: 69518	RunNo: 90310		
Prep Date: 8/15/2022	Analysis Date: 8/16/2022	SeqNo: 3222136	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: 4-Bromofluorobenzene	1.0 1.000	105 70	130	
Sample ID: LCS-69518	SampType: LCS	TestCode: EPA Method		
Client ID: LCSS	Batch ID: 69518	RunNo: 90310		
Prep Date: 8/15/2022	Analysis Date: 8/16/2022	SeqNo: 3222137	Units: %Rec	
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

Surr: 4-Bromofluorobenzene

- 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

1.1

1.000

B Analyte detected in the associated Method Blank

108

130

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

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Cli	ent Name:	Lucid Energ	Jy	Work	Order Numbe	er: 2208810		RcptNo:	1
Re	ceived By:	Juan Roja	e	8/12/202	22 7:20:00 AM	M	Guarian &		
	mpleted By:	Tracy Cas			22 8:46:21 AM				
	viewed By:	•		0/12/202	.2 0.40.21 AII	vi			
Ne	viewed by.	DAD 8	3/11/22						
Ch	ain of Cus	tody							
	Is Chain of C		ete?			Yes 🗸	No 🗌	Not Present	
2.	How was the	sample deliv	ered?			Courier			
Lo	og In								
	Was an attem	npt made to c	ool the samp	les?		Yes 🗸	No 🗌	NA 🗌	
	A/!!				0.000		No 🗆	🗆	
4. \	/Vere all samp	oles received	at a tempera	ture of >0° C t	o 6.0°C	Yes 🔽	NO L	NA 🗆	
5.	Sample(s) in	proper contai	ner(s)?			Yes 🗸	No 🗆		
6. 8	Sufficient sam	ple volume fo	or indicated te	est(s)?		Yes 🗸	No 🗆		
7. 4	Are samples (except VOA	and ONG) pro	perly preserve	d?	Yes 🗸	No 🗌		
8. V	Vas preserva	tive added to	bottles?			Yes	No 🗸	NA 🗆	
9. F	Received at le	east 1 vial with	n headspace	<1/4" for AQ V	OA?	Yes	No 🗆	NA 🗹	
10.	Were any san	nple containe	rs received b	roken?		Yes	No 🗹	# of preserved	
11 .		ada aa atab baat	W- I-I-I-O			v	No 🗆	bottles checked for pH:	
	Does paperwo Note discrepa)		Yes 🗸	No 🗆		>12 unless noted)
				n of Custody?		Yes 🗸	No 🗌	Adjusted?	
13. I	s it clear wha	t analyses we	ere requested	?		Yes 🗸	No 🗆		1 1 1 2 22
	Vere all holdi	•				Yes 🗸	No 🗆	Checked by:	18/12/12
							/		
	<i>cial Handl</i> Was client no			with this order?		Yes	No 🗆	NA 🗹	
10.			Screpancies	with this order:		163 🗆	NO [NA 🖭	
	By Who	Notified:	***************************************	-	Date: Via:	eMail	Phone Fax	☐ In Person	
	Regard		-		via.	Cividii	Thone Tax		
		nstructions:							
16.	Additional re	marks:							
17	Cooler Infor	mation							
.,.	Cooler No		Condition	Seal Intact	Seal No	Seal Date	Signed By		
	1	0.5	Good	Yes					

Chain-of-Custody Record				Turn-Around Time:				HALL ENVIRONMENTAL														
Client: Michael Gant - Lucid Energy Group - Delaware				Project Name: ANALYSIS LABORATOR www.hallenvironmental.com																		
Mailing Address: 3100 McKisson St. #800 Received by 900: 9/21/2022 2:44:22 Dallas, TX 75201				Graham Lateral 8" Pipeline				40	04.11									240	^			
								4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107														
Phone #:314-330-7876				03A2013008				Analysis Request														
email or Fax#:mgant@lucid-energy.com				Project Manager: Ben Belill				()				NI KOSE	SO ₄						T	T	T	
QA/QC Package:								MRC	s,s		SI		4, S(sen						
☐ Standard ☐ Level 4 (Full Validation)								1/0	PCB's		SIN		PO ₄ ,			tVA					4	
				Sampler: LC On Ice: □ Yes □ No				O / DR	s/8082	04.1)	or 8270SIMS		, NO ₂ ,		(A)	Preser						
□ EDD (Type)				# of Coolers:				(GR	ide	od 5	310	Metals	NO ₃ ,		8	E						
				Cooler Temp(including CF): U-J-U = 0-5				15D	estic	leth	y 83	3 Me	Br, 1	OA)	emi	olifo						
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310	RCRA 8	CI, F, E	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)						
8/10/22	1230	S	PH04 @ 0.5'	2 oz	N/A	001							150						\Box	\top		
8/10/22	1250	S	PH04 @ 4'	2 oz	N/A	007												\top	\top		\top	
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Date:	Time:	Relinquishe		Received by: Via: Date Time			Remarks:															
8/11/22 MO Liz Cheli				Chumin 8/11/22 1710					y Co							5225	010 A	AFE:	3000)91		
Pate:	1900	Relinquishe	ed by:	Received by: Via: Date Time OUNTER \$112/22 7/20												olum.	com	for re	porti	ng re	eceipt	s
	f necessary,	samples sub	mitted to Hall Environmental may be subc	ontracted to other a	1			bility.	Any su	ıb-cor	tracte	ed dat	a will	be cle	arly n	otated	on the	analyt	ical re	port.		_



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

OrderNo.: 2208811

August 18, 2022

Ben Belill Lucid Energy 201 South 4th St. Artesia, NM 88210

TEL: (575) 513-8988

FAX:

RE: Graham Lateral 8 Inch Pipeline

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 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

Indes

4901 Hawkins NE

Albuquerque, NM 87109

2208811-001

Lab ID:

Analytical Report Lab Order 2208811

Received Date: 8/12/2022 7:20:00 AM

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH05@0.5'

Matrix: SOIL

Project: Graham Lateral 8 Inch Pipeline **Collection Date:** 8/10/2022 1:00:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/15/2022 5:16:52 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/15/2022 5:16:52 PM Surr: DNOP 96.6 21-129 %Rec 1 8/15/2022 5:16:52 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 1:06:00 PM 4.8 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 8/16/2022 1:06:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 1:06:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/16/2022 1:06:00 PM Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 1:06:00 PM Xylenes, Total ND 0.096 mg/Kg 1 8/16/2022 1:06:00 PM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 8/16/2022 1:06:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/16/2022 3:06:09 AM ND 60 20

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

Page 1 of 6

CLIENT: Lucid Energy

Analytical Report

Lab Order 2208811

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: PH05@4'

Project: Graham Lateral 8 Inch Pipeline **Collection Date:** 8/10/2022 1:20:00 PM

Lab ID: 2208811-002 **Matrix:** SOIL **Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/15/2022 5:32:40 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/15/2022 5:32:40 PM
Surr: DNOP	99.0	21-129	%Rec	1	8/15/2022 5:32:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2022 1:46:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/16/2022 1:46:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	8/16/2022 1:46:00 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 1:46:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 1:46:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/16/2022 1:46:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/16/2022 1:46:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	61	mg/Kg	20	8/16/2022 3:18:33 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208811**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69515 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69515 RunNo: 90298

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220931 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69515 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69515 RunNo: 90298

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220932 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208811** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Project: Granam 1	Lateral 8 Inch	Търение							
Sample ID: MB-69506	SampType:	MBLK	Tes	tCode: EPA I	Method 8	8015M/D: Dies	el Range	Organics	
Client ID: PBS	Batch ID:	69506	F	RunNo: 9027 0	' 6				
Prep Date: 8/15/2022	Analysis Date:	8/15/2022	5	SeqNo: 3221	135	Units: mg/Kg			
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC Lo	.owLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15							
Motor Oil Range Organics (MRO)	ND	50							
Surr: DNOP	9.3	10.00		93.0	21	129			
Sample ID: LCS-69506	SampType:	LCS	Tes	tCode: EPA I	Method 8	8015M/D: Dies	el Range	Organics	
Client ID: LCSS	Batch ID:	69506	F	RunNo: 9027	' 6				
Prep Date: 8/15/2022	Analysis Date:	8/15/2022	S	SeqNo: 3221	136	Units: mg/Kg			
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC Lo	.owLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15 50.00	0	102	64.4	127			
Surr: DNOP	4.3	5.000		86.6	21	129			
Sample ID: MB-69521	SampType:	MBLK	Tes	tCode: EPA I	Method 8	8015M/D: Dies	el Range	Organics	
Client ID: PBS	Batch ID:	69521	F	RunNo: 9027 0	' 6				
Prep Date: 8/16/2022	Analysis Date:	8/16/2022	\$	SeqNo: 3221	703	Units: %Rec			
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC Lo	.owLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8	10.00		87.7	21	129			
Sample ID: LCS-69521	SampType:	LCS	Tes	tCode: EPA I	Method 8	8015M/D: Dies	el Range	Organics	
Client ID: LCSS	Batch ID:	69521	F	RunNo: 9027 0	' 6				
Prep Date: 8/16/2022	Analysis Date:	8/16/2022	\$	SeqNo: 3221	704	Units: %Rec			
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC Lo	.owLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.6	5.000		72.9	21	129			

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208811

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 69502 RunNo: 90302 Units: mg/Kg Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221186 **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137 Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: mb-69502 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 69502 RunNo: 90302 Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221188 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 5.0

Gasoline Range Organics (GRO) Surr: BFB

1000

1000

102

37.7

212

Qualifiers:

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208811** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502	SampT	ype: LC:	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batch	ID: 695	602	F	RunNo: 90	302				
Prep Date: 8/15/2022	Analysis D	ate: 8/ 1	16/2022	5	SeqNo: 32	221187	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.92	0.050	1.000	0	92.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.5	70	130			
Sample ID: mb-69502	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	ID: 695	602	F	RunNo: 90	302				
Prep Date: 8/15/2022	Analysis D	ate: 8/ 1	16/2022	5	SeqNo: 32	221192	Units: mg/K	g		
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	0.99		1.000		98.8	70	130			
Sample ID: mb-69518	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8021B: Volati	les		·
Client ID: PRS	Ratch	ID: 695	18	-	RunNo: 90	1310				

	ate: 8/16/2022	SeqNo	o: 3222136	Units: %Red	;		
I	ate: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3222136 Units: %Rec						
Analyte Result	PQL SPK value	SPK Ref Val %R	EC LowLimit	t HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene 1.0	1.000	1	05 70	130			

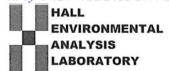
Sample ID: LCS-69518	SampType: Lo	CS	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batch ID: 69	518	F	RunNo: 90	0310				
Prep Date: 8/15/2022	Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3222137 Units: %Rec								
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Community of December 1	4.4	4 000	•	400	70	400		•	

Surr: 4-Bromofluorobenzene 1.1 1.000 108 70 130

Qualifiers:

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

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

CI	ient Name:	Lucid Er	nergy	Work Ord	er Number:	2208	3811		RcptNo	: 1
								Guaran g		
Re	ceived By:	Juan R	ojas	8/12/2022 7	:20:00 AM			Jun 19		
Co	mpleted By:	Tracy (Casarrubias	8/12/2022 8	:52:20 AM					
Re	viewed By:	DAD	8/12/22							
Ch	ain of Cus	tody								
	Is Chain of Co		mplete?			Yes	V	No 🗌	Not Present	
2.	How was the	sample d	elivered?			Cour	rier			
Lo	og In									
		pt made	to cool the samp	les?		Yes	v	No 🗆	NA 🗆	
4. \	Nere all samp	oles recei	ved at a tempera	ture of >0° C to 6.	0°C	Yes	✓	No 🗆	NA 🗆	
5.	Sample(s) in	proper co	ntainer(s)?			Yes	v	No 🗆		
6. \$	Sufficient sam	ple volum	ne for indicated te	est(s)?		Yes	V	No 🗌		
7.	Are samples (except V0	OA and ONG) pro	perly preserved?		Yes	✓	No 🗌		
8. \	Nas preserva	tive adde	d to bottles?			Yes		No 🔽	NA 🗆	
9. F	Received at le	ast 1 vial	with headspace	<1/4" for AQ VOA	?	Yes		No 🗆	NA 🗸	
10.	Were any san	nple conta	ainers received b	roken?		Yes		No 🗸	# of preserved	
11.1	Does paperwo	ork match	bottle labels?			Yes	V	No 🗆	bottles checked for pH:	
			chain of custody)		100			(<2 0	r >12 unless noted)
12.4	Are matrices of	correctly id	dentified on Chair	n of Custody?		Yes	✓	No 🗆	Adjusted?	
13. I	s it clear what	t analyses	were requested	?		Yes	✓	No 🗆		54.2/2
		-	able to be met? or authorization.)			Yes	✓	No 🗆	Checked by:	JU8116155
Sne	cial Handl	ina (if s	pplicable)							
			Il discrepancies v	with this order?		Yes		No 🗆	NA 🗹	
	Person	Notified:	1		Date:			parameters of the security of		
	By Who	om:	T		Via:	_ eM	ail [Phone Fax	☐ In Person	
	Regard	ing:	1							
	Client In	nstruction	s:			-				
16.	Additional re	marks:								
17.	Cooler Infor	mation								
	Cooler No	Temp		Seal Intact Se	eal No S	Seal D	ate	Signed By		
	1	0.5	Good	Yes						

С	hain-	-of-Cu	istody Record	Turn-Around	I ime:					-	A		F	M	/TE	201			NT	AI	
Client:	Michael	Gant - Lu	cid Energy Group - Delaware	Standard		5 Day				A	N	AL	YS	SIS	S L	AE	30		TO		
Moiling	^ ddrooo			1	ateral 8" Pip	eline				,	WWV	w.ha	llen	viror	ımer	ntal.c	om				
walling	Address	310	0 McKisson St. #800				1	49	01 F	lawk	ins	NE	- A	lbuq	uerq	ue, N	MN 8	7109)		
		Dallas,	TX 9520 1 9/21/2022 2:44:2.		0000			Te	el. 50	05-34	45-3	3975		Fax	50	5-345	5-410)7			
Phone #	#:314 - 33	30-7876		03A201	3008							A	nal	ysis	Rec	ques	t				
email or	Fax#:m	ngant@lud	cid-energy.com	Project Mana	ager:		=	0					SO4			nt)					
QA/QC F	Package:			Ben Belill			802	MR	PCB's		MS		2, 5			pse					
☐ Stan	dard		☐ Level 4 (Full Validation)				3's (02			8270SIMS		, PO4,			nt/A					
Accredi	tation:	□ Az Co	mpliance	Sampler: LC			TMB's (8021)	70/	082	-	827		NO_2			(Present/Absent)					
□ NEL		☐ Other		On Ice:	∠ Yes	□ No	1-	80	es/8	504.1)	ō	<u>s</u>			(A)	P.					
□ EDD	(Type)	T		# of Coolers:	ENDERS STREET, STORY STREET		MTBE	9)C	icide	ρ	8310	leta	8	7	\-ic	Coliform					
				Cooler Temp	O(including CF):	7-0-0-5	Σ	015	est	Met	by	8	Br,	9	Sen	Solif					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208811	BTEX /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method	PAHs by	RCRA 8 Metals	CI, F, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total C					
8/10/22	1300	S	PH05 @ 0.5'	2 oz	N/A	001												\top		T	\top
8/10/22	1320	S	PH05 @ 4'	2 oz	N/A	200															
																		\perp	\perp		
																		\perp	\perp	\perp	
																			\perp	\perp	
																		\perp	\perp	\perp	
																		\perp	\perp	\perp	
Date:	Time:	Relinquishe	ed by:	Received by:	Via:	Date Time	Ren	nark	s:												
8/11/22	MO	Liz Ch	neli	1 900	uun	8/11/22 1210										52250)10 A	FE: 3	30009	1	
Date:	Time:	Relinquishe	ed by:	Received by:	Via:	Date Time	unc			ucid enso						olum.c	com f	or re	portin	g rec	eipts
U122	1900	Cur	muns.	2/1	Murier	8/12/22 7120		jhernandez@ensolum.com/bbelill@ensolum.com for reporting receip													



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

August 18, 2022

Ben Belill Lucid Energy 201 South 4th St. Artesia, NM 88210

TEL: (575) 513-8988

FAX:

RE: Graham Lateral 8 Inch Pipeline OrderNo.: 2208812

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2208812

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH02@2'

Project: Graham Lateral 8 Inch Pipeline **Collection Date:** 8/10/2022 2:20:00 PM

Lab ID: 2208812-001 **Matrix:** SOIL **Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/15/2022 5:48:30 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/15/2022 5:48:30 PM
Surr: DNOP	107	21-129	%Rec	1	8/15/2022 5:48:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2022 2:05:00 PM
Surr: BFB	105	37.7-212	%Rec	1	8/16/2022 2:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	8/16/2022 2:05:00 PM
Toluene	ND	0.047	mg/Kg	1	8/16/2022 2:05:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2022 2:05:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	8/16/2022 2:05:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/16/2022 2:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	140	60	mg/Kg	20	8/16/2022 3:30:57 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

Page 1 of 6

EPA METHOD 300.0: ANIONS

Chloride

Analytical Report

Lab Order **2208812**Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH02@4'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 12:00:00 PM

 Lab ID:
 2208812-002
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 13 mg/Kg 1 8/15/2022 6:05:00 PM Motor Oil Range Organics (MRO) ND 42 mg/Kg 1 8/15/2022 6:05:00 PM Surr: DNOP 101 21-129 %Rec 1 8/15/2022 6:05:00 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 2:25:00 PM 4.6 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 8/16/2022 2:25:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 2:25:00 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 8/16/2022 2:25:00 PM Ethylbenzene ND 0.046 mg/Kg 1 8/16/2022 2:25:00 PM Xylenes, Total ND 0.093 mg/Kg 8/16/2022 2:25:00 PM 1 Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 8/16/2022 2:25:00 PM

61

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

mg/Kg

20

60

- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Analyst: NAI

8/16/2022 4:08:10 AM

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208812**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69515 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **69515** RunNo: **90298**

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220931 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69515 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69515 RunNo: 90298

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220932 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

Result

3.6

PQL

WO#: **2208812** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69506	SampTyp	e: MBL	.K	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch II	D: 6950	06	F	RunNo: 90	0276				
Prep Date: 8/15/2022	Analysis Date	e: 8/15	5/2022	S	SeqNo: 32	221135	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.0	21	129			
Sample ID: LCS-69506	SampTyp	e: LCS		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch II	D: 6950	06	F	RunNo: 90	0276				
Prep Date: 8/15/2022	Analysis Date	e: 8/15	5/2022	S	SeqNo: 32	221136	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	102	64.4	127			
Surr: DNOP	4.3		5.000		86.6	21	129			
Sample ID: MB-69521	SampTyp	e: MBL	.K	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch II	D: 6952	21	F	RunNo: 90	0276				
Prep Date: 8/16/2022	Analysis Date	e: 8/16	6/2022	5	SeqNo: 32	221703	Units: %Rec	:		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		87.7	21	129			
Sample ID: LCS-69521	SampTyp	e: LCS		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch II	D: 6952	21	F	RunNo: 90	0276				
Prep Date: 8/16/2022	Analysis Date	046	2/0000		SegNo: 32	204704	Units: %Rec			

SPK value SPK Ref Val %REC

5.000

Qualifiers:

Analyte

Surr: DNOP

- 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

LowLimit

21

72.9

HighLimit

129

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

Page 4 of 6

%RPD

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208812** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221186 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137 Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: mb-69502 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221188 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 37.7 212

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

2208812 18-Aug-22

WO#:

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502	Samp1	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 695	502	F	RunNo: 90	0302				
Prep Date: 8/15/2022	Analysis [Date: 8/	16/2022	S	SeqNo: 32	221187	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.92	0.050	1.000	0	92.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.5	70	130			
Sample ID: mb-69502	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: 695	502	F	RunNo: 90	0302				
Prep Date: 8/15/2022	Analysis [Date: 8/	16/2022	9	SeqNo: 32	221192	Units: mg/K	g		
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	0.99		1.000		98.8	70	130			
Sample ID: mb-69518	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: 695	518	F	RunNo: 90	0310				

Surr. 4-Bromonuorobenzene	1.0	1.000		105	70	130			
Sample ID: LCS-69518	SampType:	LCS	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batch ID:	69518	F	RunNo: 90	0310				
Prep Date: 8/15/2022	Analysis Date:	8/16/2022	9	SeqNo: 32	222137	Units: %Red	:		
Analyte	Result Po	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1	1.000		108	70	130			

SPK value SPK Ref Val %REC LowLimit

SeqNo: 3222136

Units: %Rec

HighLimit

%RPD

RPDLimit

Qual

Qualifiers:

Prep Date:

Analyte

8/15/2022

Curry 4 Dramafluarahan-ana

Analysis Date: 8/16/2022

PQL

1 000

Result

1 0

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

Page 6 of 6



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 Energ	Jy .	Work Order Nu	mber: 220	8812		RcptNo	1
Received By:	Juan Roja	•	8/12/2022 7:20:0	0 AM		Guarang		
Completed By			8/12/2022 7:20:0					
	_		6/12/2022 6.54.5	Z AIVI				
Reviewed By:	DAO 8	7/12/22						
Chain of Cu	ıstody							
1. Is Chain of	Custody compl	ete?		Yes	V	No 🗌	Not Present	
2. How was th	ne sample deliv	ered?		Cou	urier			
Log In								
3. Was an atte	empt made to c	ool the sampl	es?	Yes	V	No 🗌	NA 🗌	
4. Were all sa	mples received	at a temperat	ure of >0° C to 6.0°C	Yes	V	No 🗆	NA 🗆	
5. Sample(s) i	in proper contai	ner(s)?		Yes	V	No 🗆		
6. Sufficient sa	ample volume fo	or indicated te	st(s)?	Yes	~	No 🗆		
7. Are samples	s (except VOA	and ONG) pro	perly preserved?	Yes	~	No 🗌		
8. Was preser	vative added to	bottles?		Yes		No 🗸	NA 🗆	
9. Received at	least 1 vial with	n headspace	<1/4" for AQ VOA?	Yes		No 🗆	NA 🗹	
10. Were any s	ample containe	ers received b	roken?	Yes		No 🗸	# of preserved	
11. Does paper	work match hot	tle lahels?		Vac	V	No 🗆	bottles checked for pH:	
	epancies on cha		(165	•	110		r >12 unless noted)
12. Are matrice	s correctly iden	tified on Chair	of Custody?	Yes	V	No 🗌	Adjusted?	
13. Is it clear wi			?	Yes		No 🗆		11 Sti2 (2)
14. Were all hol	lding times able customer for a			Yes	V	No 📙	Checked by:	11/0/12/2
Special Han	dling (if app	licable)					•	
15. Was client			vith this order?	Yes	s 🗆	No 🗌	NA 🗸	
Perso	on Notified:		Da	ite:	NO. OF TAXABLE	Name of the Party		
By W	/hom:		Via	a: eN	/ail	Phone Fax	☐ In Person	
Rega	irding:						ACCUPATION CONTRACTOR STREET, CO	
Clien	t Instructions:							
16. Additional	remarks:							
17. Cooler Inf	formation							
Cooler I		Condition	Seal Intact Seal No	Seal [Date	Signed By		
1	0.5	Good	Yes	1				

			istody Record	i urn-Around	rime.						н	AII	F	MV	/TE	20	NM	1FI	MIT	AI	
Client:	Michael	Gant - Luc	cid Energy Group - Delaware	Standard	Rush	50au	4_										301				
						alina		-			W	ww.h	allen	viror	mer	ntal.c	com				
Mailing	Address	310	0 McKisson St. #800		ateral 8" Pip	eine			49	01 Ha	awkin	s NE	- A	lbuq	uero	que,	NM 8	7109)		
		Bearing a	ተ _ን ሂ ዋፍ <u>ታ</u> 0 ዓ/21/2022 2:44:22						Te	el. 50	5-345	-397	5	Fax	50	5-34	5-410)7			
Phone :	#:314 - 33	30-7876		03A201	3008								Ana	lysis	Red	ques	it				
email o	r Fax#:m	ngant@lud	cid-energy.com	Project Mana	iger:			5	S SO ₄					T	T						
QA/QC	Package:			Ben Belill				(8021)	MR	PCB's	9	2	8,4			pse					
□ Stan	dard		☐ Level 4 (Full Validation)					ဟ	TPH:8015D(GRO / DRO / MRO)		1.1)	5	PO4,			Total Coliform (Present/Absent)		-			
Accredi	tation:	□ Az Co	mpliance	Sampler: LC				TMB	7	082	= 2	170	NO ₂ ,			ese					
□ NEL		□ Other		On Ice:	Yes	□ No			8	8/se	504				8	P.					
	(Type)			# of Coolers:				MTBE	9)	icide	ور ا و	leta	Br, NO ₃ ,	12	<u>۱</u> -ز	E I					
				Cooler Temp	(including CF): (0)	2-0=0-7			015[est	Met	8 2	Ŗ,	0	Sen	jij (
				Container	Preservative	HEAL	No.	BTEX /	H:8(8081 Pesticides/8082	EDB (Method 504.1)	RCRA 8 Metals	CI, F,	8260 (VOA)	8270 (Semi-VOA)	tal					
Date	Time	Matrix	Sample Name	Type and #	Туре	220881	2	ВТ	且	80		2 8	D.	82	82.	۴		\perp	\perp	\perp	\perp
8/10/22	1420	S	PH02 @ 2'	2 oz	N/A	100			57												
8/10/22	1200	S	PH02 @ 4'	2 oz	N/A	007							19								
													T								
Date:	Time:	Relinquishe		Received by:	Via:	- 1	Time	Rem	nark	s:	-										
8/11/22		Liz Ch		Cicuu	·ii	8/11/22	1210									5225	010 A	FE: 3	30009	91	
Date:	Time:	Relinquishe	ed by:	Received by:	↑ Via: V	Date	Time			to Lu ez@e						olum.	com f	or rep	portir	ng re	ceipts
llihz	1900	aci	w	20	Course	8/12/22	7120	9													

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



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

OrderNo.: 2208813

August 18, 2022

Ben Belill Lucid Energy 201 South 4th St. Artesia, NM 88210

TEL: (575) 513-8988

FAX:

RE: Graham Lateral 8 Inch Pipeline

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 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

ands

4901 Hawkins NE

Albuquerque, NM 87109

2208813-001

Lab ID:

Analytical Report Lab Order 2208813

Received Date: 8/12/2022 7:20:00 AM

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH06@0.5'

Matrix: SOIL

Project: Graham Lateral 8 Inch Pipeline **Collection Date:** 8/10/2022 1:25:00 PM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 13 mg/Kg 1 8/15/2022 6:21:08 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 8/15/2022 6:21:08 PM Surr: DNOP 108 21-129 %Rec 1 8/15/2022 6:21:08 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 2:45:00 PM 4.8 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 8/16/2022 2:45:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 2:45:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/16/2022 2:45:00 PM Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 2:45:00 PM Xylenes, Total ND 0.096 mg/Kg 8/16/2022 2:45:00 PM 1 Surr: 4-Bromofluorobenzene 97.7 70-130 %Rec 1 8/16/2022 2:45:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 8/15/2022 11:41:21 PM ND 60 20

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

Page 1 of 6

Analytical Report Lab Order 2208813

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH06@4'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 1:45:00 PM

 Lab ID:
 2208813-002
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 13 mg/Kg 1 8/15/2022 6:37:22 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 8/15/2022 6:37:22 PM Surr: DNOP 102 21-129 %Rec 1 8/15/2022 6:37:22 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 3:05:00 PM 4.8 mg/Kg 1 Surr: BFB 105 37.7-212 %Rec 1 8/16/2022 3:05:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 3:05:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/16/2022 3:05:00 PM Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 3:05:00 PM Xylenes, Total ND 0.096 mg/Kg 8/16/2022 3:05:00 PM 1 Surr: 4-Bromofluorobenzene 97.7 70-130 %Rec 1 8/16/2022 3:05:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 8/15/2022 11:53:46 PM ND 60 20

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

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208813**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69517 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69517 RunNo: 90295

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220797 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69517 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69517 RunNo: 90295

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220798 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

WO#: **2208813** *18-Aug-22*

Client: Lucid Energy

Sample ID: LCS-69506

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69506	SampT	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batcl	h ID: 695	506	F	RunNo: 90	276				
Prep Date: 8/15/2022	Analysis D	Date: 8/1	15/2022	5	SeqNo: 32	221135	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.0	21	129			

,	•	• •						_	•	
Client ID: LCSS	Batch	n ID: 69 5	506	F	RunNo: 90	0276				
Prep Date: 8/15/2022	Analysis D	oate: 8/	15/2022	5	SeqNo: 32	221136	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	102	64.4	127			
Surr: DNOP	4.3		5.000		86.6	21	129			

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID: MB-69521	SampType: MBLK		TestCode: EPA Method	I 8015M/D: Die:	sel Range	Organics	
Client ID: PBS	Batch ID: 69521		RunNo: 90276				
Prep Date: 8/16/2022	Analysis Date: 8/16/2	2022	SeqNo: 3221703	Units: %Rec			
Analyte	Result PQL S	PK value SPK Ref \	al %REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8	10.00	87.7 21	129			

Sample ID: LCS-69521	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 69521	RunNo: 90276
Prep Date: 8/16/2022	Analysis Date: 8/16/2022	SeqNo: 3221704 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.6 5.000	72.9 21 129

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208813**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221186 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137 Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: mb-69502 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221188 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 37.7 212

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208813** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502	SampType: LC	3	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID: LCSS	Batch ID: 695	02	F	RunNo: 90	302				
Prep Date: 8/15/2022	Analysis Date: 8/1	6/2022	9	SeqNo: 32	21187	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90 0.025	1.000	0	90.1	80	120			
Toluene	0.92 0.050	1.000	0	92.5	80	120			
Ethylbenzene	0.94 0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8 0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	0.99	1.000		98.5	70	130			
Sample ID: mb-69502	SampType: MB	LK	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID: PBS	Batch ID: 695	02	F	RunNo: 90	302				
Prep Date: 8/15/2022	Analysis Date: 8/1	6/2022	\$	SeqNo: 32	21192	Units: mg/K	g		
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	0.99	1.000		98.8	70	130			
Sample ID: mb-69518	SampType: MB	LK	Tes	tCode: EP	A Method	8021B: Volati	les		
Client ID: PBS	Batch ID: 695	18	F	RunNo: 90	310				
Prep Date: 8/15/2022	Analysis Date: 8/1	6/2022	\$	SeqNo: 32	22136	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		105	70	130			
Sample ID: LCS-69518	SampType: LCS	6	Tes	tCode: EP	A Method	8021B: Volati	les		

Qualifiers:

Client ID:

Prep Date:

Analyte

LCSS

Surr: 4-Bromofluorobenzene

8/15/2022

Batch ID: 69518

Analysis Date: 8/16/2022

PQL

SPK value SPK Ref Val

1.000

Result

1.1

- 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

RunNo: 90310

%REC

108

SeqNo: 3222137

LowLimit

Units: %Rec

HighLimit

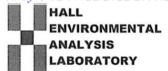
%RPD

RPDLimit

Qual

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

Page 6 of 6



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:	220	8813		RcptNo	1
Received By:	Juan Rojas	8/12/2022 7:20:00 AM			Guaran g		
Completed By:	Tracy Casarrubias	8/12/2022 8:57:41 AM					
Reviewed By:	DAD 8/12/22						
	5/. /						
Chain of Cus	stody						
1. Is Chain of C	Custody complete?		Yes	✓	No 🗌	Not Present	
2. How was the	e sample delivered?		Cou	rier			
Log In							
	mpt made to cool the sample	s?	Yes	~	No 🗌	NA 🗆	
4					No 🗆	🗆	
4. Were all sam	nples received at a temperatu	re of >0° C to 6.0°C	Yes	V	NO L	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No 🗌		
6 Sufficient cor	mple volume for indicated tes	t/c\2	Yes		No 🗆		
	(except VOA and ONG) prop		Yes		No 🗆		
-	ative added to bottles?	is preserved.	Yes		No 🗹	NA 🗆	
	east 1 vial with headspace <		Yes		No 🗌	NA 🗸	
10. Were any sa	imple containers received bro	oken?	Yes		No 🗹	# of preserved	
11. Does paperw	ork match bottle labels?		Yes	V	No 🗆	bottles checked for pH:	
(Note discrep	pancies on chain of custody)						r >12 unless noted)
	correctly identified on Chain		Yes		No 🗆	Adjusted?	
	at analyses were requested?		Yes	A STATE OF THE STA	No 🗌	Checked by:	yn 2/12/22
	ling times able to be met? customer for authorization.)		Yes	V	No 🗆	Checked by.	0,011515
Special Hand	lling (if applicable)						
	otified of all discrepancies wi	ith this order?	Yes		No 🗌	NA 🗸	
Person	n Notified:	Date:	-		months and a second second		
By Wh	nom:	Via: [eM	ail 🗌	Phone Fax	☐ In Person	
Regard	ding:						
Client	Instructions:			THE RESERVE AND THE PERSON		CONTRACT OF STREET OF STREET OF STREET	
16. Additional re	emarks:						
17. Cooler Info	ormation_						
Cooler N		Seal Intact Seal No S	Seal D	ate	Signed By		
1	0.5 Good	Yes					

			istody Record	Turn-Around	rime.					н	A II I	F	INI V	/TI	20	NI IN	1EN		8.1	
Client: I	Michael	Gant - Luc	cid Energy Group - Delaware			5 Day											RA			,
				Project Name			100			w	ww.h	aller	viror	nme	ntal.c	com				
Mailing	Address	010	0 McKisson St. #800		ateral 8" Pip	eline		49	01 Ha	awkin	s NE	- <i>F</i>	Albuq	uero	que, I	NM 8	7109			
		Regeived Dallas,	中X 9520 9/21/2022 2:44:22	Project #:				Te	el. 50	5-345	-397	5	Fax	50	5-34	5-410	07			
Phone #	#: 314-33	30-7876		03A201	3008							Ana	lysis	Re	ques	t				
email o	r Fax#:m	ngant@lud	cid-energy.com	Project Mana	ager:		=	0				SO ₄			ı£		\top	Т	T	Π
QA/QC I	Package:			Ben Belill			(8021)	MR	PCB's	9	2	, S			pse					
☐ Stan	dard		☐ Level 4 (Full Validation)				lωl	0		1.1)	5	PO4,			ntA					
Accredi	tation:	□ Az Co	mpliance	Sampler: LC			TMB	/ DRO / MRO)	082	<u></u>] 2	700	NO ₂ ,		_	ese					
□ NEL		☐ Other			Yes	□ No		RO	8/se	504	5 0			8 8	P.					
□ EDD	(Type)			# of Coolers:	1	Face	MTBE	9)0	icid	hod	Aeta	2	₽	늘	orm					
				Cooler Terrip	(including CF).	5-0=0.5		015	Pest	Met	8	'n,	18	Ser	Sel					
Dete	Time a	Matrix	Comple Name	Container	Preservative		BTEX /	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	RCRA 8 Metals	CI, F, Br, NO3,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
Date	Time	Matrix	Sample Name	Type and #	Type	2208813			8	ш	- 22	_		80	-	+	+	+	+	
8/10/22	1325	S	PH06 @ 0.5'	2 oz	N/A	001			_	_	+		_	_		\dashv	+	+	_	_
8/10/22	1345	S	PH06 @ 4'	2 oz	N/A	200						27				\perp	\perp	\perp		
Date: 8/11/22		Relinquishe		Received by:	Via:	Date Time	Rem			00	D		0-4		5005	040.4	FF. 0	0000		
	1210 Time:	Liz Ch Relinquishe		Received by:	Win	0 8/11/22 12/0	dire	ct bill	to Lu	icid E	nergy	; ema	ail clie	ent,			FE: 3			
Date:	Ian	A.A.	ou by.	/ /	Via:	Date Time	jherr	nand	ez@e	ensolu	m.co	m/bb	elill@	enso	olum.	com f	or rep	orting	g rece	eipts
MILL	rw	Luciu	ully.	1-24	Courie	8112122 7.120														
11	necessary,	samples subi	mitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratorie	es. This serves as notice of this	possil	bility.	Any sul	o-contra	cted d	ata wil	be cle	arly n	otated (on the	analytic	al repo	rt.	



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

OrderNo.: 2208814

August 18, 2022

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

FAX:

RE: Graham Lateral 8 Inch Pipeline

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 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

ands

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2208814

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH01@2'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 2:05:00 PM

 Lab ID:
 2208814-001
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 430 14 mg/Kg 1 8/15/2022 6:53:46 PM Motor Oil Range Organics (MRO) 360 45 mg/Kg 1 8/15/2022 6:53:46 PM Surr: DNOP 98.9 21-129 %Rec 1 8/15/2022 6:53:46 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 8/16/2022 3:25:00 PM mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 8/16/2022 3:25:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 3:25:00 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 8/16/2022 3:25:00 PM Ethylbenzene ND 0.047 mg/Kg 1 8/16/2022 3:25:00 PM Xylenes, Total ND 0.095 mg/Kg 8/16/2022 3:25:00 PM 1 Surr: 4-Bromofluorobenzene 96.3 70-130 %Rec 1 8/16/2022 3:25:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 8/16/2022 7:44:59 AM 2800 150 50

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

Page 1 of 6

Analytical Report Lab Order 2208814

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH01@4'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 2:10:00 PM

 Lab ID:
 2208814-002
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 13 mg/Kg 1 8/15/2022 7:10:00 PM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 8/15/2022 7:10:00 PM Surr: DNOP 105 21-129 %Rec 1 8/15/2022 7:10:00 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 8/16/2022 11:20:39 AM 5.0 mg/Kg 1 Surr: BFB 84.4 37.7-212 %Rec 1 8/16/2022 11:20:39 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 8/16/2022 11:20:39 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 8/16/2022 11:20:39 AM Ethylbenzene ND 0.050 mg/Kg 1 8/16/2022 11:20:39 AM Xylenes, Total ND mg/Kg 8/16/2022 11:20:39 AM 0.099 1 Surr: 4-Bromofluorobenzene 107 70-130 %Rec 1 8/16/2022 11:20:39 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 8/16/2022 12:18:35 AM 260 61 20

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

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208814**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69517 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **69517** RunNo: **90295**

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220797 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69517 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69517 RunNo: 90295

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220798 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208814**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69506	SampType: MBL	_K	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 695 () 6	F	RunNo: 90	276				
Prep Date: 8/15/2022	Analysis Date: 8/1	5/2022	S	SeqNo: 32	221135	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	9.3	10.00		93.0	21	129			
Sample ID: LCS-69506	SampType: LCS	;	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 6950)6	F	RunNo: 90)276				
Prep Date: 8/15/2022	Analysis Date: 8/19	5/2022	5	SeqNo: 32	221136	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51 15	50.00	0	102	64.4	127			
Surr: DNOP	4.3	5.000		86.6	21	129			
Sample ID: MB-69473	SampType: MBL	 _K	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 6947	73	F	RunNo: 90	276				
Prep Date: 8/12/2022	Analysis Date: 8/10	6/2022	5	SeqNo: 32	221171	Units: %Red	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3	10.00		83.1	21	129			
Sample ID: LCS-69473	SampType: LCS		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	_
							_	=	

SPK value SPK Ref Val

5.000

Prep Date:

Surr: DNOP

Analyte

8/12/2022

Analysis Date: 8/16/2022

PQL

Result

4.3

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

SeqNo: 3221173

LowLimit

21

%REC

86.6

Units: %Rec

HighLimit

129

%RPD

RPDLimit

Qual

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208814**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221186 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137 Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: mb-69502 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221188 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 37.7 212

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208814**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

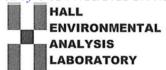
Sample ID: Ics-69502	Samp	Гуре: LC :	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 695	502	F	RunNo: 90	0302				
Prep Date: 8/15/2022	Analysis [Date: 8/1	16/2022	9	SeqNo: 32	221187	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.92	0.050	1.000	0	92.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.5	70	130			

Sample ID: mb-69502	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: 69	502	F	RunNo: 90	0302				
Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	9	SeqNo: 32	221192	Units: mg/K	g		
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	0.99		1.000		98.8	70	130			

Qualifiers:

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

Page 6 of 6



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 Numb	er: 2208814		RcptNo: 1	
Received By: Juan Rojas	8/12/2022 7:20:00 A	M	Glean Say		
Completed By: Tracy Casarrubi					
		iivi			
Reviewed By: DAO 8/12/	/22				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
Was an attempt made to cool the	e samples?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at a te	emperature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)	?	Yes 🗸	No 🗆		
6. Sufficient sample volume for indic	cated test(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and Of	NG) properly preserved?	Yes 🗸	No 🗆		
8. Was preservative added to bottle	s?	Yes \square	No 🗸	NA 🗆	
9. Received at least 1 vial with head	space <1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers rece	eived broken?	Yes	No 🗸	# of preserved	
11.5			w. 🗆	bottles checked	
 Does paperwork match bottle laborated (Note discrepancies on chain of control of the control of th		Yes 🔽	No L	for pH: (<2 or >12	unless noted)
12. Are matrices correctly identified o		Yes 🗹	No 🗆	Adjusted?	
13. Is it clear what analyses were req	uested?	Yes 🔽	No 🗆		2 1.2/22
 Were all holding times able to be (If no, notify customer for authorized) 		Yes 🗸	No 🗆	Checked by:	19/10/20
	,				
Special Handling (if applicab 15. Was client notified of all discrepa		Yes	No 🗆	NA 🗸	
Person Notified:	Date:				
By Whom:	Via:		Phone Fax	☐ In Person	
Regarding:			Tiono [] Tux	_ III I Gloon	
Client Instructions:			-		
16. Additional remarks:					
17. Cooler Information					
The second secon	ndition Seal Intact Seal No	Seal Date	Signed By		
1 0.5 Good					

Chain-of-Custody Record				Turn-Around Time:					HALL ENVIRONMENTAL												
Client:	Michael	Gant - Luc	cid Energy Group - Delaware	■ Standard Rush 5 Day Project Name:					ANALYSIS LABORATORY												
Mailing Address				Graham Lateral 8" Pipeline				www.hallenvironmental.com													
Mailing Address: 3100 McKisson St. #800				, and the second				4901 Hawkins NE - Albuquerque, NM 87109													
Received by QCD: 9/21/2022 2:44:22 Dallas, TX 75201									Te	el. 505	5-345	14 100 100		and the same of th	_	Name and Address of the Owner, where	5-410	7	100510		Control of Co
Phone #:314-330-7876				03A2013008								,		ysis	Red	ques	t				
email or Fax#:mgant@lucid-energy.com				Project Manager: Ben Belill				5	0				SO4			ent)					
QA/QC Package:								(802	M M	PCB's	MS		PO ₄ ,			Abse					
☐ Standard ☐ Level 4 (Full Validation)								TMB's (8021)	8		8270SIMS					ant/					
Accreditation: Az Compliance				Sampler: LC				Σ		308	827		NO ₂ ,			Coliform (Present/Absent)					
□ NELAC □ Other				On Ice: Yes No				E'	88	les/	507	SIS			VOA	9					
	(Type)	T		# of Coolers: \ Cooler Temp(including CF): 0.5-0-0.5				MTBE	0)0	ticio	831	Meta	Br, NO ₃ ,	₹	mi-\	iforn					
					1	0-013			301	Pes	Me V	18	ä	8	(Se	S					
D - 1	- :			Container	Preservative			BTEX /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EUB (Method 504.1) PAHs bv 8310 or 82	RCRA 8 Metals	CI, F,	8260 (VOA)	8270 (Semi-VOA)	Total					
Date	1405	Matrix S	Sample Name	Type and #	Type	22088		B	F	ا ش	ПО	1 82	0	80	80	-	+	+	+	+	+
8/10/22		_	PH01 @ 2'	2 oz	N/A	001			_	-	+	-			_		+	+	+	+	+-
8/10/22	1410	S	PH01 @ 4'	2 oz	N/A	002													\perp	_	
																	T				
											\top						\top	\top	\top	\top	
									\neg		\top						\top	\top	\top		\top
									\forall	\top	+	T					\top	\top	+	+	T
								\vdash	\dashv	_	+	\vdash					+	+	+	+	\vdash
Date:	Time:	Relinquished by:		Received by: Via: Date Time			Time	Remarks:													
8/11/22	OWY	Liz Cheli		Munin 8/1/22 1210				Company Code: 860 Property Code: 195225010 AFE: 300091													
Dates Time:		Relinquished by:		Received by: Via: Date Time				 direct bill to Lucid Energy; email client, jhernandez@ensolum.com/bbelill@ensolum.com for reporting receipts 													
8/11/12/1900		aluuns		Pot 10 UNIE S/12/72 7:20																	

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.



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

OrderNo.: 2208816

August 18, 2022

Ben Belill Lucid Energy 201 South 4th St. Artesia, NM 88210

TEL: (575) 513-8988

FAX:

RE: Graham Lateral 8 Inch Pipeline

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/12/2022 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

ands

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2208816

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH03@0.5'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 12:05:00 PM

 Lab ID:
 2208816-001
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/15/2022 7:26:11 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/15/2022 7:26:11 PM 21-129 Surr: DNOP 99.4 %Rec 1 8/15/2022 7:26:11 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 8/16/2022 11:44:20 AM 5.0 mg/Kg 1 Surr: BFB 83.8 37.7-212 %Rec 1 8/16/2022 11:44:20 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 8/16/2022 11:44:20 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 8/16/2022 11:44:20 AM Ethylbenzene ND 0.050 mg/Kg 1 8/16/2022 11:44:20 AM Xylenes, Total ND mg/Kg 8/16/2022 11:44:20 AM 0.10 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/16/2022 11:44:20 AM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride mg/Kg 8/16/2022 12:31:01 AM 71 60 20

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

Page 1 of 6

Analytical Report Lab Order 2208816

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: PH03@4'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 12:20:00 PM

 Lab ID:
 2208816-002
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/15/2022 7:42:02 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/15/2022 7:42:02 PM
Surr: DNOP	99.0	21-129	%Rec	1	8/15/2022 7:42:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2022 12:08:00 PM
Surr: BFB	82.9	37.7-212	%Rec	1	8/16/2022 12:08:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	8/16/2022 12:08:00 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 12:08:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 12:08:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/16/2022 12:08:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/16/2022 12:08:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	110	60	mg/Kg	20	8/16/2022 1:08:15 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208816**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69517 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **69517** RunNo: **90295**

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220797 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69517 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69517 RunNo: 90295

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220798 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Qualifiers:

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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208816**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Project: Graham l	Lateral 8 Inch Pi	peime							
Sample ID: MB-69506	SampType: N	IBLK	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID: PBS	Batch ID: 6	9506	R	RunNo: 90	276				
Prep Date: 8/15/2022	Analysis Date: 8	3/15/2022	S	SeqNo: 32	221135	Units: mg/Kg	I		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 1	5							
Motor Oil Range Organics (MRO)	ND 50)							
Surr: DNOP	9.3	10.00		93.0	21	129			
Sample ID: LCS-69506	SampType: L	cs	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID: LCSS	nt ID: LCSS Batch ID: 69506 RunNo: 90276								
Prep Date: 8/15/2022	rep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3221136 Units: mg/Kg								
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51 1	5 50.00	0	102	64.4	127			
Surr: DNOP	4.3	5.000		86.6	21	129			
Sample ID: MB-69521	SampType: N	IBLK	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID: PBS	Batch ID: 6	9521	R	RunNo: 90	276				
Prep Date: 8/16/2022	Analysis Date: 4	3/16/2022	S	SeqNo: 32	221703	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8	10.00		87.7	21	129			
Sample ID: LCS-69521	SampType: L	cs	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID: LCSS	Batch ID: 6	9521	R	RunNo: 90	276				
Prep Date: 8/16/2022	Analysis Date: 4	3/16/2022	S	SeqNo: 32	221704	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.6	5.000		72.9	21	129			

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208816** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221186 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137

Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: mb-69502 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221188 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 37.7 212

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208816** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502 SampType: LCS						
Campio 13. 103-03302	TestCode: E	PA Method	8021B: Volati	les		
Client ID: LCSS Batch ID: 69502	RunNo: 9	00302				
Prep Date: 8/15/2022 Analysis Date: 8/16/2022	SeqNo: 3	3221187	Units: mg/K	g		
Analyte Result PQL SPK value	ue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene 0.90 0.025 1.00	0 0 90.1	80	120			
Toluene 0.92 0.050 1.00	0 92.5	80	120			
Ethylbenzene 0.94 0.050 1.00	0 93.8	80	120			
Xylenes, Total 2.8 0.10 3.00	0 0 94.1	80	120			
Surr: 4-Bromofluorobenzene 0.99 1.00	00 98.5	70	130			
Sample ID: mb-69502 SampType: MBLK	TestCode: E	PA Method	8021B: Volati	les		
Client ID: PBS Batch ID: 69502	RunNo: 9					
Prep Date: 8/15/2022 Analysis Date: 8/16/2022	SeqNo: 3	3221192	Units: mg/K	g		
Analyte Result PQL SPK value	ue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene ND 0.025	ue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene ND 0.025 Toluene ND 0.050	ue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050	ue SPK Ref Val %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050		LowLimit 70	HighLimit	%RPD	RPDLimit	Qual
Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10	00 98.8	70	-		RPDLimit	Qual
Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.99 1.00	00 98.8	70 PA Method	130		RPDLimit	Qual
Benzene	00 98.8 TestCode: E	70 PA Method 90310	130	les	RPDLimit	Qual
Benzene	TestCode: E RunNo: 9 SeqNo: 3	70 PA Method 90310	130 8021B: Volati l	les	RPDLimit RPDLimit	Qual
Benzene	TestCode: E RunNo: § SeqNo: 3	70 PA Method 90310 8222136	130 8021B: Volatil Units: %Rec	les		
Benzene	TestCode: E RunNo: 9 SeqNo: 3 ue SPK Ref Val %REC 00 105	70 PA Method 90310 8222136 LowLimit 70	130 8021B: Volatil Units: %Rec HighLimit	les %RPD		
Benzene	TestCode: E RunNo: 9 SeqNo: 3 ue SPK Ref Val %REC 00 105	70 PA Method 90310 8222136 LowLimit 70 PA Method	130 8021B: Volatil Units: %Rec HighLimit 130	les %RPD		

Qualifiers:

Analyte

Surr: 4-Bromofluorobenzene

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

Result

1.1

B Analyte detected in the associated Method Blank

%REC

108

LowLimit

HighLimit

E Estimated value

SPK value SPK Ref Val

1.000

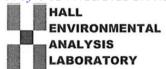
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6

RPDLimit

Qual

%RPD



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: Lucid Energy Work Order Number: 2208816 RcptNo: 1 Guarang Received By: 8/12/2022 7:20:00 AM Juan Rojas Completed By: Tracy Casarrubias 8/12/2022 9:04:33 AM Reviewed By: 8/12/22 Chain of Custody Yes 🗸 No 🗌 Not Present 1. Is Chain of Custody complete? 2. How was the sample delivered? Courier Log In No 🗌 NA 🗌 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 Yes 🗸 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 No \square Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No \square 7. Are samples (except VOA and ONG) properly preserved? Yes No 🗸 NA \square 8. Was preservative added to bottles? No 🗌 NA V Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes 🗌 No V 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No \square 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 ~ 13. Is it clear what analyses were requested? Checked by: 418/12/22 No 🗌 14. Were all holding times able to be met? Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: eMail Phone Fax In Person Via: Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 0.5 Good

Yes

C	hain	-of-Cu	istody Record	i urn-Arouna	rime:				100	ы	AI		=15117	VT.	PC	INC	ME	NIT	CAI	1
Client:	Michael	Gant - Luc	cid Energy Group - Delaware	Standard		5 Day				A	NA	L	'SI	S	LA	ВО	RA			
					ateral 8" Pip	neline				W	ww.	halle	nviro	nme	ental.	.com	1			
Mailing	Address	510	0 McKisson St. #800		aterar o Trip			490	01 Ha	awkir	s N	E -	Albu	que	rque,	MM ,	8710)9		
		Balla's,	Thy 9526 9/21/2022 2:44:22					Te	el. 50	5-34	5-39	75	Fa	x 5	05-34	45-4	107			
Phone #	#:314 - 33	0-7876		03A201	3008		Analysis Request													
email o	r Fax#:m	gant@lud	cid-energy.com	Project Mana	ager:		_	0		T	T	5	4	Т	£		П	\Box	\top	
QA/QC F	Package:			Ben Belill			(8021)	MR	B's	١	2				psei					
□ Stan	dard		☐ Level 4 (Full Validation)				l o	0	PCB's	5		2	2	1	Į₹					
Accredi			mpliance	Sampler: LC			TMB	/ DR	8082	4.1)	OZ/USIMIS	2	222		reser					
□ NEL		□ Other		On Ice: # of Coolers:	Yes	□ No	E I	SRC	les/	2 2		letais	r r	0	ج اج					
	(Type)				(including CF): ()	5-0=0.5	MTBE	15D(C	esticic	ethoc	200	Dr Mer	() () () () () ()	-ime	oliforn					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PARIS BY 6310 OF	CI E Br NO	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)					
8/10/22	1205	S	PH03 @ 0.5'	2 oz N/A (O)																
8/10/22	1220	S	PH03 @ 4'	2 oz	N/A	007	M													
					,				_		1	\perp			_		Ш	\perp	\perp	
_								_	_	_	+	+	_	1				\perp	\perp	
								_	_	+	+	+	+	\vdash	+	-	\vdash	\dashv	+	_
							\vdash	\dashv	+	+	+	+	+	+	+	\vdash	\vdash	+	+	_
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Date:	Time:	Relinquishe	ed by:	Received by:	Via:	Date Time	Ren	narks	s:							لــــــــــــــــــــــــــــــــــــــ				
8/11/22	1210	Liz Ch		acun	uin	8/11/22 1210			y Cod to Lu							5010	AFE:	3000)91	
Date:	Time:	Relinquishe	ed by:	Received by:	Via:	Date Time	jher									ı.com	for re	eporti	ng re	eceipts
<u>"IU</u>	f necessary,	samples sub	mitted to Hall Environmental may be subc	ontracted to other a	ccredited laboratorie	es. This serves as notice of this	D s possil	bility.	Any sub	o-contra	acted	data v	rill be cl	early	notated	d on the	e analy	tical re	port.	



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

August 18, 2022

Ben Belill Lucid Energy 201 South 4th St. Artesia, NM 88210

TEL: (575) 513-8988

FAX:

RE: Graham Lateral 8 Inch Pipeline OrderNo.: 2208817

Dear Ben Belill:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/12/2022 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

ands

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2208817**Date Reported: **8/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: FS01@4'

Project:Graham Lateral 8 Inch PipelineCollection Date: 8/10/2022 9:05:00 AMLab ID:2208817-001Matrix: SOILReceived Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	28	14	mg/Kg	1	8/15/2022 7:58:08 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/15/2022 7:58:08 PM
Surr: DNOP	97.7	21-129	%Rec	1	8/15/2022 7:58:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/16/2022 12:31:44 PM
Surr: BFB	81.0	37.7-212	%Rec	1	8/16/2022 12:31:44 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	8/16/2022 12:31:44 PM
Toluene	ND	0.048	mg/Kg	1	8/16/2022 12:31:44 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/16/2022 12:31:44 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/16/2022 12:31:44 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/16/2022 12:31:44 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	240	59	mg/Kg	20	8/16/2022 1:20:39 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

Page 1 of 13

Lab Order **2208817**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/18/2022

CLIENT: Lucid Energy Client Sample ID: FS02@4'

Project: Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 9:10:00 AM

 Lab ID: 2208817-002
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/15/2022 8:13:51 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/15/2022 8:13:51 PM
Surr: DNOP	98.9	21-129	%Rec	1	8/15/2022 8:13:51 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/16/2022 1:33:05 AM
EPA METHOD 8260B: VOLATILES SHORT L	LIST				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/16/2022 12:49:51 PM
Toluene	ND	0.050	mg/Kg	1	8/16/2022 12:49:51 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/16/2022 12:49:51 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/16/2022 12:49:51 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	8/16/2022 12:49:51 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/16/2022 12:49:51 PM
Surr: Dibromofluoromethane	124	70-130	%Rec	1	8/16/2022 12:49:51 PM
Surr: Toluene-d8	98.9	70-130	%Rec	1	8/16/2022 12:49:51 PM
EPA METHOD 8015D MOD: GASOLINE RAM	NGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/16/2022 12:49:51 PM
Surr: BFB	115	70-130	%Rec	1	8/16/2022 12:49:51 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

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Lab Order 2208817

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/18/2022

CLIENT: Lucid Energy Client Sample ID: FS03@1'

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 9:45:00 AM

 Lab ID:
 2208817-003
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/15/2022 8:29:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/15/2022 8:29:44 PM
Surr: DNOP	97.6	21-129	%Rec	1	8/15/2022 8:29:44 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	160	60	mg/Kg	20	8/16/2022 1:45:30 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/16/2022 1:18:40 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 1:18:40 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 1:18:40 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/16/2022 1:18:40 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	8/16/2022 1:18:40 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/16/2022 1:18:40 PM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	8/16/2022 1:18:40 PM
Surr: Toluene-d8	96.5	70-130	%Rec	1	8/16/2022 1:18:40 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2022 1:18:40 PM
Surr: BFB	114	70-130	%Rec	1	8/16/2022 1:18:40 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

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2208817-004

Lab ID:

Analytical Report

Lab Order **2208817**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/18/2022

Received Date: 8/12/2022 7:20:00 AM

CLIENT: Lucid Energy Client Sample ID: SW01@0-4'

Matrix: SOIL

Project: Graham Lateral 8 Inch Pipeline **Collection Date:** 8/10/2022 9:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/15/2022 8:45:10 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/15/2022 8:45:10 PM Surr: DNOP 99.5 21-129 %Rec 1 8/15/2022 8:45:10 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 140 60 8/16/2022 1:57:55 AM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.024 8/16/2022 1:47:27 PM mg/Kg 1 Toluene ND 8/16/2022 1:47:27 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 1:47:27 PM Xylenes, Total ND 0.096 mg/Kg 1 8/16/2022 1:47:27 PM Surr: 1,2-Dichloroethane-d4 105 70-130 %Rec 8/16/2022 1:47:27 PM 1 Surr: 4-Bromofluorobenzene 107 70-130 %Rec 1 8/16/2022 1:47:27 PM Surr: Dibromofluoromethane 125 70-130 %Rec 1 8/16/2022 1:47:27 PM Surr: Toluene-d8 99.1 70-130 %Rec 1 8/16/2022 1:47:27 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 8/16/2022 1:47:27 PM 4 8 1 Surr: BFB 120 70-130 %Rec 1 8/16/2022 1:47:27 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

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Lab Order 2208817

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Client Sample ID: SW02@0-4'

Project: Graham Lateral 8 Inch Pipeline **Collection Date:** 8/10/2022 10:00:00 AM

Lab ID: 2208817-005 **Matrix:** SOIL **Received Date:** 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/15/2022 9:00:37 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/15/2022 9:00:37 PM
Surr: DNOP	97.2	21-129	%Rec	1	8/15/2022 9:00:37 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	120	60	mg/Kg	20	8/16/2022 2:10:20 AM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/16/2022 2:16:10 PM
Toluene	ND	0.047	mg/Kg	1	8/16/2022 2:16:10 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2022 2:16:10 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/16/2022 2:16:10 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	8/16/2022 2:16:10 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/16/2022 2:16:10 PM
Surr: Dibromofluoromethane	120	70-130	%Rec	1	8/16/2022 2:16:10 PM
Surr: Toluene-d8	99.4	70-130	%Rec	1	8/16/2022 2:16:10 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2022 2:16:10 PM
Surr: BFB	115	70-130	%Rec	1	8/16/2022 2:16:10 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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

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Lab Order 2208817

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/18/2022

CLIENT: Lucid Energy Client Sample ID: SW03@0-1

 Project:
 Graham Lateral 8 Inch Pipeline
 Collection Date: 8/10/2022 10:45:00 AM

 Lab ID:
 2208817-006
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/15/2022 9:16:14 PM Motor Oil Range Organics (MRO) ND 51 mg/Kg 1 8/15/2022 9:16:14 PM Surr: DNOP 99.0 21-129 %Rec 1 8/15/2022 9:16:14 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 300 60 8/16/2022 2:22:45 AM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM 0.024 8/16/2022 2:44:55 PM ND mg/Kg 1 Toluene ND 8/16/2022 2:44:55 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 2:44:55 PM Xylenes, Total ND 0.095 mg/Kg 1 8/16/2022 2:44:55 PM Surr: 1,2-Dichloroethane-d4 106 70-130 %Rec 8/16/2022 2:44:55 PM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/16/2022 2:44:55 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/16/2022 2:44:55 PM Surr: Toluene-d8 101 70-130 %Rec 1 8/16/2022 2:44:55 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 8/16/2022 2:44:55 PM 4 8 1

120

70-130

%Rec

1

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

Qualifiers:

Surr: BFB

- 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

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8/16/2022 2:44:55 PM

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208817**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: MB-69517 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69517 RunNo: 90295

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220797 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69517 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69517 RunNo: 90295

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220798 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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

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Hall Environmental Analysis Laboratory, Inc.

3.6

5.000

WO#: **2208817**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Project: Graham	Lateral 8 Inch Pipeline								
Sample ID: MB-69506	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 69506	RunNo: 90276							
Prep Date: 8/15/2022	Analysis Date: 8/15/2022	SeqNo: 3221135 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	9.3 10.00	93.0 21 129							
Sample ID: LCS-69506	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS Batch ID: 69506 RunNo: 90276									
Prep Date: 8/15/2022	Analysis Date: 8/15/2022	SeqNo: 3221136 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	51 15 50.00	0 102 64.4 127							
Surr: DNOP	4.3 5.000	86.6 21 129							
Sample ID: MB-69521	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 69521	RunNo: 90276							
Prep Date: 8/16/2022	Analysis Date: 8/16/2022	SeqNo: 3221703 Units: %Rec							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							
Surr: DNOP	8.8 10.00	87.7 21 129							
Sample ID: LCS-69521	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 69521	RunNo: 90276							
Prep Date: 8/16/2022	Analysis Date: 8/16/2022	SeqNo: 3221704 Units: %Rec							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual							

Qualifiers:

Surr: DNOP

- 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

72.9

21

129

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

Page 8 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208817** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: Ics-69502 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221186 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 26 5.0 25.00 0 104 72.3 137 Surr: BFB 2200 1000 219 37.7 212 S

Sample ID: mb-69502 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 69502 RunNo: 90302

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221188 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 102 37.7 212

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208817** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Troject. Granai	ii Laterai 8 ilicii Fipeili								
Sample ID: Ics-69502	SampType: LCS		Tes	tCode: EP	A Method	8021B: Volatile	es		
Client ID: LCSS	Batch ID: 69502		F	RunNo: 90	302				
Prep Date: 8/15/2022	Analysis Date: 8/16/2	2022	5	SeqNo: 32	221187	Units: mg/Kg	3		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90 0.025	1.000	0	90.1	80	120			
Toluene	0.92 0.050	1.000	0	92.5	80	120			
Ethylbenzene	0.94 0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8 0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	0.99	1.000		98.5	70	130			
Sample ID: mb-69502	mple ID: mb-69502 SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 69502 RunNo: 90302								
Prep Date: 8/15/2022	Analysis Date: 8/16/2	2022	5	SeqNo: 32	221192	Units: mg/Kg)		
Analyte	Result PQL S	PK 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	0.99	1.000		98.8	70	130			
Sample ID: mb-69518	SampType: MBLK		Tes	tCode: EP	A Method	8021B: Volatile	es		
Client ID: PBS	Batch ID: 69518		F	RunNo: 90	310				
Prep Date: 8/15/2022	Analysis Date: 8/16/2	2022	9	SeqNo: 32	222136	Units: %Rec			
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		105	70	130			
Sample ID: LCS-69518	SampType: LCS		Tes	tCode: EP	A Method	8021B: Volatile	es		
Client ID: LCSS	Batch ID: 69518		F	RunNo: 90	310				
Prep Date: 8/15/2022	Analysis Date: 8/16/2	2022	S	SeqNo: 32	222137	Units: %Rec			
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1	1.000		108	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208817**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: 2208817-003ams	Samp1	ype: MS	64	Tes	d 8260B: Volatiles Short List						
Client ID: FS03@1'	Batcl	n ID: 695	509	F	RunNo: 90						
Prep Date: 8/15/2022	Analysis [Date: 8/1	16/2022	5	SeqNo: 32	222178	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.024	0.9681	0	96.1	75.8	123				
Toluene	0.90	0.048	0.9681	0	92.9	68.3	130				
Ethylbenzene	0.89	0.048	0.9681	0	92.1	76.6	132				
Xylenes, Total	2.8	0.097	2.904	0	97.1	74.7	132				
Surr: 1,2-Dichloroethane-d4	0.53		0.4840		110	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.4840		104	70	130				
Surr: Dibromofluoromethane	0.59		0.4840		122	70	130				
Surr: Toluene-d8	0.48		0.4840		99.2	70	130				

Sample ID: 2208817-003amsd	Samp	Type: MS	D4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: FS03@1'	Batc	h ID: 695	509	F	RunNo: 90	0315				
Prep Date: 8/15/2022	Analysis I	Date: 8/	16/2022	5	SeqNo: 32	222179	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9756	0	96.8	75.8	123	1.54	20	
Toluene	0.87	0.049	0.9756	0	89.6	68.3	130	2.83	20	
Ethylbenzene	0.88	0.049	0.9756	0	90.1	76.6	132	1.44	20	
Xylenes, Total	2.8	0.098	2.927	0	94.5	74.7	132	1.93	20	
Surr: 1,2-Dichloroethane-d4	0.53		0.4878		108	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.49		0.4878		101	70	130	0	0	
Surr: Dibromofluoromethane	0.59		0.4878		120	70	130	0	0	
Surr: Toluene-d8	0.47		0.4878		96.9	70	130	0	0	

Sample ID: Ics-69509	Samp	Гуре: LC :	S4	Tes	8260B: Volatiles Short List								
Client ID: BatchQC	Batcl	Batch ID: 69509 RunNo: 90315											
Prep Date: 8/15/2022	Analysis [Date: 8/1	16/2022	5	SeqNo: 32	222198	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.96	0.025	1.000	0	96.1	80	120						
Toluene	0.94	0.050	1.000	0	93.5	80	120						
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120						
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120						
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130						
Surr: 4-Bromofluorobenzene	0.53		0.5000		107	70	130						
Surr: Dibromofluoromethane	0.60		0.5000		120	70	130						
Surr: Toluene-d8	0.50		0.5000		99.2	70	130						

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208817** *18-Aug-22*

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: mb-69509	SampT	уре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 69509			F	RunNo: 90	315						
Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	SeqNo: 3222199			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	0.52		0.5000		104	70	130					
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130					
Surr: Dibromofluoromethane	0.60		0.5000		120	70	130					
Surr: Toluene-d8	0.50		0.5000		99.7	70	130					

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

24

5.0

WO#: **2208817**

18-Aug-22

Client: Lucid Energy

Project: Graham Lateral 8 Inch Pipeline

Sample ID: 2208817-002ams	SampT	SampType: MS TestCode: EPA Method 8015D Mod							ange			
Client ID: FS02@4'	Batch	n ID: 69	509	F	RunNo: 90	0315						
Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	5	SeqNo: 32	222203	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	24	5.0	24.95	0	95.3	65.9	123					
Surr: BFB	530		499.0		105	70	130					
Sample ID: 2208817-002amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range												
Client ID: FS02@4'	Batch	Batch ID: 69509 RunNo: 90315										
Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	5	SeqNo: 32	222204	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	24	4.9	24.65	0	99.4	65.9	123	3.00	20			
Surr: BFB	540		493.1		110	70	130	0	0			
Sample ID: Ics-69509	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline R	ange			
Client ID: LCSS	Batch	n ID: 69	509	F	RunNo: 90	0315						
Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	5	SeqNo: 32	22224	Units: mg/k	(g				
Analyte	Result	PQL										

Surr: BFB	580	500.0		115	70	130			
Sample ID: mb-69509	8015D Mod: (Gasoline R	Range						
Client ID: PBS	Batch ID: 69509 RunNo: 90315								
Prep Date: 8/15/2022	Analysis Date:	8/16/2022	(SeqNo: 32	22225	Units: mg/K	(g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5	.0							

0

95.1

70

130

Gasoline Range Organics (GRO)	ND	5.0				
Surr: BFB	590		500.0	118	70	130

25.00

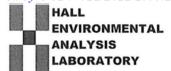
Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Gasoline Range Organics (GRO)

- 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

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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

CI	ient Name:	Lucid Ener	gy	Work	Order Numb	per: 2208817	7	RcptNo:	1
Re	ceived By:	Juan Roja	as	8/12/202	22 7:20:00 A	ΛM	Grana g		
Co	mpleted By:	Tracy Cas	sarrubias	8/12/202	22 9:07:10 A	ΑM			
Re	viewed By:		8/12/22						
<u>Ch</u>	ain of Cus	stody							
1.	ls Chain of C	Custody comp	lete?			Yes 🗸	No 🗌	Not Present	
2.	How was the	sample deliv	vered?			Courier			
	o <u>g In</u> Was an atter	mpt made to d	cool the samp	oles?		Yes 🗸	No 🗆	NA 🗆	
4. \	Nere all sam	ples received	l at a tempera	ature of >0° C t	o 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5.	Sample(s) in	proper conta	iner(s)?			Yes 🗸	No 🗆		
6. \$	Sufficient sar	nple volume f	or indicated t	est(s)?		Yes 🗸	No 🗆		
7.	Are samples	(except VOA	and ONG) pr	operly preserve	ed?	Yes 🗹	No 🗆		
8. \	Was preserva	ative added to	bottles?			Yes	No 🗸	NA 🗆	
9. F	Received at I	east 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes	No 🗌	NA 🗸	
10.	Were any sa	mple containe	ers received l	oroken?		Yes	No 🗸	# of preserved	
		ork match bo		/)		Yes 🗸	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
12.	Are matrices	correctly iden	tified on Cha	in of Custody?		Yes 🗸	No 🗆	Adjusted?	
13. I	s it clear wha	at analyses w	ere requested	d?		Yes 🗸	No 🗆		110/02
		ing times able)		Yes 🗸	No 🗆	Checked by:	IN 8115155
Spe	cial Hand	ling (if app	olicable)						
15.	Was client n	otified of all d	iscrepancies	with this order?	•	Yes	No 🗆	NA 🗸	
	Persor	Notified:		***************************************	Date:				
	By Wh	om:		Comments of the same and the same and	Via:	eMail	☐ Phone ☐ Fax	☐ In Person	
	Regard	ding: Instructions:							
16.	Additional re		J						
17.	Cooler Info		Condition	Seal Intact	Seal No	Seal Date	Signed By		
	1	0.5	Good	Yes	Geal NO	Geal Date	Signed By		

Chain-of-Custody Record				Turn-Around	rime.					R-	AL		E	INI N	<i>/</i> TI	20	NI	AE		CAI	1
Client:	Michael	Gant - Lu	cid Energy Group - Delaware			50ay											30				
				Project Name			_				ww	w.ha	llen	viror	nme	ntal.d	com				
Mailing	Address		00 McKisson St. #800	Graham Lateral 8" Pipeline				4901 Hawkins NE - Albuquerque, NM 87109													
		Dallas,	d by OCD: 9/21/2022 2:44:22 TX 75201	Project #:				Tel. 505-345-3975 Fax 505-345-4107													
Phone	#:314-33	30-7876		□03A2013008								A	nal	ysis	Re	ques	t				
email o	r Fax#:n	ngant@lud	cid-energy.com	Project Mana	nger:		=	6					SO4	Г		rf)		T	T	T	\top
QA/QC	Package:			Ben Belill			(8021)	/MRO)	PCB's		MS					pse		- 1			- 1
□ Stan	ndard		☐ Level 4 (Full Validation)		-		S	DRO/			8270SIMS		PO4,			sent/Absent)					
	itation:	□ Az Co	mpliance	Sampler: LC			TMB	/ DF	Pesticides/8082	1 .1	827		NO ₂ ,		_	ese					
□ NEL	v	□ Other		On Ice:	☐ Yes	□ No	E/	RO	es/8	504	o (S			8	P.					
	(Type)			# of Coolers:	THE RESIDENCE OF THE PROPERTY	F	MTBE	9)C	icide	Б	3310	Metals	NO ₃ ,	7	<u>-</u>	orm					
				Cooler Temp	(including CF):	2-0-20-5	_	115	est	Met	by 8	8 N	ъ́,	9	Sen	Solif					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2208817	BTEX	TPH:8015D(GRO	8081 F	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8	CI, F,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Pre					
8/10/22	905	S	FS01 @ 4'	2 oz	N/A	001		611													
8/10/22	910	S	FS02 @ 4'	2 oz	N/A	002															
8/10/22	945	S	FS03 @ 1'	2 oz	N/A	003							53						\top		
8/10/22	920	S	SW01 @ 0-4'	2 oz	N/A	004															
8/10/22	1000	S	SW02 @ 0-4'	2 oz	N/A	005															
8/10/22	1045	S	SW03 @ 0-1'	2 oz	N/A	006															
																			\perp	\perp	
Date:	Time:	Relinquishe		Received by:	Via:	Date Time	Ren														
8/11/22	Ti	Liz Ch		Dam	up	8/11/22 1210			y Co I to L							5225	010 A	AFE:	3000	191	
Date:	Time: 1900	Relinquishe		Received by:	Via:	Date Time										olum.	com f	for re	porti	ng re	eceipts
		acur.	mitted to Hall Environmental may be subc	antenated to all	COURTE	v 8/12/22 7:20	P	hilih.	A			al alci		h = =1-	- 4	-1-1- 1					
	i riccessary,	Jampies sub	milled to Hall Environmental may be subc	ormacied to other a	coreciled laboratorie	ss. This serves as notice of this	possi	bility.	Any St	ub-coi	itracte	ea aat	a Will	ne cle	апу п	otated	on the	analyt	cai re	port.	



APPENDIX G

Approved Extension Request

Joseph Hernandez

From: Nobui, Jennifer, EMNRD < Jennifer.Nobui@state.nm.us>

Sent: Friday, August 19, 2022 10:03 AM

To: Joseph Hernandez; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD; Bratcher, Mike, EMNRD

Cc: Gant, Michael; Ben Belill

Subject: RE: [EXTERNAL] Extension Request - Targa Resources - Graham Lateral 8-inch Pipeline Release -

nAPP2215251908

[**EXTERNAL EMAIL**]

Hello Joseph

Your request for an extension to **September 22nd, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Thanks

Jennifer Nobui

From: Joseph Hernandez < jhernandez@ensolum.com>

Sent: Friday, August 19, 2022 6:54 AM

To: Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@state.nm.us>; Hamlet, Robert, EMNRD

<Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Velez, Nelson, EMNRD

<Nelson.Velez@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Enviro, OCD, EMNRD

<OCD.Enviro@state.nm.us>

Cc: Gant, Michael <mgant@targaresources.com>; Ben Belill <bbelill@ensolum.com>

Subject: [EXTERNAL] Extension Request - Targa Resources - Graham Lateral 8-inch Pipeline Release - nAPP2215251908

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Targa Resources (Targa) is requesting an extension to the current deadline for a closure report required in 19.15.29.12.B.(1) NMAC at the Graham Lateral 8-inch Pipeline Release. A release of natural gas and pipeline liquids was discovered on May 25, 2022 and was assigned Incident Number nAPP2215251908. Due to the release impacting areas off pad, a Right of Entry (ROE) Request was submitted to the State Land Office (SLO) on July 12, 2022, and subsequently approved on July 27, 2022. Final confirmation laboratory results were received on August 17, 2022 and indicate remediation is complete. To provide enough time for a completion of a closure report, Targa requests an extension of the deadline to **September 22, 2022**.

It should be noted, the original responsible party for the release was Lucid Energy Delaware, LLC (Lucid OGRID # 372422). Lucid and the Site have been acquired by Targa following the release. As a result, remedial actions were initiated by Lucid and completed by Targa.

Thank you,





APPENDIX H

Signed C141 Closure Request

Received by OCD: 9/21/2022	2:44:22 PM
Form C-141	State of New Mexico
Page 6	Oil Conservation Division

	Page 100 of 10	<i>01</i>
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 it	tems must be included in the closure report.
	-
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☑ Description of remediation activities	
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	ntions. The responsible party acknowledges they must substantially inditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. Title: Environmental Compliance Manager
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date: _ 09/26/2022
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

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 144450

CONDITIONS

Operator:	OGRID:
LUCID ENERGY DELAWARE, LLC	372422
201 S. Fourth Street	Action Number:
Artesia, NM 88210	144450
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/26/2022