

Lucid Energy Delaware

Pauline 8" Poly Line Release

Sec 28, T23S, R31E

Eddy County, New Mexico

August 24, 2017

Location

The leak occurred on an 8" Poly gas line in the north half of Sec 28, T23S, R31E. The leak is located along the pipeline ROW and is not associated with any individual facility.

Introduction

In January 2017, Lucid Energy Delaware, L.L.C. (Lucid) personnel were conducting a leak survey of the "Bootleg Ridge" gas system. During the survey an area of little to no vegetative growth was discovered, possibly indicating a pipeline leak. An RMLD gas detection device was used to confirm the presence of hydrocarbon vapors, resulting from a gas leak. The area was located directly over the intersection of five pipelines, three belonging to DCP Midstream, one belonging to EOG Resources, and one belonging to Lucid. Lucid excavated our line to determine the source of the leak, which ended up being a buried flange on the 8" poly line.

The failed flange resulted in a leak of an undetermined amount of gas, and no detectable liquids. The soil around the leak displayed minor amounts of discoloration and hydrocarbon odor. Soil samples were collected from the open excavation, and show detectable contamination only in the soil immediately surrounding the flange. Based on field observation, and soil samples, we suspect an affected area of no more than 20' L x 10' W.

Site Ranking

Based on the *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, August 13, 1993), hereafter referred to as "the Guidelines", the site ranking criteria are as follows.

Depth to Ground Water: The nearest well on record is C-02954 EXPL, does not record any information regarding the depth to groundwater. Well records for this township show an average depth to groundwater of 232'. Exhibiting a depth to groundwater of greater than 100' results in a site ranking of 0.

Wellhead Protection Area: The nearest water well is C-02954 EXPL, is located 4,300' to the northwest of the site. According to the *Guidelines*, not being within 1000 feet of a water source results in a site ranking of 0.

Distance to Surface Water Body: The nearest surface water body is the Salt Lake, located 12 miles to the west of the site, resulting in a site ranking of 0.

Total Site Ranking:

Wellhead Protection Area	0
Distance to Surface Water Body	0
Total:	0

Recommended Remediation Action Level

According to the *Guidelines*, a location with a site ranking of 0 is subject to the following Recommended Remediation Action Level (RRAL).

Benzene 10 ppm

BTEX 50 ppm

TPH 5000 ppm

There are no standards set for chloride contamination set within the *Guidelines*. If chlorides are determined to be present, Lucid will work with the District I Oil Conservation office to determine an appropriate action level, and will attempt to delineate to 1000 ppm chlorides in accordance with standard Bureau of Land Management work practice.

Proposed Remediation Work

Lucid will excavate the material most affected, immediately around the leaking flange to be disposed of at an NMOCD approved facility. Soil samples will be collected from the sidewalls and floors of the excavation to confirm that RRALs have been met. Soil appearing to be less affected will be sampled, and if below the RRALs will be used to back fill the excavation.

Update 8/24/2017: Excavation work has been conducted at the site. Soil sampling shows the area to exhibit contamination levels well below the RRAL for the site. As such Lucid is filing for closure of the release.

Any questions regarding this notification and proposed remediation plan can be directed to:

Kerry Egan

Environmental Compliance Coordinator

Lucid Energy Delaware

Office: (575) 810-6021

Cell: (575) 513-8988

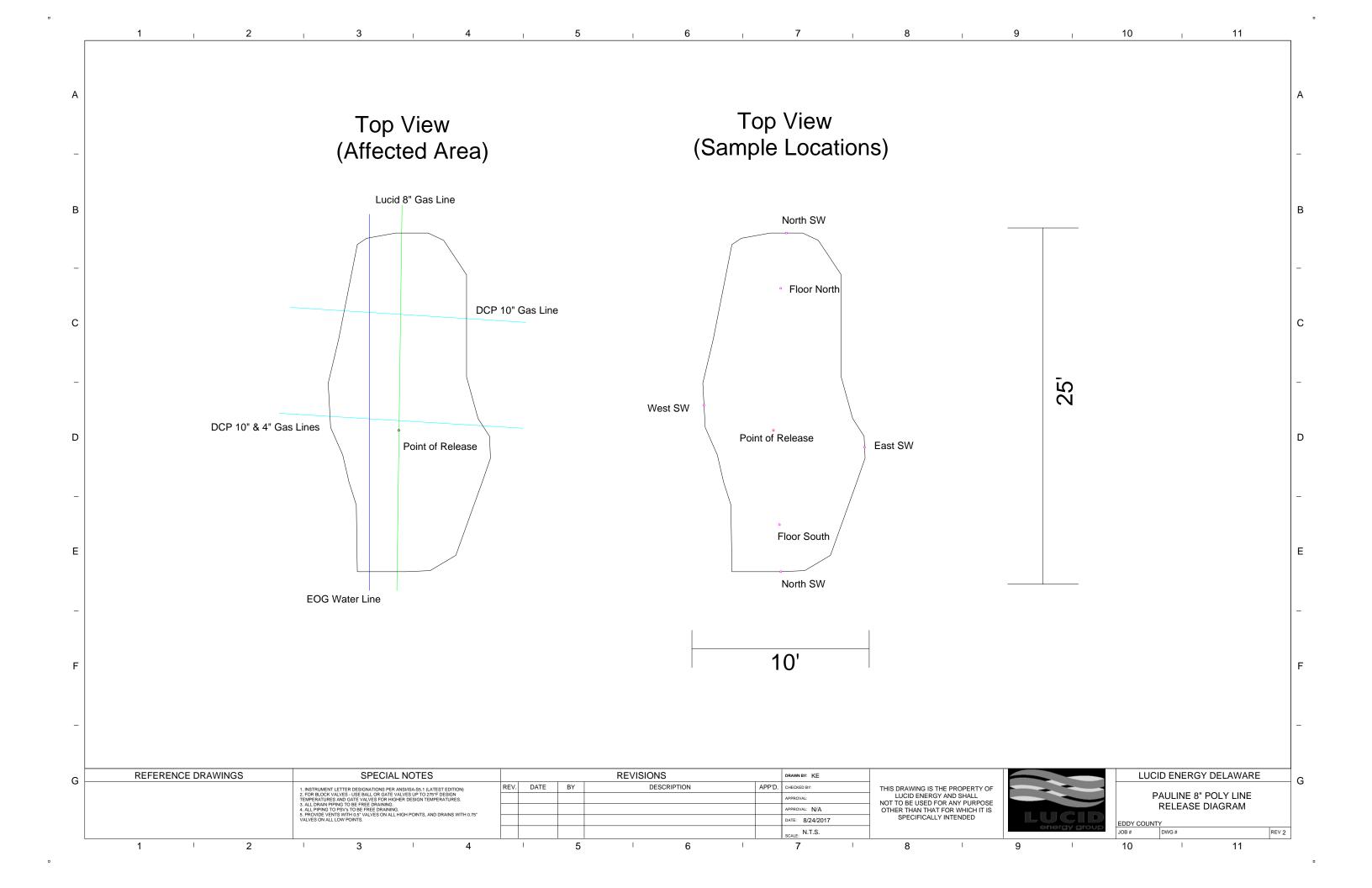
Kegan@lucid-energy.com

Sampling Summary for Pauline 8" Remediation Project

Analytical Report							
1708802	Sample Date	Description	BTEX	GRO	DRO	Cl-	Comments
1708802-001	8/12/2017	North Sidewall	ND	ND	14	47	Composite sample of the north sidewall from 0-4'.
1708802-002	8/12/2017	South Sidewall	ND	ND	ND	ND	Composite sample of the south sidewall from 0-4'.
1708802-003	8/12/2017	East Sidewall	ND	ND	ND	ND	Composite sample of the East sidewall from 0-4'.
1708802-004	8/12/2017	West Sidewall	ND	ND	72	41	Composite sample of the West sidewall from 0-4'.
1708802-005	8/12/2017	Floor North	ND	ND	ND	140	Sample of the excavation floor on the north end. At 4' depth.
1708802-006	8/12/2017	Floor South	ND	ND	ND	ND	Sample of the excavation floor on the north end. At 4' depth.
			C:+	o Panking: (<u> </u>		

Site Ranking: 0

RRAL for Benzene: 10 ppm RRAL for BTEX: 50 ppm RRAL for TPH: 5000 ppm No RRAL for Cl-





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

August 23, 2017

Kerry Egan Lucid Energy Delaware 326 West Quay St Artesia, NM 88210

TEL: (575) 513-8988

FAX

RE: Pauline 8" OrderNo.: 1708802

Dear Kerry Egan:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/12/2017 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 #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1708802

Date Reported: 8/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: North Sidewall

 Project:
 Pauline 8"
 Collection Date: 8/4/2017 8:00:00 AM

 Lab ID:
 1708802-001
 Matrix: SOIL
 Received Date: 8/12/2017 10:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	47	30	mg/Kg	20	8/22/2017 11:45:32 AN	1 33484
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	14	9.5	mg/Kg	1	8/17/2017 8:06:44 PM	33371
Surr: DNOP	110	70-130	%Rec	1	8/17/2017 8:06:44 PM	33371
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/16/2017 11:31:59 AM	1 33368
Surr: BFB	77.5	54-150	%Rec	1	8/16/2017 11:31:59 AM	1 33368
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	8/16/2017 11:31:59 AM	1 33368
Toluene	ND	0.046	mg/Kg	1	8/16/2017 11:31:59 AM	1 33368
Ethylbenzene	ND	0.046	mg/Kg	1	8/16/2017 11:31:59 AM	1 33368
Xylenes, Total	ND	0.091	mg/Kg	1	8/16/2017 11:31:59 AM	1 33368
Surr: 4-Bromofluorobenzene	107	66.6-132	%Rec	1	8/16/2017 11:31:59 AM	1 33368

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 10
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	D H ND	 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 	D Sample Diluted Due to Matrix E H Holding times for preparation or analysis exceeded J ND Not Detected at the Reporting Limit P PQL Practical Quanitative Limit RL

Lab Order 1708802

Date Reported: 8/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: South Sidewall

 Project:
 Pauline 8"
 Collection Date: 8/4/2017 8:00:00 AM

 Lab ID:
 1708802-002
 Matrix: SOIL
 Received Date: 8/12/2017 10:05:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: MRA
Chloride	ND	30	mg/Kg	20	8/22/2017 12:22:44 PM	1 33484
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS	S			Analys	:: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/16/2017 6:07:07 PM	33371
Surr: DNOP	107	70-130	%Rec	1	8/16/2017 6:07:07 PM	33371
EPA METHOD 8015D: GASOLINE RANG	E				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2017 12:43:50 PM	1 33368
Surr: BFB	77.5	54-150	%Rec	1	8/16/2017 12:43:50 PM	33368
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.023	mg/Kg	1	8/16/2017 12:43:50 PM	1 33368
Toluene	ND	0.047	mg/Kg	1	8/16/2017 12:43:50 PM	1 33368
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2017 12:43:50 PM	1 33368
Xylenes, Total	ND	0.093	mg/Kg	1	8/16/2017 12:43:50 PM	1 33368
Surr: 4-Bromofluorobenzene	107	66.6-132	%Rec	1	8/16/2017 12:43:50 PM	1 33368

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1708802**

Date Reported: 8/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: East Sidewall

 Project:
 Pauline 8"
 Collection Date: 8/4/2017 8:00:00 AM

 Lab ID:
 1708802-003
 Matrix: SOIL
 Received Date: 8/12/2017 10:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	30	mg/Kg	20	8/22/2017 12:35:09 P	M 33484
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analys	st: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/16/2017 6:29:34 PM	33371
Surr: DNOP	110	70-130	%Rec	1	8/16/2017 6:29:34 PM	33371
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/16/2017 1:55:50 PM	33368
Surr: BFB	82.2	54-150	%Rec	1	8/16/2017 1:55:50 PM	33368
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.024	mg/Kg	1	8/16/2017 1:55:50 PM	33368
Toluene	ND	0.048	mg/Kg	1	8/16/2017 1:55:50 PM	33368
Ethylbenzene	ND	0.048	mg/Kg	1	8/16/2017 1:55:50 PM	33368
Xylenes, Total	ND	0.096	mg/Kg	1	8/16/2017 1:55:50 PM	33368
Surr: 4-Bromofluorobenzene	112	66.6-132	%Rec	1	8/16/2017 1:55:50 PM	33368

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1708802**

Date Reported: 8/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: West Sidewall

 Project:
 Pauline 8"
 Collection Date: 8/4/2017 8:00:00 AM

 Lab ID:
 1708802-004
 Matrix: SOIL
 Received Date: 8/12/2017 10:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	41	30	mg/Kg	20	8/22/2017 12:47:34 PI	M 33484
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analys	st: TOM
Diesel Range Organics (DRO)	72	10	mg/Kg	1	8/17/2017 9:13:31 PM	33371
Surr: DNOP	109	70-130	%Rec	1	8/17/2017 9:13:31 PM	33371
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/16/2017 2:19:49 PM	33368
Surr: BFB	79.3	54-150	%Rec	1	8/16/2017 2:19:49 PM	33368
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.023	mg/Kg	1	8/16/2017 2:19:49 PM	33368
Toluene	ND	0.046	mg/Kg	1	8/16/2017 2:19:49 PM	33368
Ethylbenzene	ND	0.046	mg/Kg	1	8/16/2017 2:19:49 PM	33368
Xylenes, Total	ND	0.093	mg/Kg	1	8/16/2017 2:19:49 PM	33368
Surr: 4-Bromofluorobenzene	110	66.6-132	%Rec	1	8/16/2017 2:19:49 PM	33368

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1708802

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/23/2017

CLIENT: Lucid Energy Delaware Client Sample ID: Floor-North

 Project:
 Pauline 8"
 Collection Date: 8/4/2017 8:00:00 AM

 Lab ID:
 1708802-005
 Matrix: SOIL
 Received Date: 8/12/2017 10:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	140	30	mg/Kg	20	8/22/2017 1:24:48 PM	33484
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	3			Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	8/16/2017 7:14:11 PM	33371
Surr: DNOP	104	70-130	%Rec	1	8/16/2017 7:14:11 PM	33371
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/16/2017 2:43:47 PM	33368
Surr: BFB	78.4	54-150	%Rec	1	8/16/2017 2:43:47 PM	33368
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	8/16/2017 2:43:47 PM	33368
Toluene	ND	0.050	mg/Kg	1	8/16/2017 2:43:47 PM	33368
Ethylbenzene	ND	0.050	mg/Kg	1	8/16/2017 2:43:47 PM	33368
Xylenes, Total	ND	0.099	mg/Kg	1	8/16/2017 2:43:47 PM	33368
Surr: 4-Bromofluorobenzene	109	66.6-132	%Rec	1	8/16/2017 2:43:47 PM	33368

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1708802

Date Reported: 8/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: Floor-South

 Project:
 Pauline 8"
 Collection Date: 8/4/2017 8:00:00 AM

 Lab ID:
 1708802-006
 Matrix: SOIL
 Received Date: 8/12/2017 10:05:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: MRA
Chloride	ND	30	mg/Kg	20	8/22/2017 1:37:13 PM	33484
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	:: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/16/2017 7:36:41 PM	33371
Surr: DNOP	102	70-130	%Rec	1	8/16/2017 7:36:41 PM	33371
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/16/2017 3:07:47 PM	33368
Surr: BFB	86.0	54-150	%Rec	1	8/16/2017 3:07:47 PM	33368
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.023	mg/Kg	1	8/16/2017 3:07:47 PM	33368
Toluene	ND	0.046	mg/Kg	1	8/16/2017 3:07:47 PM	33368
Ethylbenzene	ND	0.046	mg/Kg	1	8/16/2017 3:07:47 PM	33368
Xylenes, Total	ND	0.093	mg/Kg	1	8/16/2017 3:07:47 PM	33368
Surr: 4-Bromofluorobenzene	116	66.6-132	%Rec	1	8/16/2017 3:07:47 PM	33368

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 10
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1708802**

23-Aug-17

Client: Lucid Energy Delaware

Project: Pauline 8"

Sample ID MB-33484 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 33484 RunNo: 45131

Prep Date: 8/22/2017 Analysis Date: 8/22/2017 SeqNo: 1429509 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-33484 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 33484 RunNo: 45131

Prep Date: 8/22/2017 Analysis Date: 8/22/2017 SeqNo: 1429510 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.9 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708802

23-Aug-17

Client: Lucid Energy Delaware

Project: Pauline 8"

Sample ID MB-33371 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: 33371 RunNo: 44981

Prep Date: 8/15/2017 Analysis Date: 8/16/2017 SeqNo: 1423234 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Surr: DNOP 11 10.00 105 70 130

Sample ID LCS-33371 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 33371 RunNo: 44981

Analysis Date: 8/16/2017 SeqNo: 1423518 Prep Date: 8/15/2017 Units: mg/Kg

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

Diesel Range Organics (DRO) 47 10 50.00 94.2 73.2 114 Surr: DNOP 5.0 5.000 101 70 130

Sample ID 1708802-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **North Sidewall** Batch ID: 33371 RunNo: 45010

Prep Date: 8/15/2017 Analysis Date: 8/17/2017 SeqNo: 1425971 Units: mg/Kg

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

Diesel Range Organics (DRO) 58 47.76 14.08 92.5 55.8 122 Surr: DNOP 5.3 4.776 70 130 111

Sample ID 1708802-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: North Sidewall Batch ID: 33371 RunNo: 45010

Prep Date: 8/15/2017 Analysis Date: 8/17/2017 SeqNo: 1425972 Units: mg/Kg

%REC Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 61 9.9 49.50 14.08 95.0 55.8 122 4.76 20 Surr: DNOP 5.2 4.950 106 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 8 of 10

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708802

23-Aug-17

Client: Lucid Energy Delaware

Project: Pauline 8"

Sample ID MB-33368 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 33368 RunNo: 44983

Prep Date: 8/15/2017 Analysis Date: 8/16/2017 SeqNo: 1423807 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

1000 80.9 Surr: BFB 810 54 150

Sample ID LCS-33368 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 33368 RunNo: 44983

Analysis Date: 8/16/2017 SeqNo: 1423808 Prep Date: 8/15/2017 Units: mg/Kg

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

Gasoline Range Organics (GRO) 5.0 25.00 96.2 76.4 125 Surr: BFB 900 1000 90.4 54 150

Sample ID 1708802-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **South Sidewall** Batch ID: 33368 RunNo: 44983

Prep Date: 8/15/2017 Analysis Date: 8/16/2017 SeqNo: 1423816 Units: mg/Kg

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

Gasoline Range Organics (GRO) 26 24.34 107 77.8 128 Surr: BFB 880 973.7 90.7 54 150

Sample ID 1708802-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: South Sidewall Batch ID: 33368 RunNo: 44983

Analysis Date: 8/16/2017 Prep Date: 8/15/2017 SeqNo: 1423817 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 4.8 24.11 109 77.8 128 0.965 20 Λ Surr: BFB 850 964.3 88.6 54 150 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Page 9 of 10

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708802

23-Aug-17

Client: Lucid Energy Delaware

Project: Pauline 8"

Sample ID MB-33368 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 33368 RunNo: 44983

Prep Date: 8/15/2017 Analysis Date: 8/16/2017 SeqNo: 1423831 Units: mg/Kg

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

Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.1 1.000 111 66.6 132

Sample ID LCS-33368 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 33368 RunNo: 44983

Analysis Date: 8/16/2017 Prep Date: 8/15/2017 SeqNo: 1423832 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit 80 1.0 0.025 1.000 0 102 120 Benzene Toluene 1.0 0.050 1.000 0 103 80 120 Ethylbenzene 0.050 0 103 80 120 1.0 1.000 Xylenes, Total 3.1 0.10 3.000 0 104 80 120 117 Surr: 4-Bromofluorobenzene 1.2 1.000 66.6 132

Sample ID 1708802-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: North Sidewall Batch ID: 33368 RunNo: 44983

Prep Date: 8/15/2017	Analysis [Date: 8/	16/2017	S	SeqNo: 1	423837	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9653	0	116	80.9	132			
Toluene	1.2	0.048	0.9653	0	121	79.8	136			
Ethylbenzene	1.2	0.048	0.9653	0	124	79.4	140			
Xylenes, Total	3.6	0.097	2.896	0	125	78.5	142			
Surr: 4-Bromofluorobenzene	1.1		0.9653		115	66.6	132			

Sample ID 1708802-001AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: North Sidewall Batch ID: 33368 RunNo: 44983

Chefit ID. North Sidewall	Dato	11D. 33.	000	I.	ullino. 4	4903				
Prep Date: 8/15/2017	Analysis D	ate: 8/	16/2017	S	SeqNo: 1	423838	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9950	0	111	80.9	132	2.06	20	
Toluene	1.1	0.050	0.9950	0	114	79.8	136	2.75	20	
Ethylbenzene	1.2	0.050	0.9950	0	116	79.4	140	3.06	20	
Xylenes, Total	3.6	0.10	2.985	0	119	78.5	142	1.96	20	
Surr: 4-Bromofluorobenzene	1.1		0.9950		108	66.6	132	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RLReporting Detection Limit

Sample container temperature is out of limit as specified

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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

Client Nam	e: LUCID ENE	RGY DELAW	Work Order Numbe	er: 1708	302			RcptN	No: 1
Received B	sy: Andy Free	man	8/12/2017 10:05:00 A	AM.		andre			
Completed I	-		8/13/2017 4:36:29 Pt	vi		Adje			
•	y: IU 8/15	, -				, (
Chain of C	<u>Custody</u>								
1. Custody	seals intact on s	ample bottles?		Yes		No [Not Present 5	Ž
2. Is Chair	of Custody comp	lete?		Yes	✓	No [Not Present	
3. How wa	s the sample deliv	vered?		Cour	<u>ier</u>				
<u>Log In</u>									
4. Was an	attempt made to	cool the samples?	•	Yes	✓	No		NA [
5. Were al	I samples receive	d at a temperature	of >0° C to 6.0°C	Yes	V	No [NA [
6. Sample	(s) in proper conta	ainer(s)?		Yes	\checkmark	No			
7. Sufficier	nt sample volume	for indicated test(s	s)?	Yes	✓	No (
8. Are sam	nples (except VOA	and ONG) proper	ly preserved?	Yes	V	No [
9. Was pre	eservative added t	o bottles?		Yes		No E	✓	na [
10.VOA via	als have zero head	Ispace?		Yes		No [No VOA Vials	V
11. Were a	ny sample contair	ers received broke	en?	Yes		No	V	# of preserved	
12 Does no	aperwork match be	nttle lahele?		Yes		No (\neg	bottles checked for pH:	
	screpancies on ch			.03			_		<2 or >12 unless noted)
13. Are mat	rices correctly ide	ntified on Chain of	Custody?	Yes	\checkmark	No [Adjusted?	
14, Is it clea	ar what analyses v	vere requested?		Yes	✓	No (ן כ		
	I holding times ab otify customer for			Yes	✓	No (Checked b	y:
(,	,	,							
Special H	andling (if ap)	olicable)							
16, Was clie	ent notified of all d	liscrepancies with	this order?	Yes		No [NA [V
Pe	erson Notified:	***************************************	Date		NATIONAL PROPERTY.	***************************************	MIANKY		
В	y Whom:	(1905) 180 V 199 AN AND THE TOTAL ACCOUNTS THE SECOND STREET, THE SECO	Via:	eМ	ail 📋	Phone 🔲	Fax	In Person	
R	egarding:								•
CI	ient Instructions:								
17. Addition	nal remarks:								
	Information						,		
	er No Temp °C		eal Intact Seal No	Seal D	ate	Signed B	<u>y</u>		
[1	3.4	Good Ye	• · · · · · · · · · · · · · · · · · · ·				1		

O	hain	of-Cus	Chain-of-Custody Record	Turn-Around Time:	Time	(6)			_				Ì		į			
Client	Lucid E	Lucid Energy Delaware		□ Standard	N Rush	Rush Lura	_			HALL ENVIRONMENTAL ANALYSIS LABORATORY	Ц <u>х</u>	٧ <u>۲</u>	Y A		A E		4 &	
				Project Name:	180		0			www	www.hallenvironmental.com	ironm	antal.o	E		•	2	
Mailing,	Mailing Address:	1000	326 West Quay St.	Pauline 8"				4901	Haw	4901 Hawkins NE - Albuquerque, NM 87109	IA -	ndne	que, h	MM 87	109			
Artesia,	Artesia, NM 88210	0		Project #:				Ē	505-3	Tel. 505-345-3975	2	Fax 5(505-345-4107	5410	7			
Phone #	Phone #: (575) 513-8988	13-8988									Anal		edne	st				
email or Fax#:	Fax#:			Project Manager:	iger:		_		1100			_	L			_	L	
QA/QC Package: □ Standard	ackage: fard		□ Level 4 (Full Validation)	Kerry Egan					2010100			201-1012-0	S.B.O.d.					
Accreditation:	ation:			Sampler:	Kerry Egan				0000		(1		Z809					(1
O NELAP	J.	□ Other		On Ice:	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	ON O						0000	R / S	(A				N 10
□ EDD (Type)	(Type)			Sample Temperature:	perature: 3,	701			1000		-	1220	_					(Y e
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	TM + X3T8	TR + MT TPH Methor	TPH (Metho	EDB (Metho	310 (PNA 8 Me	O,7) anoinA	3081 Pestic 3081 Pestic	, -imə2) 07.28		111		selddu8 rik
8/4/17	8/4/17 8:00AM soil	soil	North sidewall		ice/cool	100-	-	1 0		100	-	-	+			\vdash		1
8/4/17	8/4/17 8:00AM soil	soil	South sidewall		ice/cool	-005	×	×				×				\vdash		
8/4/17	8/4/17 8:00AM soil	soil	East Sidewall		ice/cool	-003	×	×				×				H		
8/4/17	8/4/17 8:00AM soil	soil	West Sidewall		ice/cool	100-	×	×				×						
8/4/17	8/4/17 8:00AM soil	soil	Floor - North		ice/cool	-005	×	×				×						
8/4/17	8/4/17 8:00AM soil	soil	Floor - South		ice/cool	000-	×	×				×				- 7		
								+					+			-		
ř.								++	\perp							+	\Box	
Date:	Time:	Relinquished by:	ad by:	Received Py:		Date Time	Remi	-rks: F	- Gran	Remarks: Run BTEX, TPH, and Cl- analysis	PH, ar	능	analys], <u>s</u>	1	\dashv	7	
8/19/17	$\overline{}$		Lin		(8/10/17 1000												
D'ale	Time: /7.4)	New York	od Gr	Reived St.	M	8/12/17 1005												
		1)	1											l		l

iles 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.