

January 29, 2021

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

### RE: Closure Request Riverside ASS Incident Number nRM2019958440 Eddy County, New Mexico

Dear Mr. Bratcher:

Lucid Energy Group (Lucid) presents the following Closure Request detailing site assessment and soil sampling activities at the Riverside 8in. Line (Site) in Unit E, Section 15, Township 17 South, Range 27 East, in Eddy County, New Mexico under surface ownership of the Bureau of Land Management (BLM) (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil associated with a release of natural gas and pipeline liquids at the Site and subsequent excavation of impacted soil. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, Lucid is submitting this Closure Request. Lucid requests no further action that may contribute to compromising the safety of field personnel and integrity of sensitive subsurface pipelines during active operations. Listed below is a brief summation of the Site details in Table 1.

Table 1: Site a	nd Release information
Name	Riverside 8in. Line
Company	Lucid Artesia Company
Incident Number	nRM2019958440
Location	32.835193°, -104.273068°
Estimated Date of Release	6/19/2020
Date reported to NMOCD	7/14/2020
Landowner	Bureau of Land Management
Reported to	NMOCD District II and BLM
Source of Release	Pipeline
Released Material	Natural Gas/Condensate
Released Volume	~5 bbls
Recovered Volume	~5 bbls
Net Release	~0 bbls
Nearest Waterway	Intermittent stream ~1 mile north



Depth to Groundwater	Estimated to be >100'
Nearest Domestic Water source	Greater than 1000'
Lucid Activity Dates	12/16/19, 1/13/20, 2/26/20, 3/11/20

#### 1.0 RELEASE BACKGROUND

On June 19, 2020 Lucid operations personnel noticed pipeline liquids pooled at the surface along the Riverside 8" line. Approximately 5 barrels (Bbls) of pipeline liquids/condensate were released to the surrounding area. Due to the initial discovery yielding minimal volumes released at the surface Lucid delayed reporting this release. Once pipeline repair activities had exposed the affected pipeline soil staining and pipeline liquids were observed beneath the pipeline. Observed hydrocarbon staining and saturation was interpreted as historical releases along this pipeline. The unknown total volume loss over the lifetime of this pipeline, high karst potential, and regionally shallow groundwater necessitated the release notification. Lucid attentively reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on July 14, 2020 which was received and assigned Incident Number nRM2019958440 on July 17, 2020. The Form C-141 is provided as Appendix A.

### 2.0 SITE CHARACTERIZATION

Lucid characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data attained from the New Mexico Office of the State Engineer (NMOSE). The United States Geological Survey groundwater database showed no wells within an applicable proximity to the Site. The closest permitted groundwater wells with depth to groundwater data, RA-07844, RA-02966, and RA-07774, are located approximately 1 mile southwest of the Site near Riverside, NM and approximately 2 miles northwest and northeast, respectively. The Site is greater than 300 feet from any continuously flowing or significant watercourse. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake. The Site is greater than 300 feet from an occupied residence, school, hospital, institution, or church. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located greater than 300 feet from a wetland. The Site is located in a high-potential karst area. The surface soil geology of the Site is comprised mostly of the Reeves-Gypsum land-Cottonwood complex. The Reeves Gypsum complex is described as a shallow to moderately deep, reddish, fine-grained, loamy soil overlying massive gypsum beds. During excavation of the Site the Reeves-Gypsum complex was encountered at 0 to 4 feet bgs. The sub surface geology of the site is comprised of the Artesia Group, typically the Tansill formation. During the excavation alternating massive limestone beds with thinner laminations of gypsums beds and greyishgreen siltstone were encountered from to 4 feet to 16 feet bgs. The nearest identified groundwater wells



and potential receptors identified during site characterization are displayed in Figure 1. NMOSE groundwater data for surrounding wells is presented in Appendix C.

### 3.0 CLOSURE CRITERIA

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

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

### 4.0 INITIAL RESPONSE

During the response to the release, Lucid personnel scraped the surface of saturated soils in the immediate area. Due to surface geology and topography of the Site the liquids flowed slightly to the west following the pipeline right-of-way. The subject pipeline was repaired, and surface samples were collected by a Lucid EHSR technician. The locations of initial samples are presented on Figure 2 and laboratory analytical results are summarized in Table 2. The complete laboratory analytical report is included in Appendix D. Volume calculations are presented in Appendix E.

### 5.0 DELINEATION SOIL SAMPLING ACTIVITIES

On June 23, during pipeline repair activates, Lucid personnel conducted site investigative activities to evaluate the release extent and current conditions. Initial repair activities exposed the pipeline at approximately 4 feet bgs with total excavation depths at about 5 feet bgs. Surface staining from released pipeline liquids in the immediate release area was visually observed while heavier staining and saturation was observed in gypsum layers in between the massive limestone beds. Photographic documentation was conducted during the Site visit and a Photographic Log is included in Appendix B.

Lucid personnel conducted initial delineation activities to define the horizontal extent of the impacted area. Utilizing a hand trowel and/or shovel, two soil samples (B-1-C and SW-2-N-C) were collected within the repair excavation at saturated bottom and sidewall surfaces to verify the presence or absence of soil impacts. On July 14, Lucid EHSR personnel returned assess remaining surface staining and to collect sidewall and bottom soil samples (SW-1-N-C, SW-2-E-C, SW-3-S-C, SW-4-W-C, and B-5-C). On August 5, more thorough vertical and horizontal delineation of the Site began during initial remediation activities utilizing a hammer hoe and track hoe. Four test holes surrounding the current extents of the pipeline



repair excavation were excavated to 4 feet bgs (S-S-4, S-E-4, S-W-4, and S-N-4) were collected at approximately 4 feet bgs during initial remediation activities. Another soil sample (B-S-8) was collected from the bottom of the excavation at approximately 8 feet bgs. Sampled depths are approximations due to the lithology of the Tansill Formation and the safe accessibility of the excavation.

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

### 6.0 **REMEDIATION ACTIVITIES**

On August 5, Lucid personnel and SDR Services (SDR) began remedial excavation activities at the Site. In lieu of attaining a definitive groundwater depth via listed methods and lacking current groundwater information nearby, Lucid remediated the Site in conjunction with the strictest closure criteria relevant to groundwater depth of <50 feet bgs, listed in NMAC 19.15.29 Table 1. Consideration of the high-potential karst area also required adherence to the strictest closure criteria. The closest permitted groundwater wells with depth to groundwater data are located approximately 1 mile southwest of the Site and approximately 2 miles northwest and northeast, groundwater well data from NMOSE are listed in Appendix C.

During the initial remediation activities, the excavation bottom was expanded to a total depth of approximately 6-7 feet bgs. A trackhoe and hammer hoe were utilized to break through the massive limestone beds, leading to variable depths throughout the excavation. Sidewalls were also extended laterally approximately 2 feet. More saturated soil was observed in the excavation sidewalls, likely due to the reduced confining pressure of the massive limestone beds removed during pipeline repair activities. The excavation was left open for three weeks to allow for remaining VOCs to flash off and determine if more hydrocarbons would be released to the surface from the confining limestone and gypsum beds. A vertical test hole was extended to 8 feet bgs at the center of the excavation bottom and sample B-S-8 was collected. Sample B-S-8 analytical results indicated that hydrocarbons and chlorides were not present at the sample depth of 8 feet bgs.

On September 4, after receipt of analytical results Lucid personnel and SDR returned to the site to collect excavation bottom and sidewall samples with the intent of using analytical results for final confirmation of remediation activities. However, saturation was again observed at the bottom and north sidewall surfaces. The excavation was expanded to a total depth of approximately 8 feet bgs and the north sidewall was laterally extended approximately 3 feet to north until staining was no longer observable.



An initial thirteen composite soil samples were collected from multiple bottom and sidewall surfaces throughout the excavation and submitted to Hall for analysis. Analytical results reported chloride levels above 600 ppm for sidewall samples SW-11-C, SW-12-C, and SW-13-C. All bottom samples collected at 8 feet bgs reported TPH levels above 100 ppm (B-6-C, B-7-C, B-8-C, B-9-C, B-10-C). These results indicated chloride and hydrocarbon impacts were likely still present at greater depths, being slowly released from confining beds of limestone and gypsum. Chlorides were also still present in sidewall surfaces on the south side of the excavation.

During the week of October 19, Lucid personnel and SDR returned to continue secondary remedial activities and again delineate a new, clean vertical depth based on the most recent analytical results. The Lucid EHSR team had also recently received a MiniRAE 3000 photoionization detector (PID) and was now able to better screen for hydrocarbons. The bottom surface was excavated to a depth of approximately 16 feet bgs and the south section was laterally extended approximately 3 feet bgs. The east side of the excavation bottom was extended to approximately 10 feet bgs due to field screenings indicating no hydrocarbon nor chloride presence. Wooden skids were used in the east bottom section to provide support to the exposed pipeline. Bottom surface samples collected from the east side of the excavation at a depth of 10ft bgs, B-22-C and B35-C, confirm that no hydrocarbon nor chloride was present at that depth. Sidewall samples, SW-24-C, SW-25-C, SW-31-C, and SW-32-C were collected at various depths along the southern excavation sidewall to more accurately represent lithologic changes. PID field screenings of samples collected indicated that hydrocarbon levels had diminished significantly at 16 feet bgs throughout the remainder of the excavation. Chloride field screenings had also returned non detect readings. Due to the permeability and occurrence of the gypsum and siltstone stratification, hydrocarbons were restricted to these areas in between the larger limestone beds causing variable distribution and difficult detection of hydrocarbon and chloride impacts.

During the week of November 23, clean locally sourced backfill material was staged onsite. Final bottom confirmation samples (B-33-C, B-34-C, B-35-C, and B-36-C) were collected from the bottom surface of the excavation to confirm that all impacts had been remediated. Minimal surface staining observed on the north and west side of the excavation was removed using a backhoe to scrape the surface. During the week of November 30, the excavation was backfilled with local material. This site was backfilled due to safety concerns regarding the integrity of the exposed pipeline and the proximity of the excavation to the right-of-way (ROW) access road managed by the BLM. Impacted material stockpiled onsite from repair activities and recently excavated material was disposed of at Lea Land Industrial Solid Waste Landfill. Lucid plans to reseed the site once seasonal temperatures have increased sufficiently to allow for effective seed germination and revegetation. Site photographs are presented in Appendix B.

A total of eighteen final composite soil samples were collected throughout the excavation during the week of October 19. Composite soil samples were collected at <20' lateral intervals encompassing  $\leq$ 200 yd<sup>2</sup> of soil. Sidewall composite soil samples from the east section of the excavation were collected at depths between 2 and 10 feet bgs utilizing the trackhoe bucket to collect material. Sidewall composite soil samples from the excavation were collected at depths between 4 and 16 feet



bgs utilizing the trackhoe bucket to collect material. The locations of remediation samples are presented in Figure 3. Field screening was conducted for chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips and for hydrocarbon VOCs using a calibrated PID. The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4° C, under strict COC procedures, to Hall, for analysis of chloride following EPA Method 300.0. The complete laboratory analytical report is included in Appendix D. Additionally, photographic documentation from remediation activities is also included in Appendix B.

### 7.0 ANALYTICAL

All release area boundary sample locations analyzed for chloride concentrations yielded concentrations below the Closure Criteria. All other delineation grab samples indicated BTEX, TPH-GRO, TPH-DRO, and Total TPH concentrations below the applicable Closure Criteria. Hydrocarbon and chloride impacts have been delineated vertically and laterally. All confirmatory composite samples collected from the excavation sidewalls and bottom indicate that chloride impacts have been successfully remediated to below the Closure Criteria. Soil sample analytical results are reported in Table 2. The complete laboratory analytical report is included in Appendix D.

### 8.0 CLOSURE REQUEST

Based on the analytical data indicating hydrocarbon and chloride impacts are delineated and the remediation of impacted material, Lucid respectfully requests closure of the Site and no further action associated with Incident Number nRM2019958440. Lucid will periodically monitor any altered Site configurations that may lead to the permanent removal of sensitive subsurface pipelines located within the subject area. Lucid will commence corrective action to address reseeding the Site closer to the spring season for more effective revegetation. If you have any questions or comments, please do not hesitate to contact Mr. Michael Gant at 314-330-7876.

Sincerely, LUCID ENERGY GROUP

Michael Gant Environmental Coordinator

cc: Jim Amos, BLM Emily Hernandez, NMOCD Robert Hamlet, NMOCD Victoria Venegas, NMOCD



### Appendices:

Figure 1	Site Location Map
Figure 2	9/4/20 Sample Location Map
Figure 3	10/24/20 Sample Location Map
Table 2	Soil Analytical Results
Appendix A	Form C-141
Appendix B	Photographic Log
Appendix C	NMOSE Groundwater Data
Appendix D	Laboratory Analytical Reports
Appendix E	Volume Calculations

•



**FIGURES** 





LEGEND Karst Critical  $\triangle$ Site Medium Low

High



Figure 1: Site Location Map Riverside 8" Line Release Eddy County, NM 32.835037°, -104.272662°

Released to Imaging: 12/3/2021 9:42:05 AM

Received by OCD: 10/29/2021 11:21:33 AN





Released to Imaging: 12/3/2021 9:42:05 AM

#### NOTES:

 Analytical Values are given in mg/Kg (ppm).
 Analytical Values in yellow shading exceed NMED RRAL's. W E NAD 1983 StatePlane New Mexico East FIPS 3001 Feet Figure 2: 9/4/20 Sample Location Map Riverside 8" Line Release Eddy County, NM 32.835037°, -104.272662° Received by OCD: 10/29/2021 11:21:33 AM

Page 11 of 140

			SUMER AND THE TRANSPORTATION AND A PROPERTY OF THE PROPERTY OF			12MAN AS 2 MALL
	The The Man		WEATHING THE POST VALUE AND LODE AT		STRATE STRATES IN	
	State 1		We on the market and the			Participant in the
		and a state	A CALL AND A CALL		a cuta the month	代理学习公司而任何
- 8 AL	- AND ANTENING				A State Barrier Barrier	Provide States
and the second	Arrite manual and and	the second second			A A A A A A A A A A A A A A A A A A A	名所有名代言
CONTRACTOR OF THE MAN	and the set of the set					物源 化可提出加
20	A Provident of the second	S. 1. S. C. S. S. S. S. C. C. S. S.	ACC AND IN THE		A Carton and a constant	1.50 BAR 84 - 3140
B-19-C 10/21/2020	SW-27-C 10/23/2020	SW-28-C 10/23/2020 B-34-C	11/25/2020 B-20-C 10/21/2020	SW-29-C 10/23/2020	A Participant of	
Depth 15'	and the second se			SALE TO A	A State of the second second	
BTEX <1	Depth NA	Depth NA Depth	16' Depth 15'	Depth NA		AL AN SECOND
Total TPH 370	BTEX <1	BTEX <1 BTEX	<1 BTEX <1	BTEX <1		COMMAN ALL MAN DE LE
Chloride <60	Total TPH <50	Total TPH <50 Total TPH		Total TPH <50	SW-30-C 10/23/2020	Charles White State
	Chloride 150	Chloride 250 Chloride	<60 Chloride <60	Chloride 310	Depth NA	
B-33-C 11/25/2020						初度不少以民族
Depth 16'	ALL A STAND	ALL AND AND A COMPANY AND A			State Control State	
BTEX <1					Total TPH <50	POLICE PRODUCTION
Total TPH <50	NDREBSNY				Chloride 450	
Chloride <61						Dim Star Star
The second second				BUL B	Wire Ster - Dist	<b>不可约加尔尔</b> 马
State of the state		A CARLENS OF AN			A MARINA CARA STATE	此情况的问题的言言
and the second second		A SA			A CONTRACTOR OF THE OWNER	Contraction of the
					B-22-C 10/23/2020	Line Z Herry
CREWAN COLOR					Depth 10'	A Participation of the second
The shall be the state						
	KST 2					1 3 6 9 3 1 9 10
Walle the second the	A State of the sta			BA ENT	Total TPH <50	A CARLEN
and and the set		A STATE OF A	CC_	and the second second	Chloride <60	
					B-35-C 11/25/2020	N DEBITIE
Marken States 144						
AND A CANADA AND A C				the second se	Depth 10'	
SW-26-C 10/23/2020	II AND		-/-		Depth 10' BTEX <1	
	The se					
Depth NA	Carlon Mar	20			BTEX <1	
Depth NA BTEX <1		29			BTEX <1 Total TPH <50	
DepthNABTEX<1		2 29			BTEX <1 Total TPH <50	
Depth NA BTEX <1	Set 1	20			BTEX <1 Total TPH <50 Chloride <60	
DepthNABTEX<1		20			BTEX         <1           Total TPH         <50	
DepthNABTEX<1	<u>SW-25-C</u> 10/23/2020	2	00		BTEX <1 Total TPH <50 Chloride <60	
DepthNABTEX<1	Depth NA	2	00		BTEX         <1           Total TPH         <50	
DepthNABTEX<1	Depth NA BTEX <1	2000			BTEX         <1	
DepthNABTEX<1	Depth NA			SW-24-C 10/23/2020	BTEX         <1	
DepthNABTEX<1	Depth NA BTEX <1	200		Depth NA	BTEX         <1	
DepthNABTEX<1	Depth         NA           BTEX         <1	C C C C C C C C C C C C C C C C C C C		Depth NA BTEX <1	BTEX         <1	
DepthNABTEX<1	DepthNABTEX<1	B-36-C 11/25/2020 B-21-C 1	0/23/2020	Depth NA	BTEX         <1	
Depth NA BTEX <1 Total TPH 20 Chloride 85	DepthNABTEX<1			Depth NA BTEX <1	BTEX         <1	
DepthNABTEX<1	Depth     NA       BTEX     <1	Depth 16' Depth	15'	DepthNABTEX<1	BTEX         <1	
Depth NA BTEX <1 Total TPH 20 Chloride 85 Chloride 85 Sample Location	Depth     NA       BTEX     <1	Depth16'DepthBTEX<1	15' <1	Depth         NA           BTEX         <1	BTEX         <1	
Depth NA BTEX <1 Total TPH 20 Chloride 85	DepthNABTEX<1	Depth         16'         Depth           BTEX         <1	15' <1 <50	Depth         NA           BTEX         <1	BTEX         <1	
Depth       NA         BTEX       <1	Depth     NA       BTEX     <1	Depth16'DepthBTEX<1	15' <1	DepthNABTEX<1	BTEX         <1	
Depth       NA         BTEX       <1	DepthNABTEX<1	Depth         16'         Depth           BTEX         <1	15' <1 <50	DepthNABTEX<1	BTEX         <1	
Depth       NA         BTEX       <1	DepthNABTEX<1	Depth         16'         Depth           BTEX         <1	15' <1 <50	DepthNABTEX<1	BTEX         <1	
Depth       NA         BTEX       <1	DepthNABTEX<1	Depth         16'         Depth           BTEX         <1	15' <1 <50	DepthNABTEX<1	BTEX         <1	
Depth       NA         BTEX       <1	DepthNABTEX<1	Depth         16'         Depth           BTEX         <1	15' <1 <50	DepthNABTEX<1	BTEX         <1	
Depth       NA         BTEX       <1	DepthNABTEX<1	Depth         16'         Depth           BTEX         <1	15' <1 <50	DepthNABTEX<1	BTEX         <1	



#### NOTES:

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



Figure 3: 10/24/20 Sample Location Map Riverside 8" Line Release Eddy County, NM 32.835037°, -104.272662°

Released to Imaging: 12/3/2021 9:42:05 AM



# TABLES

#### Table 2 Soil Sample Analytical Results Riverside 8" ASS Eddy County, NM

Sample ID	Depth (feet)	Date	Benzene	Toluene	Ethyl-benzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Chlorides
B-1-C	4'	6/23/2020	8.7	100	40	160	308.7	3800	6300	810	10910	1600
SW-2-N-C	NA	6/23/2020	4.1	66	38	150	258.1	2800	5600	1200	9600	320
SP-1-C	NA	6/23/2020	2.1	55	34	140	231.1	3000	8200	1400	12600	3000
SW-1-N-C	NA	7/14/2020	<.12	<.23	<.23	0.62	0.62	<23	1000	500	1500	1400
SW-2-E-C	NA	7/14/2020	<.12	0.86	1.4	8.1	10.36	200	3500	1000	4700	680
SW-3-S-C	NA	7/14/2020	0.16	3.1	1.8	8.4	13.46	230	7000	3200	10430	540
SW-4-W-C	NA	7/14/2020	0.36	8.8	8.1	31	48.26	850	5100	1800	7750	880
B-5-C	NA	7/14/2020	<.11	1.7	1.2	5.8	8.70	220	7400	3100	10720	1500
S-S-4	4'	8/5/2020	<.023	<.046	<.046	<.093	<1	<4.6	<9.9	<50	<50	<60
S-E-4	4'	8/5/2020	<.025	<.050	<.050	<.099	<1	<5.0	<9.4	<47	<50	68
S-W-4	4'	8/5/2020	<.023	<.047	<.047	<.094	<1	<4.7	<9.6	<48	<50	<60
S-N-4	4'	8/5/2020	<.025	<.049	<.049	<.098	<1	<4.9	<9.5	<48	<50	<60
B-S-8	8'	8/5/2020	0.21	<.25	<.25	<.50	0.21	<25	<9.5	<48	<50	320
B-6-C	NA	9/4/2020	<.12	<.25	<.25	<.50	<1	<25	920	550	1470	510
B-7-C	NA	9/4/2020	<.12	0.56	0.54	2.9	4	36	2900	1900	4836	380
B-8-C	NA	9/4/2020	<.12	0.81	1.2	5.1	7.11	49	2600	1400	4049	310
B-9-C	NA	9/4/2020	0.049	0.94	1.3	5.2	7.49	64	2300	1200	3564	290
B-10-C	NA	9/4/2020	<.025	<.050	<.050	<.099	<1	<5.0	710	420	1130	330
SW-11-C	NA	9/4/2020	<.025	<.049	<.049	0.099	0.099	5.5	100	72	178	780
SW-12-C	NA	9/4/2020	<.025	<.049	<.049	0.11	0.11	7.4	1100	310	1417	1500
SW-13-C	NA	9/4/2020	<.12	2.3	1.7	8.2	12.2	160	4200	1900	6260	1800
SW-14-C	NA	9/4/2020	<.25	<.050	<.050	<.099	<1	<5.0	150	87	237	390
SW-15-C	NA	9/4/2020	<.025	<.049	<.049	<.099	<1	<4.9	<9.7	<49	<50	210
SW-16-C	NA	9/4/2020	<.025	0.16	0.077	0.37	0.607	6.2	24	<49	30	<60
SW-17-C	NA	9/4/2020	<.024	<.049	<.049	<.098	<1	<4.9	11	<49	11	<59
SW-18	NA	9/4/2020	<.024	<.048	<.048	<.097	<1	<4.8	110	57	167	250
B-19-C	NA	10/21/2020	<.12	<.24	<.24	0.48	<1	<24	220	150	370	<60
B-20-C	NA	10/21/2020	<.12	<.24	<.24	<.48	<1	<24	180	93	273	<60
B-21-C	NA	10/23/2020	<.025	<.049	<.049	<.098	<1	<4.9	<10	<50	<50	<61
B-22-C	NA	10/23/2020	<.024	<.049	<.049	<.098	<1	<4.9	<9.4	<47	<50	<60
SW-23-C	NA	10/23/2020	<.025	<.050	<.050	<.099	<1	<5.0	48	<44	48	93
SW-24-C	NA	10/23/2020	<.025	<.049	<.049	<.099	<1	<4.9	24	<50	24	95
SW-25-C	NA	10/23/2020	<.025	<.049	<.049	<.099	<1	<4.9	61	<48	61	92
SW-26-C	NA	10/23/2020	<.025	<.049	<.049	<.098	<1	<4.9	20	<47	20	85
SW-27-C	NA	10/23/2020	<.024	<.049	<.049	<.097	<1	<4.9	<9.6	<48	<50	150
SW-28-C	NA	10/23/2020	<.025	<.050	<.050	<.10	<1	<5.0	<9.5	<48	<50	250
SW-29-C	NA	10/23/2020	<.025	<.049	<.049	<.098	<1	<4.9	<9.3	<47	<50	310
SW-30-C	NA	10/23/2020	<.025	<.050	<.050	<.10	<1	<5.0	<9.7	<48	<50	450
SW-31-C	NA	10/23/2020	<.025	<.050	<.050	<.10	<1	<5.0	<9.6	<48	<50	260
SW-32-C	NA	10/23/2020	<.025	<.050	<.050	<.099	<1	<5.0	<9.5	<47	<50	320
B-33-C	NA	11/25/2020	<.025	<.049	<.049	<.098	<1	<4.9	<9.6	<48	<50	<61
B-34-C	NA	11/25/2020	<.024	<.048	<.048	<.097	<1	<4.8	<9.9	<50	<50	<60
B-35-C	NA	11/25/2020	<.025	<.050	<.050	<.10	<1	<5.0	<9.9	<49	<50	<60
B-36-C	NA	11/25/2020	<.025	<.049	<.049	<.098	<1	<4.9	<8.9	<44	<50	<60
NMOCD Tabl	e 1 Closur	e Limits	10		Total BT	EX: 50			Total T	PH: 100		600

Notes:

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



.

Appendix A

Form C-141

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

### **Responsible Party**

Responsible Party Lucid Artesia Company	OGRID 147831
Contact Name Michael Gant	Contact Telephone 3143307876
Contact email MGant@lucid-energy.com	Incident # (assigned by OCD)
Contact mailing address 201 South 4th Street	

### **Location of Release Source**

Latitude 32.835518°

Longitude -104.273590°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Riverside 8" pipeline release	Site Type Low Pressure gathering system
Date Release Discovered 7/10/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
E	15	17S	27E	Eddy

Surface Owner: State V Federal Tribal Private (Name: Bureau of Land Management

### Nature and Volume of Release

ial(s) Released (Select all that apply and attach calculations or speci	fic justification for the volumes provided below)
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (bbls)	Volume Recovered (bbls)
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls) 5 Bbls	Volume Recovered (bbls) 0 Bbls
Volume Released (Mcf) 5 Mcf	Volume Recovered (Mcf) 0 Mcf
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
release was caused by internal corrosion om of the pipe.	which led to a pinhole leak forming on the
	Volume Released (bbls)         Is the concentration of dissolved chloride in the produced water >10,000 mg/l?         Volume Released (bbls) 5 Bbls         Volume Released (Mcf) 5 Mcf         Volume/Weight Released (provide units)

Page 2

### Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🛛 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

### **Initial Response**

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

 $\checkmark$  The source of the release has been stopped.

 $\checkmark$  The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 $\checkmark$  All free liquids and recoverable materials have been removed and managed appropriately.

\_\_\_\_\_

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

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

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

Printed Name: Michael Gant

Signature: Mgant

Title: Environmental Coordinator

<sub>email:</sub> MGant@lucid-energy.com

Date: 7/14/2020 Telephone: 314-330-7876

OCD Only

Received by:

Date:

Received by OCD: 10/29/2021 11:21:33 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 17 0J 14	U
Incident ID		
District RP		
Facility ID		
Application ID		

### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

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

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

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

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

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

1:21:33 AM State of New Mexico		In al dant ID	Page 18 of 1		
Oil Conservation Division		District RP			
		Facility ID			
		Application ID			
The acceptance of a C-141 report by the C d remediate contamination that pose a thre 141 report does not relieve the operator of	OCD does not relieve the eat to groundwater, surfa responsibility for comp 	e operator of liability sho ace water, human health liance with any other feo ntal Coordinator	ould their operations have or the environment. In		
	Date:				
ergy.com	Telephone: 3143307876				
1	Oil Conservation Division	Oil Conservation Division n given above is true and complete to the best of my knowledge a ed to report and/or file certain release notifications and perform or The acceptance of a C-141 report by the OCD does not relieve the d remediate contamination that pose a threat to groundwater, surfa 141 report does not relieve the operator of responsibility for comp	Oil Conservation Division District RP Facility ID Application ID In given above is true and complete to the best of my knowledge and understand that purs ed to report and/or file certain release notifications and perform corrective actions for release The acceptance of a C-141 report by the OCD does not relieve the operator of liability sh d remediate contamination that pose a threat to groundwater, surface water, human health 141 report does not relieve the operator of responsibility for compliance with any other fe		

Received by OCD: 10/29/2021 11:21:33 AM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

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

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\overline{\square}$  Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
$\square$ Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD as responsibility for compliance with any other federal, state, or local la	ertain release notifications and perform corrective actions for releases nee of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, neceptance of a C-141 report does not relieve the operator of
Printed Name: Michael Gant	Title: Environmental Coordinator
Signature: <u>MGant</u> email: MGant@lucid-energy.com	Date: 1/25/2021
<sub>email:</sub> MGant@lucid-energy.com	Date: 1/25/2021 Telephone: 3143307876
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved
Signature:	Date:

Page 5

Page 6

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.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 $\square$  Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Michael Gant	Title: Environmental Coordinator
Signature: <u>MGant</u> email: MGant@lucid-energy.com	Date:
email: MGant@lucid-energy.com	Telephone: 314-330-7876
OCD Only	
Received by: Chad Hensley	Date: 12/03/2021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:12/03/2021
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced



•

Appendix B

**Photographic Log** 





Pre-Excavation Looking West (6/19/20)



Pre-Excavation Looking East (6/19/20)

Appendix B: Photographic Log 06/19/20-12/1/2020 Riverside 8" Line



Initial Repair Excavation Looking East (6/23/20)



Initial Repair Excavation Aerial (7/14/20)

Received by OCD: 10/29/2021 11:21:33 AM





Remediation Excavation Aerial (8/5/20)



Remediation Excavation Aerial (11/23/20)

Appendix B: Photographic Log 06/19/20-12/5/2020 Riverside 8" Line



Remediation Excavation Bottom (11/24/20)



Remediation Excavation Looking South (11/23/20)

021





Remediation Excavation Looking East (11/23/20)



Remediation Excavation Looking North (11/23/20)

Appendix B: Photographic Log 06/19/20-12/5/2020 Riverside 8" Line



### Remediation Excavation Looking West (11/23/20)



Backfilled/Graded Site Looking North (12/4/20)



Appendix C

**Groundwater Data** 

# Riverside 8in. Groundwater Wells



### 12/9/2020, 10:24:16 AM **GIS WATERS PODs**

- 0 Active
- 0 Pending

OSE District Boundary

SiteBoundaries



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



Appendix D

# Laboratory Analytical Reports



July 01, 2020

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

RE: Riverside 8"

OrderNo.: 2006C76

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/25/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**CLIENT:** Lucid Energy Delaware

Riverside 8"

Project:

Analytical Report Lab Order 2006C76

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/1/2020

Client Sample ID: B.1.C Collection Date: 6/23/2020 11:00:00 AM Received Date: 6/25/2020 9:40:00 AM

Lab ID: 2006C76-001	Matrix: SOIL	Rece	Received Date: 6/25/2020 9:40:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	6300	93	mg/Kg	10	6/29/2020 8:29:45 AM				
Motor Oil Range Organics (MRO)	810	460	mg/Kg	10	6/29/2020 8:29:45 AM				
Surr: DNOP	0	55.1-146 \$	S %Rec	10	6/29/2020 8:29:45 AM				
EPA METHOD 300.0: ANIONS					Analyst: CAS				
Chloride	1600	60	mg/Kg	20	6/29/2020 10:41:04 AM				
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: JMR				
Benzene	8.7	0.12	mg/Kg	5	6/29/2020 3:10:24 PM				
Toluene	100	2.4	mg/Kg	50	6/30/2020 4:04:58 AM				
Ethylbenzene	40	2.4	mg/Kg	50	6/30/2020 4:04:58 AM				
Xylenes, Total	160	4.7	mg/Kg	50	6/30/2020 4:04:58 AM				
Surr: 1,2-Dichloroethane-d4	115	70-130	%Rec	5	6/29/2020 3:10:24 PM				
Surr: 4-Bromofluorobenzene	63.6	70-130 \$	S %Rec	5	6/29/2020 3:10:24 PM				
Surr: Dibromofluoromethane	98.2	70-130	%Rec	5	6/29/2020 3:10:24 PM				
Surr: Toluene-d8	105	70-130	%Rec	5	6/29/2020 3:10:24 PM				
EPA METHOD 8015D MOD: GASOLII	NE RANGE				Analyst: JMR				
Gasoline Range Organics (GRO)	3800	240	mg/Kg	50	6/30/2020 4:04:58 AM				
Surr: BFB	103	70-130	%Rec	50	6/30/2020 4:04:58 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

**CLIENT:** Lucid Energy Delaware

Analytical Report Lab Order 2006C76

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/1/2020
Client Sample ID: SW.2.N.C

**Project:** Riverside 8" Collection Date: 6/23/2020 11:05:00 AM Lab ID: 2006C76-002 Matrix: SOIL Received Date: 6/25/2020 9:40:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: BRM Diesel Range Organics (DRO) mg/Kg 5600 90 10 6/29/2020 8:39:33 AM Motor Oil Range Organics (MRO) 1200 450 mg/Kg 10 6/29/2020 8:39:33 AM Surr: DNOP 0 55.1-146 S %Rec 10 6/29/2020 8:39:33 AM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 6/29/2020 11:18:06 AM 320 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JMR Benzene 0.12 mg/Kg 5 6/29/2020 4:36:54 PM 4.1 Toluene 66 2.4 mg/Kg 50 6/30/2020 4:33:36 AM Ethvlbenzene 38 2.4 mg/Kg 50 6/30/2020 4:33:36 AM Xylenes, Total 150 4.8 mg/Kg 50 6/30/2020 4:33:36 AM Surr: 1.2-Dichloroethane-d4 115 70-130 %Rec 5 6/29/2020 4:36:54 PM Surr: 4-Bromofluorobenzene 63.5 70-130 S %Rec 5 6/29/2020 4:36:54 PM Surr: Dibromofluoromethane 108 70-130 %Rec 5 6/29/2020 4:36:54 PM Surr: Toluene-d8 105 70-130 %Rec 5 6/29/2020 4:36:54 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) 2800 6/30/2020 4:33:36 AM 240 mg/Kg 50 Surr: BFB 103 70-130 %Rec 50 6/30/2020 4:33:36 AM

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 8

**CLIENT:** Lucid Energy Delaware

Analytical Report Lab Order 2006C76

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/1/2020
Client Sample ID: SP.1.C

Project:	Riverside 8"		C	ollectio	on Date:	6/23/2	.020 12:00:00 PM
Lab ID:	2006C76-003	Matrix: SOIL	ŀ	Receiv	ed Date:	6/25/2	020 9:40:00 AM
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst: BRM
Diesel R	ange Organics (DRO)	8200	91		mg/Kg	10	6/29/2020 8:49:20 AM
Motor Oi	I Range Organics (MRO)	1400	450		mg/Kg	10	6/29/2020 8:49:20 AM
Surr: I	ONOP	0	55.1-146	S	%Rec	10	6/29/2020 8:49:20 AM
EPA MET	HOD 300.0: ANIONS						Analyst: CAS
Chloride		1200	60		mg/Kg	20	6/29/2020 11:30:26 AM
EPA MET	HOD 8260B: VOLATILES S	SHORT LIST					Analyst: JMR
Benzene	9	2.1	0.12		mg/Kg	5	6/29/2020 6:03:28 PM
Toluene		55	2.4		mg/Kg	50	6/30/2020 5:02:07 AM
Ethylben	zene	34	2.4		mg/Kg	50	6/30/2020 5:02:07 AM
Xylenes,	Total	140	4.8		mg/Kg	50	6/30/2020 5:02:07 AM
Surr: 7	1,2-Dichloroethane-d4	111	70-130		%Rec	5	6/29/2020 6:03:28 PM
Surr: 4	4-Bromofluorobenzene	65.9	70-130	S	%Rec	5	6/29/2020 6:03:28 PM
Surr: I	Dibromofluoromethane	103	70-130		%Rec	5	6/29/2020 6:03:28 PM
Surr:	Toluene-d8	109	70-130		%Rec	5	6/29/2020 6:03:28 PM
EPA MET	HOD 8015D MOD: GASOL	INE RANGE					Analyst: JMR
Gasoline	Range Organics (GRO)	3000	240		mg/Kg	50	6/30/2020 5:02:07 AM
Surr: I	BFB	103	70-130		%Rec	50	6/30/2020 5:02:07 AM

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

Client: Project:	Lucid Energy Delawa Riverside 8"	are								
Sample ID: MB-53	D: MB-53383 SampType: mblk		Tes	TestCode: EPA Method 300.0: Anions						
Client ID: PBS Batch ID: 53383		F	RunNo: <b>7(</b>	0007						
Prep Date: 6/29/	Prep Date: 6/29/2020 Analysis Date: 6/29/2020				SeqNo: 2432186					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-5	3383 SampTy	oe: Ics	;	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch I	D: 53	383	RunNo: 70007						
Prep Date: 6/29/	2020 Analysis Da	te: 6/	29/2020	SeqNo: 2432187		132187	Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 8

2006C76

01-Jul-20

	eid Energy Dela erside 8"	ware								
Sample ID: LCS-53370 SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS Batch ID: 53370		F	unNo: 69	9983						
Prep Date: 6/28/2020	Analysis	Date: 6/	29/2020	S	SeqNo: 2431104			g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	10	50.00	0	122	70	130			
Surr: DNOP	5.8		5.000		115	55.1	146			
Sample ID: MB-53370	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Bato	h ID: 53	370	RunNo: 69983						
Prep Date: 6/28/2020	Analysis	Date: 6/	29/2020	20 SeqNo: 2431105			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MR	0) ND	50								
Surr: DNOP	14		10.00		136	55.1	146			

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2006C76

01-Jul-20

Client: Lucid En Project: Riverside	ergy Dela e 8"	ware										
Sample ID: mb-53369	Samp	Туре: <b>МЕ</b>	BLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batc	h ID: 53	369	RunNo: 69997								
Prep Date: 6/28/2020	Analysis [	Date: 6/2	29/2020	S	SeqNo: 24	431673	Units: mg/k	٢g				
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	0.54		0.5000		108	70	130					
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.0	70	130					
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130					
Surr: Toluene-d8	0.52		0.5000		105	70	130					
Sample ID: Ics-53369	Samp	Type: LC	S4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 53369			F	RunNo: 69	9997						
Prep Date: 6/28/2020	Analysis [	Analysis Date: 6/29/2020			SeqNo: 2431674 U				Units: <b>mg/Kg</b>			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.1	0.025	1.000	0	111	80	120					
Toluene	1.0	0.050	1.000	0	102	80	120					
Ethylbenzene	1.0	0.050	1.000	0	104	80	120					
Xylenes, Total	3.2	0.10	3.000	0	106	80	120					
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130					
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130					
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130					
Surr: Toluene-d8	0.52		0.5000		104	70	130					
Sample ID: 2006c76-002ams	Samp	Туре: <b>МS</b>	64	Tes	tCode: EF	PA Method	8260B: Volat	tiles Short	List			
Client ID: SW.2.N.C	Batc	h ID: 533	369	F	RunNo: <b>6</b> 9	9997						
Prep Date: 6/28/2020	Analysis [	Date: 6/2	29/2020	S	SeqNo: 24	431679	Units: <b>mg/k</b>	٢g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	5.9	0.12	0.9355	4.108	196	71.1	115			S		
Toluene	66	0.23	0.9355	57.87	879	79.6	132			ES		
Ethylbenzene	35	0.23	0.9355	31.50	399	83.8	134			ES		
Xylenes, Total	140	0.47	14.03	126.8	82.9	82.4	132			Е		
Surr: 1,2-Dichloroethane-d4	2.7		2.339		118	70	130					
Surr: 4-Bromofluorobenzene	1.4		2.339		62.0	70	130			S		
Surr: Dibromofluoromethane Surr: Toluene-d8	2.4 2.4		2.339		102	70	130					

#### **Qualifiers:**

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2006C76

01-Jul-20

Client:	Lucid Energy Delaware
Project:	Riverside 8"

Sample ID: 2006c76-002ams	d SampT	уре: МS	SD4	TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: SW.2.N.C	Batch ID: 53369			RunNo: 69997							
Prep Date: 6/28/2020	Analysis Date: 6/29/2020			SeqNo: 2431680			Units: <b>mg/K</b>	ſg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	5.4	0.12	0.9506	4.108	133	71.1	115	10.1	20	S	
Toluene	65	0.24	0.9506	57.87	771	79.6	132	1.36	20	ES	
Ethylbenzene	36	0.24	0.9506	31.50	465	83.8	134	1.92	20	ES	
Xylenes, Total	150	0.48	14.26	126.8	128	82.4	132	4.64	20	Е	
Surr: 1,2-Dichloroethane-d4	2.7		2.376		114	70	130	0	0		
Surr: 4-Bromofluorobenzene	1.6		2.376		66.8	70	130	0	0	S	
Surr: Dibromofluoromethane	2.4		2.376		102	70	130	0	0		
Surr: Toluene-d8	2.6		2.376		108	70	130	0	0		

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 8

WO#:	2006C76
	01 1 1 00

01-Jul-20

Client: Project:	Lucid En Riverside	ergy Delawa 8"	are										
Sample ID:	mb-53369	369 SampType: MBLK				TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID:	PBS	Batch ID: 53369			RunNo: <b>69997</b>								
Prep Date:	6/28/2020	Analysis Date: 6/29/2020			SeqNo: 2431702			Units: <b>mg/Kg</b>					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 490	5.0	500.0		98.4	70	130					
Sample ID:	e ID: Ics-53369 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range												
Client ID:	LCSS	Batch I	D: 53	369	RunNo: <b>69997</b>								
Prep Date:	6/28/2020	Analysis Da	te: 6/	29/2020	SeqNo: 2431703			Units: <b>mg/Kg</b>					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
-	e Organics (GRO)	19	5.0	25.00	0	76.4	70	130					
Surr: BFB		480		500.0		96.3	70	130					
Sample ID:	ID: 2006c76-001ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range												
Client ID:	B.1.C	Batch I	D: 53	369	RunNo: 69997								
Prep Date:	6/28/2020	Analysis Date: 6/29/2020			SeqNo: 2431706			Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	3900	24	119.7	3622	228	70	130			ES		
Surr: BFB		2800		2395		119	70	130					
Sample ID:	2006c76-001amsd	I SampTy	pe: MS	D	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range			
Client ID:	B.1.C	Batch ID: 53369			RunNo: 69997								
Prep Date:	6/28/2020	Analysis Date: 6/29/2020			SeqNo: 2431707			Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	4100	24	117.7	3622	377	70	130	4.29	20	ES		
Surr: BFB		2700		2354		117	70	130	0	0			

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 8

2006C76

01-Jul-20
.

HALL ENVIRONMENTAL ANALYSIS LABORATORY		01 Hawkins NE que, NM 87109 : 505-345-4107	Sample Lo	g-In Check List
Client Name: Lucid Energy Delaware	Work Order Number: 200	)6C76		RcptNo: 1
	6/25/2020 9:40:00 AM 6/25/2020 10:17:54 AM	Gua Gua	way	
<ul><li><u>Chain of Custody</u></li><li>1. Is Chain of Custody complete?</li><li>2. How was the sample delivered?</li></ul>		s 🗹 N	o 🗌 Not Pre	sent
Log In 3. Was an attempt made to cool the samples?	Yes	; 🖌 N	o 🗌	NA 🗌
4. Were all samples received at a temperature of	>0° C to 6.0°C Yes	; 🖌 N	<b>D</b>	
5. Sample(s) in proper container(s)?	Yes	; 🗹 N	o 🗌	
6. Sufficient sample volume for indicated test(s)?	Yes		_	
7. Are samples (except VOA and ONG) properly p	preserved? Yes			
8. Was preservative added to bottles?	Yes			NA
9. Received at least 1 vial with headspace <1/4" f	or AQ VOA? Yes	□ No		NA 🗸
10. Were any sample containers received broken?		_		7
<ul><li>11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li></ul>	Yes		# of prese bottles che	
12. Are matrices correctly identified on Chain of Cu	stody? Yes	V No	Adju	isted?
13. Is it clear what analyses were requested?	Yes		- MS-30	10010500
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>	Yes	✓ No	Chec	ked by: 5946 125-28
Special Handling (if applicable)				
15. Was client notified of all discrepancies with this	order? Yes	. 🗆 N	<b>b</b>	NA 🔽
Person Notified:	Date			
By Whom:	Via: 🗌 eM	1ail 🗌 Phone 🗌	Fax In Perso	on
Regarding:				
Client Instructions:				
16. Additional remarks:				
17. <u>Cooler Information</u> <u>Cooler No</u> <u>Temp °C</u> <u>Condition</u> <u>Seal</u> <u>1</u> <u>1.6</u> <u>Good</u> <u>2</u> <u>2.3</u> <u>Good</u>	Intact Seal No Seal D	Date Signed	Ву	

Page 1 of 1

<b>Received by OCD: 10/29/202</b>	11:21:33 AM	Page 38 of 140
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	EDB (Method 504.1)         EDB (Method 504.1)         PHAb by 8310 or 8270SIMS         PRHs by 8310 or 8270SIMS         PRHs by 8310 or 8270SIMS         PRISON         PRISON <th>b-contracted data will be clearly notated on the analytical report.</th>	b-contracted data will be clearly notated on the analytical report.
4901 H Tel. 50	8081 Pesticides/8082 PCB's	Any su
		Remarks:
Turn-Around Time: Scharg X Standard Rush Project Name: Riversiole 8"	Project Manager:         Sampler: MC         Sampler: MC         On Ice:       EPYes         # of Coolers: 2         Cooler Temp(inetuding cF): 1, 64 02, 16         Type and #       Type         Type and #       Type         1/lozSeil       TCE         2006       Tob         2007       Tob         2006       Tob         2007       Tob         2006       Tob         2007       Tob         2007       Tob         2007       Tob         2005       Tob         2005       Tob         2007       Tob         2005       Tob         2006       Tob         2007       Tob         2005       Tob         205       Tob	Time:       Relinquished by:       Received by:       Via:       Date       Time       Remarks:         143.6       24.000       143.6       24.000       143.6       24.000       24.000         Time:       Relinquished by:       Via:       Date       Time       Remarks:       24.000         Time:       Relinquished by:       Via:       Date       Time       Remarks:         1900       6000       6.710       9.000       4.000       6.000       4.000         If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted on the analytical report.
Client: Lucid Energy Mailing Address: ON File	email or Fax#: wig out 0   uci d - energy.com aArac Package: aArac Package: Standard	Date:     Time:     Relinquished by:       CAU     143.6     CAU       Date:     Time:     Relinquished by:       MU     1940     Relinquished by:       Intervised     Relinquished by:     Relinquished by:



July 22, 2020

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

OrderNo.: 2007726

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

RE: Riverside

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/15/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project:

Lab ID:

**CLIENT:** Lucid Energy Delaware

2007726-001

Riverside

Analytical Report Lab Order 2007726

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/22/2020 Client Sample ID: SW.1.N.C Collection Date: 7/14/2020 11:30:00 AM

Received Date: 7/15/2020 9:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	1000	20	mg/Kg	2	7/19/2020 6:09:09 AM
Motor Oil Range Organics (MRO)	500	98	mg/Kg	2	7/19/2020 6:09:09 AM
Surr: DNOP	94.2	55.1-146	%Rec	2	7/19/2020 6:09:09 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	1400	59	mg/Kg	20	7/18/2020 12:29:51 PM
EPA METHOD 8260B: VOLATILES SHORT L	.IST				Analyst: DJF
Benzene	ND	0.12	mg/Kg	5	7/17/2020 1:27:34 PM
Toluene	ND	0.23	mg/Kg	5	7/17/2020 1:27:34 PM
Ethylbenzene	ND	0.23	mg/Kg	5	7/17/2020 1:27:34 PM
Xylenes, Total	0.62	0.46	mg/Kg	5	7/17/2020 1:27:34 PM
Surr: 1,2-Dichloroethane-d4	93.9	70-130	%Rec	5	7/17/2020 1:27:34 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	5	7/17/2020 1:27:34 PM
Surr: Dibromofluoromethane	96.1	70-130	%Rec	5	7/17/2020 1:27:34 PM
Surr: Toluene-d8	93.7	70-130	%Rec	5	7/17/2020 1:27:34 PM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: DJF
Gasoline Range Organics (GRO)	ND	23	mg/Kg	5	7/17/2020 1:27:34 PM
Surr: BFB	109	70-130	%Rec	5	7/17/2020 1:27:34 PM

Matrix: SOIL

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Project:

Lab ID:

**CLIENT:** Lucid Energy Delaware

2007726-002

Riverside

Analytical Report Lab Order 2007726

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/22/2020

Client Sample ID: SW.2.E.C Collection Date: 7/14/2020 11:32:00 AM Received Date: 7/15/2020 9:30:00 AM

<b>Eub ID:</b> 2007/20 002	Multim Boll	-						
Analyses	Result	RL	Qual	Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS					Analyst: BRM		
Diesel Range Organics (DRO)	3500	96		mg/Kg	10	7/17/2020 5:54:30 PM		
Motor Oil Range Organics (MRO)	1000	480		mg/Kg	10	7/17/2020 5:54:30 PM		
Surr: DNOP	0	55.1-146	S	%Rec	10	7/17/2020 5:54:30 PM		
EPA METHOD 300.0: ANIONS						Analyst: CAS		
Chloride	680	60		mg/Kg	20	7/18/2020 12:42:11 PM		
EPA METHOD 8260B: VOLATILES SHORT	LIST					Analyst: DJF		
Benzene	ND	0.12		mg/Kg	5	7/17/2020 3:57:53 PM		
Toluene	0.86	0.24		mg/Kg	5	7/17/2020 3:57:53 PM		
Ethylbenzene	1.4	0.24		mg/Kg	5	7/17/2020 3:57:53 PM		
Xylenes, Total	8.1	0.48		mg/Kg	5	7/17/2020 3:57:53 PM		
Surr: 1,2-Dichloroethane-d4	89.5	70-130		%Rec	5	7/17/2020 3:57:53 PM		
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	5	7/17/2020 3:57:53 PM		
Surr: Dibromofluoromethane	94.5	70-130		%Rec	5	7/17/2020 3:57:53 PM		
Surr: Toluene-d8	96.4	70-130		%Rec	5	7/17/2020 3:57:53 PM		
EPA METHOD 8015D MOD: GASOLINE RA	NGE					Analyst: DJF		
Gasoline Range Organics (GRO)	200	24		mg/Kg	5	7/17/2020 3:57:53 PM		
Surr: BFB	110	70-130		%Rec	5	7/17/2020 3:57:53 PM		

Matrix: SOIL

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

**Analytical Report** Lab Order 2007726

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/22/2020 Client Sample ID: SW.3.S.C

Project:	Riverside		Co	ollectio	on Date:	7/14/2	2020 11:35:00 AM
Lab ID:	2007726-003	Matrix: SOIL	R	leceivo	ed Date:	7/15/2	2020 9:30:00 AM
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
EPA MET	THOD 8015M/D: DIESEL RAI	NGE ORGANICS					Analyst: BRM
Diesel R	ange Organics (DRO)	7000	94		mg/Kg	10	7/17/2020 6:04:55 PM
Motor Oi	I Range Organics (MRO)	3200	470		mg/Kg	10	7/17/2020 6:04:55 PM
Surr: I	DNOP	0	55.1-146	S	%Rec	10	7/17/2020 6:04:55 PM
EPA MET	THOD 300.0: ANIONS						Analyst: CAS
Chloride		540	60		mg/Kg	20	7/18/2020 12:54:32 PM
EPA ME	THOD 8260B: VOLATILES S	HORT LIST					Analyst: DJF
Benzene	)	0.16	0.12		mg/Kg	5	7/17/2020 4:28:00 PM
Toluene		3.1	0.24		mg/Kg	5	7/17/2020 4:28:00 PM
Ethylben	izene	1.8	0.24		mg/Kg	5	7/17/2020 4:28:00 PM
Xylenes,	Total	8.4	0.47		mg/Kg	5	7/17/2020 4:28:00 PM
Surr:	1,2-Dichloroethane-d4	94.0	70-130		%Rec	5	7/17/2020 4:28:00 PM
Surr: 4	4-Bromofluorobenzene	106	70-130		%Rec	5	7/17/2020 4:28:00 PM
Surr: I	Dibromofluoromethane	97.7	70-130		%Rec	5	7/17/2020 4:28:00 PM
Surr:	Toluene-d8	95.0	70-130		%Rec	5	7/17/2020 4:28:00 PM
EPA MET	THOD 8015D MOD: GASOLI	NE RANGE					Analyst: DJF
Gasoline	e Range Organics (GRO)	230	24		mg/Kg	5	7/17/2020 4:28:00 PM
Surr: I	BFB	106	70-130		%Rec	5	7/17/2020 4:28:00 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 н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

Riverside

Project:

**Analytical Report** Lab Order 2007726

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/22/2020

Client Sample ID: SW.4.W.C Collection Date: 7/14/2020 11:40:00 AM Received Date: 7/15/2020 9:30:00 AM

Lab ID: 2007726-004	Matrix: SOIL	Matrix:         SOIL         Received Date: 7/15/2020 9:30:00 A						
Analyses	Result	RL Qua	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM			
Diesel Range Organics (DRO)	5100	91	mg/Kg	10	7/17/2020 8:06:42 PM			
Motor Oil Range Organics (MRO)	1800	450	mg/Kg	10	7/17/2020 8:06:42 PM			
Surr: DNOP	0	55.1-146 S	%Rec	10	7/17/2020 8:06:42 PM			
EPA METHOD 300.0: ANIONS					Analyst: CAS			
Chloride	880	60	mg/Kg	20	7/18/2020 1:06:51 PM			
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: DJF			
Benzene	0.36	0.12	mg/Kg	5	7/17/2020 4:58:03 PM			
Toluene	8.8	0.25	mg/Kg	5	7/17/2020 4:58:03 PM			
Ethylbenzene	8.1	0.25	mg/Kg	5	7/17/2020 4:58:03 PM			
Xylenes, Total	31	0.50	mg/Kg	5	7/17/2020 4:58:03 PM			
Surr: 1,2-Dichloroethane-d4	88.9	70-130	%Rec	5	7/17/2020 4:58:03 PM			
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	5	7/17/2020 4:58:03 PM			
Surr: Dibromofluoromethane	92.7	70-130	%Rec	5	7/17/2020 4:58:03 PM			
Surr: Toluene-d8	94.8	70-130	%Rec	5	7/17/2020 4:58:03 PM			
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: DJF			
Gasoline Range Organics (GRO)	850	25	mg/Kg	5	7/17/2020 4:58:03 PM			
Surr: BFB	99.2	70-130	%Rec	5	7/17/2020 4:58:03 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
- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 12

Riverside

Project:

**Analytical Report** Lab Order 2007726

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/22/2020

Client Sample ID: B.5.C Collection Date: 7/14/2020 11:45:00 AM Received Date: 7/15/2020 9:30:00 AM

Lab ID: 2007726-005	Matrix: SOIL	Recei	ved Date:	7/15/2	020 9:30:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst: JME
Diesel Range Organics (DRO)	7400	190	mg/Kg	20	7/19/2020 9:47:08 AM
Motor Oil Range Organics (MRO)	3100	970	mg/Kg	20	7/19/2020 9:47:08 AM
Surr: DNOP	0	55.1-146 S	%Rec	20	7/19/2020 9:47:08 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	2100	150	mg/Kg	50	7/19/2020 11:02:55 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: DJF
Benzene	ND	0.11	mg/Kg	5	7/17/2020 6:28:23 PM
Toluene	1.7	0.23	mg/Kg	5	7/17/2020 6:28:23 PM
Ethylbenzene	1.2	0.23	mg/Kg	5	7/17/2020 6:28:23 PM
Xylenes, Total	5.8	0.46	mg/Kg	5	7/17/2020 6:28:23 PM
Surr: 1,2-Dichloroethane-d4	91.8	70-130	%Rec	5	7/17/2020 6:28:23 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	5	7/17/2020 6:28:23 PM
Surr: Dibromofluoromethane	96.0	70-130	%Rec	5	7/17/2020 6:28:23 PM
Surr: Toluene-d8	95.7	70-130	%Rec	5	7/17/2020 6:28:23 PM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: DJF
Gasoline Range Organics (GRO)	220	23	mg/Kg	5	7/17/2020 6:28:23 PM
Surr: BFB	111	70-130	%Rec	5	7/17/2020 6:28:23 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
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 12

Client: Project:	Lucid Er Riverside	ergy Delav	ware									
Sample ID: ME	IB-53800 SampType: mblk				Tes	TestCode: EPA Method 300.0: Anions						
Client ID: PE	BS	Batch	n ID: 53	800	RunNo: 70443							
Prep Date: 7	/18/2020	Analysis D	Date: 7/	18/2020	S	SeqNo: 24	49188	Units: <b>mg/Kg</b>				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		ND	1.5									
Sample ID: LC	CS-53800	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s			
Client ID: LC	SS	Batch	n ID: 53	800	F	RunNo: <b>70</b>	9443					
Prep Date: 7	/18/2020	Analysis D	Date: 7/	18/2020	S	SeqNo: 24	49189	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		14	1.5	15.00	0	92.6	90	110				

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 12

2007726

22-Jul-20

WO#:

## Released to Imaging: 12/3/2021 9:42:05 AM

# **QC SUMMARY REPORT** Hall Envi

Client: Lucid E Project: Riversio	nergy Delaware le			
Sample ID: MB-53750	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 53750	RunNo: 70416		
Prep Date: 7/16/2020	Analysis Date: 7/17/2020	SeqNo: 2448420	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	վ
Diesel Range Organics (DRO)	ND 10			
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 11 10.00	112 55.1	146	
Suit. Divol	11 10.00	112 - 33.1	140	
Sample ID: LCS-53750	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 53750	RunNo: 70415		
Prep Date: 7/16/2020	Analysis Date: 7/17/2020	SeqNo: 2448671	Units: <b>mg/Kg</b>	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	ıl
Diesel Range Organics (DRO) Surr: DNOP	48         10         50.00           4.0         5.000	0 97.0 70 79.0 55.1	130 146	
		79.0 33.1	140	
Sample ID: MB-53759	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 53759	RunNo: 70415		
Prep Date: 7/16/2020	Analysis Date: 7/17/2020	SeqNo: 2448672	Units: %Rec	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	d
Surr: DNOP	10 10.00	104 55.1	146	
Sample ID: LCS-53759	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 53759	RunNo: 70415		
Prep Date: 7/16/2020	Analysis Date: 7/17/2020	SeqNo: 2448673	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	ıl
Surr: DNOP	5.0 5.000	99.9 55.1	146	
Sample ID: LCS-53748	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 53748	RunNo: 70428		
Prep Date: 7/16/2020	Analysis Date: 7/17/2020	SeqNo: 2448823	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al
Diesel Range Organics (DRO)	49 10 50.00	0 97.1 70	130	
Surr: DNOP	4.7 5.000	93.1 55.1	146	
Sample ID: MB-53748	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 53748	RunNo: 70428		
Prep Date: 7/16/2020	Analysis Date: 7/17/2020	SeqNo: 2448824	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al
Diesel Range Organics (DRO)	ND 10			-

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. \*

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

Released to Imaging: 12/3/2021 9:42:05 AM

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 12

Page 46 of 140

	WO#:	2007726
vironmental Analysis Laboratory, Inc.		22-Jul-20

Client:Lucid IProject:Riversi	Energy Delaware ide						
Sample ID: MB-53748	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	Organics			
Client ID: PBS	Batch ID: 53748	RunNo: 70428					
Prep Date: 7/16/2020	Analysis Date: 7/17/2020	SeqNo: 2448824	Units: <b>mg/Kg</b>				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 9.4 10.00	94.5 55.1	146				
Sample ID: MB-53768	SampType: MBLK	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 53768	RunNo: 70449					
Prep Date: 7/16/2020	Analysis Date: 7/18/2020	SeqNo: 2450409	Units: %Rec				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Surr: DNOP	8.6 10.00	86.2 55.1	146				
Sample ID: LCS-53768	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	Organics			
Client ID: LCSS	Batch ID: 53768	Batch ID: 53768 RunNo: 70449					
Prep Date: 7/16/2020	Analysis Date: 7/18/2020	SeqNo: 2450412	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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 12

2007726

22-Jul-20

Client: Lucid E Project: Riversio	lnergy Dela	ware									
Sample ID: mb-53736	Samp	Гуре: <b>МЕ</b>	BLK	Test	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: PBS	Batc	h ID: 53	736	R	RunNo: 7	0397					
Prep Date: 7/15/2020	Analysis [	Date: 7/	16/2020	S	SeqNo: 24	447161	Units: mg/k	٢g			
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	0.46		0.5000		92.2	70	130				
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.5	70	130				
Surr: Dibromofluoromethane	0.47		0.5000		94.7	70	130				
Surr: Toluene-d8	0.49		0.5000		98.0	70	130				
Sample ID: Ics-53736	Samp	Гуре: <b>LC</b>	S4	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List		
Client ID: BatchQC	Batc	Batch ID: 53736			RunNo: <b>70397</b>						
Prep Date: 7/15/2020	Analysis [	Date: 7/	16/2020	S	SeqNo: 24	447162	Units: mg/k	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	107	80	120				
Toluene	1.0	0.050	1.000	0	104	80	120				
Ethylbenzene	1.1	0.050	1.000	0	107	80	120				
Xylenes, Total	3.2	0.10	3.000	0	107	80	120				
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.5	70	130				
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.7	70	130				
Surr: Dibromofluoromethane	0.49		0.5000		97.2	70	130				
Surr: Toluene-d8	0.48		0.5000		96.9	70	130				
Sample ID: mb-53742	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List		
Client ID: PBS	Batc	h ID: 53	742	R	RunNo: 7	0437					
Prep Date: 7/15/2020	Analysis [	Date: 7/	17/2020	S	SeqNo: 24	448594	Units: <b>mg/k</b>	٢g			
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	0.51		0.5000		101	70	130				
	0.01										
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130				
			0.5000 0.5000		94.8 102	70 70	130 130				

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 12

2007726

22-Jul-20

WO#:

Client: Lucid E Project: Riversio	nergy Dela le	ware								
Sample ID: Ics-53742	Samp	Гуре: <b>LC</b>	S4	Tes	estCode: EPA Method 8260B: Volatiles Short List					
Client ID: BatchQC	Batc	h ID: 537	742	F	RunNo: 7	0437				
Prep Date: 7/15/2020	Analysis [	Date: 7/	17/2020	S	SeqNo: 2	448595	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.3	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.0	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.49		0.5000		97.1	70	130			
Sample ID: 2007726-004ams	s Samp <sup>-</sup>	Type: MS	4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: SW.4.W.C	Batc	h ID: 537	742	F	RunNo: 7	0437				
Prep Date: 7/15/2020	Analysis [	Date: 7/	17/2020	S	SeqNo: 2	448597	Units: mg/k	٢g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.12	0.9302	0.3562	95.9	71.1	115			
Toluene	9.2	0.23	0.9302	8.837	38.5	79.6	132			S
Ethylbenzene	8.7	0.23	0.9302	8.119	66.9	83.8	134			S
Xylenes, Total	32	0.47	2.791	31.23	44.2	82.4	132			S
Surr: 1,2-Dichloroethane-d4	2.1		2.326		90.1	70	130			
Surr: 4-Bromofluorobenzene	2.6		2.326		111	70	130			
Surr: Dibromofluoromethane	2.2		2.326		94.8	70	130			
Surr: Toluene-d8	2.2		2.326		94.4	70	130			
Sample ID: 2007726-004ams	sd Samp <sup>-</sup>	Гуре: <b>МS</b>	D4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: SW.4.W.C	Batc	h ID: 537	742	F	RunNo: 7	0437				
Prep Date: 7/15/2020	Analysis [	Date: 7/	17/2020	S	SeqNo: 2	448598	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.4	0.12	0.9930	0.3562	108	71.1	115	13.3	20	
Toluene	10	0.25	0.9930	8.837	153	79.6	132	11.9	20	S
Ethylbenzene	9.9	0.25	0.9930	8.119	182	83.8	134	12.7	20	S
Kylenes, Total	37	0.50	2.979	31.23	177	82.4	132	11.7	20	S
Surr: 1,2-Dichloroethane-d4	2.3		2.483		91.5	70	130	0	0	
Surr: 4-Bromofluorobenzene	2.5		2.483		102	70	130	0	0	
Surr: Dibromofluoromethane	2.3		2.483		91.7	70	130	0	0	
	2.3									

#### **Qualifiers:**

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 10 of 12

2007726

22-Jul-20

Sample ID:         mb-53736         SampType:         MBLK         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         PBS         Batch ID:         53736         RunNo:         70397           Prep Date:         7/15/2020         Analysis Date:         7/16/2020         SeqNo:         2447271         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         ND         5.0         500.0         108         70         130           Sample ID:         Ics-53736         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         53736         RunNo:         70397            Prep Date:         7/16/2020         SeqNo:         2447272         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         23	Client: Lucid En Project: Riverside	ergy Delaware					
Client ID:       PBS       Batch ID:       53736       RunNo:       70397         Prep Date:       7/15/2020       Analysis Date:       7/16/2020       SeqNo:       2447271       Units:       mg/kg         Analyte       Result       POL       SPK value:       SPK Ref Val       %REC       LowLinit       HighLinit       %RPD       RPDLimit       Qual         Gaseline Range Organics (GRO)       ND       5.0       108       70       130       -       -         Sample ID:       LcSS       Batch ID:       53736       RunNo:       70397       130       - <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>							
Prep Date:         7/15/2020         Analysis Date:         7/16/2020         SeqNo:         2447271         Units:         mg/kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gaseline Range Organics (GRO)         ND         5.0         108         70         130           Sample ID:         LCSS         Batch ID:         S3736         RunNo:         70397         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         S3736         RunNo:         709         130           Sample ID:         Malysis Date:         7/16/2020         SeqNo:         2447272         Units:         mg/kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         23         5.0         250.0         93.2         70         130           Qual           Gasoline Range Organics (GRO)         24         Sample ID:         mh/sis Date:         7/17/2020	Sample ID: mb-53736	SampType: MBLK	TestCode: EPA Method	8015D Mod: Gasoline Range			
Analyte         Result         PQL         SPK ref Val         % REC         LowLinit         HighLinit         % RPD         RPDLinit         Qual           Gasoine Range Organics (GRO)         ND         5.0         500.0         108         70         130           Sample ID:         Les-53736         SampType: LCS         TestCode:         EPA Method 8015D Mod:         Gasoine Range           Client ID:         LCSS         Batch ID:         53736         RunNo:         70377         TestCode:         EPA Method 8015D Mod:         Gasoine Range           Analyte         Result         POL         SPK value         SPK Ref Val         % REC         LowLinit         HighLinit         % RPD         RPDLinit         Qual           Gasoine Range Organics (GRO)         23         5.0         25.00         0         9.32         70         130           Sample ID:         mb-53742         SampType:         MBLK         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Gasoine Range Organics (GRO)         ND         5.0         S00.0         100         70         130           SampLiD:         Ib: 153742         RunNo:         To         130         Gasoline Range           Gasoine Range Orga	Client ID: PBS	Batch ID: 53736	RunNo: 70397				
Gaseline Range Organics (GRC)         ND         5.0         108         70         130           Sam PB D:         LCs-53736         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         53736         RunNo:         709397           Prep Date:         7/15/2020         Analysis Date:         7/16/2020         SeqNo:         24/4272         Units:         mg/Kg           Analyte         Result         POL         SPK Value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         23         5.0         25.00         0         93.2         70         130           Sample ID:         mb-53742         SampType:         MBLK         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         PBS         Batch ID:         57742         RunNo:         70437           Sum: BFB         550         500.0         110         70         130           Sample ID:         Lcs53         Batch ID:         57742         RunNo:         70437           Prep Date:         7115/2	Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447271	Units: mg/Kg			
Sur: BFB         540         500.0         108         70         130           Sample ID: Ics-53736         SampType: LCS         TestCode: EPA Method 8015D Mod: Gasoline Range           Client ID: LCSS         Batch ID: 53736         RunNo: 70397           Prep Date:         7115/2020         Analysis Date:         7116/2020         SeqNo: 2447272         Units: mg/Kg           Analyte         Result         PQL         SPK Value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPD Imit         Qual           Gesnine Range Organics (GRO)         23         5.0         250.0         93.2         70         130           Sample ID: mb-53742         SempType: MBLK         TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID:         PBS         Batch ID: 53742         RunNo: 70437           Prep Date:         715/2020         Analysis Date:         7117/72020         SeqNo: 2448615         Units: mg/Kg           Analyte         Result         PQL         SPK ref Val %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         ND         5.00.0         110         70         130         Seconna         Seconna         Seconna	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual		
Client ID:       LCSS       Batch ID:       53736       RunNo:       70397         Prep Date:       7/15/2020       Analysis Date:       7/16/2020       SeqNo:       2447272       Units:       mg/Kg         Analysie       Result       POL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       23       5.0       0       93.2       70       130         Surr: BFB       540       500.0       108       70       130         Sample ID:       mb53742       SampType:       MBLK       TestCode:       EPA Method 8015D Mod:       Gasoline Range         Client ID:       PBS       Batch ID:       53742       RunNo:       70437       TestCode:       EPA Method 8015D Mod:       Gasoline Range         Gasoline Range Organics (GRO)       ND       5.0       500.0       110       70       130       TestCode:       EPA Method 8015D Mod:       Gasoline Range         Gasoline Range Organics (GRO)       ND       5.0       500.0       110       70       130       TestCode:       EPA Method 8015D Mod:       Gasoline Range         Client ID:       LCSS       Batch ID:       537	Gasoline Range Organics (GRO) Surr: BFB		108 70	130			
Prep Date:         7/15/2020         Analysis Date:         7/16/2020         SeqNo:         2447272         Units:         mg/Kg           Analyte         Result         PQL         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         23         5.0         25.00         0         93.2         70         130           Surr. BFB         540         500.0         108         70         130              Sample ID:         mb-53742         SampType:         MBLK         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         PBS         Batch ID:         53742         RunNo:         70437           Prep Date:         7/15/2020         Analysis Date:         7/17/172020         SeqNo:         2448615         Units:         mg/Kg           Gasoline Range Organics (GRO)         ND         5.0         500.0         110         70         130             Sample ID:         Lcs-S         Batch ID:         53742         RunNo:         70437           Qual         Gasoline Range         Qual         Gasoline	Sample ID: Ics-53736	SampType: LCS	TestCode: EPA Method	8015D Mod: Gasoline Range			
Analyte         Result         PQL         SPK Ref Value         SPK Ref Value	Client ID: LCSS	Batch ID: 53736	RunNo: 70397				
Casoline Range Organics (GR0)         23         5.0         25.00         0         93.2         70         130           Surr: BFB         540         500.0         108         70         130           Sample ID: mb-53742         SampType: MBLK         TestCode: EPA Method 8015D Mod: Gasoline Range           Client ID:         PBS         Batch ID: 53742         RunNo: 70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo: 2448615         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK         Malysis         Gasoline Range         Gasoline Range         Gasoline Range         Client ID:         LCS         SampType: LCS         TestCode: EPA Method 8015D Mod: Gasoline Range         Gasoline Range         Client ID:         LCS         Batch ID: 53742         RunNo: 70437         SampLe ID: 102.500         Analysis Date: 7/17/2020         SeqNo: 2448616         Units: mg/Kg         Analyte         Result         PQL         SPK value SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual         Gasoline Range           Gasoline Range Organics (GRO)	Prep Date: 7/15/2020	Analysis Date: 7/16/2020	SeqNo: 2447272	Units: mg/Kg			
Sur:::BFB         540         500.0         108         70         130           Sample ID:::mb-53742         SampType::MBLK         TestCode::EPA Method 8015D Mod::Gasoline Range           Client ID::         PBS         Batch ID::         53742         RunNo::         To437           Prep Date:         7/15/2020         Analysis Date::         7/17/2020         SeqNo::         2448615         Units::         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         ND         5.0         500.0         110         70         130	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual		
Sample ID:         mb-53742         SampType:         MBLK         TestCode:         EPA         Method 8015D         Mod:         Gasoline Range           Client ID:         PBS         Batch ID:         53742         RunNo:         70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo:         2448615         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         ND         5.0         500.0         110         70         130           Sample ID:         Ics-S3742         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         53742         RunNo:         70437            Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo:         2448616         Units:         mg/Kg           Analyte         Result         POL         SPK value         SPK Kef Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Gasoline Range Organics (GRO)						
Client ID:       PBS       Batch ID:       53742       RunNo:       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448615       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       ND       5.0       500.0       110       70       130       70       130         Sample ID:       Lcs-53742       SampType:       LCS       TestCode:       EPA Method       8015D Mod:       Gasoline Range         Client ID:       LCSS       Batch ID:       53742       RunNo:       70437       130       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448616       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       21       5.0       25.00       0       84.8       70       130       130         Sum: BFB       540       Son	Surr: BFB	540 500.0	108 70	130			
Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448615       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       ND       5.0       500.0       110       70       130       130         Sample ID:       Iccs-53742       SampType:       LCS       TestCode:       EPA Method 8015D Mod:       Gasoline Range         Client ID:       LCSS       Batch ID:       53742       RunNo:       70437       130       100         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       21       5.0       0       84.8       70       130       100       1	Sample ID: mb-53742	SampType: <b>MBLK</b>	TestCode: EPA Method	8015D Mod: Gasoline Range			
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualGasoline Range Organics (GRO)ND5.011070130130130130130Sample ID:Ics-53742SampType:LCSTestCode:EPA Method 8015D Mod:Gasoline Range100 <t< td=""><td>Client ID: PBS</td><td>Batch ID: 53742</td><td>RunNo: 70437</td><td></td><td></td></t<>	Client ID: PBS	Batch ID: 53742	RunNo: 70437				
Gasoline Range Organics (GR0)         ND         5.0           Surr: BFB         550         500.0         110         70         130           Sample ID:         Ics-53742         SampType:         LCS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         LCSS         Batch ID:         53742         RunNo:         70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo:         2448616         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GR0)         21         5.0         25.00         0         84.8         70         130           Surr: BFB         540         500.0         107         70         130            Sample ID:         2007726-005ams         SampType:         MS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         B.5.C         Batch ID:         53742         RunNo:         70437           Prep Date:         7/15/2020         Analysis Date: <td< td=""><td>Prep Date: 7/15/2020</td><td>Analysis Date: 7/17/2020</td><td>SeqNo: 2448615</td><td>Units: mg/Kg</td><td></td></td<>	Prep Date: 7/15/2020	Analysis Date: 7/17/2020	SeqNo: 2448615	Units: mg/Kg			
Surr: BFB         550         500.0         110         70         130           Sample ID: Ics-53742         SampType: LCS         TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID:         LCSS         Batch ID: 53742         RunNo: 70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo: 2448616         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         21         5.0         25.00         0         84.8         70         130           Sample ID: 2007726-005ams         SampType: MS         TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID:         B.5.C         Batch ID: 53742         RunNo: 70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo: 2448619         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         220         25         24.58         215.3         25.1 <t< td=""><td>Analyte</td><td>Result PQL SPK value</td><td>SPK Ref Val %REC LowLimit</td><td>HighLimit %RPD RPD</td><td>Limit Qual</td></t<>	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual		
Sample ID:         Ics-53742         SampType:         LCS         TestCode:         EPA Method         8015D         Mod:         Gasoline         Range           Client ID:         LCSS         Batch ID:         53742         RunNo:         70437 <td>•••</td> <td></td> <td></td> <td></td> <td></td>	•••						
Client ID:       LCSS       Batch ID:       53742       RunNo:       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448616       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       21       5.0       25.00       0       84.8       70       130       100 <td>Surr: BFB</td> <td>550 500.0</td> <td>110 70</td> <td>130</td> <td></td>	Surr: BFB	550 500.0	110 70	130			
Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448616       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       21       5.0       25.00       0       84.8       70       130         Surr: BFB       540       500.0       107       70       130	Sample ID: Ics-53742	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range				
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         21         5.0         25.00         0         84.8         70         130           Surr: BFB         540         500.0         107         70         130           Sample ID:         2007726-005ams         SampType: MS         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         B.5.C         Batch ID:         53742         RunNo:         70437           Prep Date:         715/2020         Analysis Date:         717/2020         SeqNo:         2448619         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         220         25         24.58         215.3         25.1         70         130         S           Surr: BFB         2800         2458         112         70         130         S           Sample ID:         2007726-005amsd         SampType: </td <td>Client ID: LCSS</td> <td>Batch ID: 53742</td> <td colspan="4">RunNo: 70437</td>	Client ID: LCSS	Batch ID: 53742	RunNo: 70437				
Gasoline Range Organics (GR0)       21       5.0       25.00       0       84.8       70       130         Surr: BFB       540       500.0       107       70       130         Sample ID: 2007726-005ams       SampType: MS       TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID:       B.5.C       Batch ID: 53742       RunNo: 70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo: 2448619       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GR0)       220       25       24.58       215.3       25.1       70       130       S         Sample ID:       2007726-005amsd       SampType:       MSD       TestCode: EPA Method 8015D Mod: Gasoline Range       S         Sample ID:       2007726-005amsd       SampType:       MSD       TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID:       B.5.C       Batch ID:       53742       RunNo:       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448620       Units: mg/Kg	Prep Date: 7/15/2020	Analysis Date: 7/17/2020	SeqNo: 2448616	Units: mg/Kg			
Surr: BFB       540       500.0       107       70       130         Sample ID: 2007726-005ams       SampType: MS       TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID:       B.5.C       Batch ID: 53742       RunNo: 70437         Prep Date:       7115/2020       Analysis Date:       7117/2020       SeqNo: 2448619       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       220       25       24.58       215.3       25.1       70       130       S         Sample ID: 2007726-005amsd       SampType: MSD       TestCode: EPA Method 8015D Mod: Gasoline Range       Client ID:       B.5.C       Batch ID: 53742       RunNo: 70437         Client ID:       B.5.C       Batch ID: 53742       TestCode: EPA Method 8015D Mod: Gasoline Range       Client ID: 53742       RunNo: 70437         Prep Date:       7/15/2020       Analysis Date: 7/17/2020       SeqNo: 2448620       Units: mg/Kg	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual		
Sample ID: 2007726-005ams       SampType: MS       TestCode: EPA Method 8015D Mod: Gasoline Range         Client ID:       B.5.C       Batch ID:       53742       RunNo:       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448619       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       220       25       24.58       215.3       25.1       70       130       S         Surr: BFB       2800       2458       112       70       130       S       S         Client ID:       B.5.C       Batch ID:       53742       TestCode:       EPA Method 8015D Mod: Gasoline Range         Client ID:       B.5.C       Batch ID:       53742       TestCode:       EPA Method 8015D Mod: Gasoline Range         Client ID:       B.5.C       Batch ID:       53742       RunNo:       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448620       Units: mg/Kg	Gasoline Range Organics (GRO)						
Client ID:       B.5.C       Batch ID:       53742       RunNo:       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448619       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       220       25       24.58       215.3       25.1       70       130       S         Surr: BFB       2800       2458       112       70       130       S         Sample ID:       2007726-005amsd       SampType:       MSD       TestCode:       EPA Method 8015D Mod:       Gasoline Range         Client ID:       B.5.C       Batch ID:       53742       RunNo:       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448620       Units:       mg/Kg	Surr: BFB	540 500.0	107 70	130			
Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448619       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Gasoline Range Organics (GRO)       220       25       24.58       215.3       25.1       70       130       S         Surr: BFB       2800       2458       112       70       130       S       S         Sample ID:       2007726-005amsd       SampType:       MSD       TestCode:       EPA Method 8015D Mod:       Gasoline Range         Client ID:       B.5.C       Batch ID:       53742       RunNo:       70437         Prep Date:       7/15/2020       Analysis Date:       7/17/2020       SeqNo:       2448620       Units:       mg/Kg	Sample ID: 2007726-005ams	SampType: MS	TestCode: EPA Method	8015D Mod: Gasoline Range			
Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Gasoline Range Organics (GRO)         220         25         24.58         215.3         25.1         70         130         S           Surr: BFB         2800         2458         215.3         25.1         70         130         S         S           Sample ID:         2007726-005amsd         SampType:         MSD         TestCode:         EPA Method 8015D Mod:         Gasoline Range         C           Client ID:         B.5.C         Batch ID:         53742         RunNo:         70437         Test Code:         EPA Method         Units:         mg/Kg	Client ID: B.5.C	Batch ID: 53742	RunNo: 70437				
Gasoline Range Organics (GRO)         220         25         24.58         215.3         25.1         70         130         S           Surr: BFB         2800         2458         112         70         130         S           Sample ID:         2007726-005amsd         SampType:         MSD         TestCode:         EPA Method 8015D Mod:         Gasoline Range           Client ID:         B.5.C         Batch ID:         53742         RunNo:         70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo:         2448620         Units:         mg/Kg	Prep Date: 7/15/2020	Analysis Date: 7/17/2020	SeqNo: 2448619	Units: mg/Kg			
Surr: BFB         2800         2458         112         70         130           Sample ID:         2007726-005amsd         SampType:         MSD         TestCode:         EPA Method         8015D Mod:         Gasoline Range           Client ID:         B.5.C         Batch ID:         53742         RunNo:         70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo:         2448620         Units:         mg/Kg	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit Qual		
Sample ID:         2007726-005amsd         SampType:         MSD         TestCode:         EPA Method         8015D Mod:         Gasoline Range           Client ID:         B.5.C         Batch ID:         53742         RunNo:         70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo:         2448620         Units:         mg/Kg	•••				S		
Client ID:         B.5.C         Batch ID:         53742         RunNo:         70437           Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo:         2448620         Units:         mg/Kg	Surr: BFB	2800 2458	112 70	130			
Prep Date:         7/15/2020         Analysis Date:         7/17/2020         SeqNo:         2448620         Units:         mg/Kg	Sample ID: 2007726-005ams	d SampType: MSD	TestCode: EPA Method	8015D Mod: Gasoline Range			
	Client ID: B.5.C	Batch ID: 53742	RunNo: 70437				
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date: 7/15/2020	Analysis Date: 7/17/2020	SeqNo: 2448620	Units: mg/Kg			
	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPD	Limit 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 11 of 12

Page 50 of 140

2007726

22-Jul-20

WO#:

Page 11 of

Client: Project:	Lucid Ene Riverside		ware								
0										_	
•	2007726-005amsd		уре: М					8015D Mod:	Gasoline	Range	
Client ID:	B.5.C	Batcl	n ID: 53	742	R	tunNo: 7	0437				
Prep Date:	7/15/2020	Analysis D	Date: 7/	17/2020	S	eqNo: 24	448620	Units: mg/K	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	220	24	23.81	215.3	8.26	70	130	1.91	20	S
Surr: BFB		2700		2381		113	70	130	0	0	

#### **Qualifiers:**

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 12 of 12

2007726

22-Jul-20

HALL Environmental Analysis Laboratory	Hall Environment A. TEL: 505-345-39 Website: clients.	490 Ibuquerq 75 FAX	l Hawkin ue, NM 8 505-345-	ns NE 17109 <b>Sam</b> 1107	npie Log-In Ch	eck List
Client Name: Lucid Energy Delaware	Work Order Number	er: 2007	726		RcptNo: 1	]
Received By: Juan Rojas	7/15/2020 9:30:00 A	м		Guans &		
Completed By: Juan Rojas	7/15/2020 10:17:09	AM		Grand g		
Reviewed By: UM 7/15/20				7		
<u>Chain of Custody</u>						
1. Is Chain of Custody complete?		Yes	$\checkmark$	No 🗌	Not Present	
2. How was the sample delivered?		<u>Cour</u>	ier			
Log In						
3. Was an attempt made to cool the samples?		Yes		No 🗌	NA 🗌	
4. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes		No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes		No 🗌		
6. Sufficient sample volume for indicated test(s)	?	Yes	✓	No 🗌		
7. Are samples (except VOA and ONG) properly	preserved?	Yes	✓	No 🗌		
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗌	
9. Received at least 1 vial with headspace <1/4"	for AQ VOA?	Yes		No 🗌	NA 🔽	
10, Were any sample containers received broker	?	Yes		No 🗹 🛛	# of preserved bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	✓	No 🗌		2 unless noted)
12. Are matrices correctly identified on Chain of C	Sustody?	Yes		No 🗌	Adjusted?	
13. Is it clear what analyses were requested?				No 🗌		ND 7/154
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	$\checkmark$	No 🛄	Checked by: DF	1D 7/15/20
Special Handling (if applicable)						
15. Was client notified of all discrepancies with the	iis order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date					
By Whom:	Via:	🗌 eMa	il 🗌 P	hone 🔲 Fax	🗌 in Person	
Regarding:						
Client Instructions:	antinghting and a state of the second state of the second state of the second state of the second state of the					
16. Additional remarks:						
17. <u>Cooler Information</u>			2005.00 T			
Cooler No         Temp %         Condition         Sea           1         3.9         Good	al Intact Seal No	Seal Da	te	Signed By		

Multiple     Multiple       Attal Environmental com       Attal Envino       Attal	140
Main     Main     Main     Main       Main     Main	
Main     Main     Main     Main       Main     Main	port.
Main     Main     Main     Main       Main     Main	lical re
Main     Main     Main     Main       Main     Main	e analy
Main     Main     Main     Main       Main     Main	on the
Mark     BTEX/     Mark     BTEX/     Mark       ADD     HAL     HAL     HAL       ADD     HAL       ADD     HAL       ADD     HAL       ADD     HAL <td>otated</td>	otated
Model     Model     Model     Model       Model     Model <td>early n</td>	early n
Model     Model     Model     Model       Model     Model <td>ll be cí</td>	ll be cí
Market     Market <td>lata wi</td>	lata wi
Market     Market <td>acted c</td>	acted c
	-contra
	ny sub
	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
1 Ime 2 1.30 1.10 1.10 1.10 1.10 1.10 1.10 1.10	possib
	of this
	notice
	es as
	lis sen
Rush Down Control Cont	
CC Benative estimation	oratori
VCSic VCSic Validation 201	ted lab
Turn-Around Time: A Standard Received by: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: NC On Ice Container Type and # Type	ccredi
Turn-Around T Received by: Received by: Troject Manag	N.
Turm-Aroun Project Nam Project Nam Project Mar Project Mar Project Mar Received by: Received by:	ted to
Receiver Receiver State Content Conten	ontrac
d ation)	e subo
Stody Record Press A Press A Prile Ality Validation) D 2876 SW1-1/1/2 SW1-1/1/2 SW1-2/	may b
	nental
Processing Sample Name Ray Reconstruction Processing Reconstruction Pr	nviron
B 'S WILL BUILT	鬯
BSSU BSAM	ted to
	submi
- Conception of the second of	and and a
Chain-of-Custody Record t. Lucid Energy Record g Address: ON RIAS O 2876 e #: 3/U 35 0 2876 e #: 3/U 35 0 2876 for Fax#: C Package: andard D Level 4 (Full Validati andard D Level 4 (Full Val	f necessary, samples submitted to HallEnvironmental may be subcontracted to other accredited laboratories.
Time: Ti	iecess:
Client: Cue Client: Cue Phone #: Cue OAQC Package: Client: Cue Standard Address: Client: Cue Address: Client: Cue Date Time N Date Time N Date Time N Date Time N Date Time N Date Time N	Ē
Client: Cu Client: Cu Mailing Address Mailing Address OA/OC Package Client: Cu Date Time Date Time Date Time	



August 14, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210 TEL: (575) 513-8988 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2008274

RE: Riverside

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/6/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2008274

Date Reported: 8/14/2020

CLIENT: Lucid Energy Delaware		Client S	Sample ID:	S.S.4'					
<b>Project:</b> Riverside		Collection Date: 8/5/2020							
Lab ID: 2008274-001	Matrix: SOIL	Matrix: SOIL Received Date: 8/6/2020 8:00:00 AM							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	8/11/2020 3:01:47 AM				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/11/2020 3:01:47 AM				
Surr: DNOP	90.0	30.4-154	%Rec	1	8/11/2020 3:01:47 AM				
EPA METHOD 300.0: ANIONS					Analyst: CJS				
Chloride	ND	60	mg/Kg	20	8/12/2020 2:37:23 PM				
EPA METHOD 8260B: VOLATILES SH	IORT LIST				Analyst: JMR				
Benzene	ND	0.023	mg/Kg	1	8/11/2020 6:18:16 AM				
Toluene	ND	0.046	mg/Kg	1	8/11/2020 6:18:16 AM				
Ethylbenzene	ND	0.046	mg/Kg	1	8/11/2020 6:18:16 AM				
Xylenes, Total	ND	0.093	mg/Kg	1	8/11/2020 6:18:16 AM				
Surr: 1,2-Dichloroethane-d4	96.0	70-130	%Rec	1	8/11/2020 6:18:16 AM				
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	8/11/2020 6:18:16 AM				
Surr: Dibromofluoromethane	108	70-130	%Rec	1	8/11/2020 6:18:16 AM				
Surr: Toluene-d8	95.5	70-130	%Rec	1	8/11/2020 6:18:16 AM				
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analyst: JMR				
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/11/2020 6:18:16 AM				
Surr: BFB	99.7	70-130	%Rec	1	8/11/2020 6:18:16 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
- Н 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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2008274

Date Reported: 8/14/2020

CLIENT: Lucid Energy Delaware		Client S	Sample ID:	S.E.4					
Project: Riverside	Collection Date: 8/5/2020								
Lab ID: 2008274-002	Matrix: SOIL	Matrix: SOIL         Received Date: 8/6/2020 8:00:00							
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/11/2020 3:25:55 AM				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/11/2020 3:25:55 AM				
Surr: DNOP	97.1	30.4-154	%Rec	1	8/11/2020 3:25:55 AM				
EPA METHOD 300.0: ANIONS					Analyst: CJS				
Chloride	68	60	mg/Kg	20	8/12/2020 3:14:25 PM				
EPA METHOD 8260B: VOLATILES SH	IORT LIST				Analyst: JMR				
Benzene	ND	0.025	mg/Kg	1	8/12/2020 1:53:24 PM				
Toluene	ND	0.050	mg/Kg	1	8/12/2020 1:53:24 PM				
Ethylbenzene	ND	0.050	mg/Kg	1	8/12/2020 1:53:24 PM				
Xylenes, Total	ND	0.099	mg/Kg	1	8/12/2020 1:53:24 PM				
Surr: 1,2-Dichloroethane-d4	99.8	70-130	%Rec	1	8/12/2020 1:53:24 PM				
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/12/2020 1:53:24 PM				
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/12/2020 1:53:24 PM				
Surr: Toluene-d8	99.5	70-130	%Rec	1	8/12/2020 1:53:24 PM				
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analyst: JMR				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/12/2020 1:53:24 PM				
Surr: BFB	105	70-130	%Rec	1	8/12/2020 1:53:24 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
- Н 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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2008274

Date Reported: 8/14/2020

CLIENT: Lucid Energy Delaware		Client S	Sample ID:	S.W.4	.'				
Project: Riverside	Collection Date: 8/5/2020								
Lab ID: 2008274-003	Matrix: SOIL	Rece	eived Date:	8/6/20	20 8:00:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: BRM				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/11/2020 3:50:06 AM				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/11/2020 3:50:06 AM				
Surr: DNOP	94.4	30.4-154	%Rec	1	8/11/2020 3:50:06 AM				
EPA METHOD 300.0: ANIONS					Analyst: CJS				
Chloride	ND	60	mg/Kg	20	8/12/2020 3:26:46 PM				
EPA METHOD 8260B: VOLATILES SH	IORT LIST				Analyst: JMR				
Benzene	ND	0.023	mg/Kg	1	8/11/2020 7:15:32 AM				
Toluene	ND	0.047	mg/Kg	1	8/11/2020 7:15:32 AM				
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2020 7:15:32 AM				
Xylenes, Total	ND	0.094	mg/Kg	1	8/11/2020 7:15:32 AM				
Surr: 1,2-Dichloroethane-d4	97.8	70-130	%Rec	1	8/11/2020 7:15:32 AM				
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/11/2020 7:15:32 AM				
Surr: Dibromofluoromethane	106	70-130	%Rec	1	8/11/2020 7:15:32 AM				
Surr: Toluene-d8	95.7	70-130	%Rec	1	8/11/2020 7:15:32 AM				
EPA METHOD 8015D MOD: GASOLIN	E RANGE				Analyst: <b>JMR</b>				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2020 7:15:32 AM				
Surr: BFB	103	70-130	%Rec	1	8/11/2020 7:15:32 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
- Н 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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 13

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2008274

Date Reported: 8/14/2020

CLIENT: Lucid Energy Delaware Project: Riverside		)20			
Lab ID: 2008274-004	Matrix: SOIL	Rec	eived Date:	8/6/20	020 8:00:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/11/2020 3:46:38 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/11/2020 3:46:38 PM
Surr: DNOP	93.1	30.4-154	%Rec	1	8/11/2020 3:46:38 PM
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/10/2020 12:59:58 PM
Surr: BFB	101	75.3-105	%Rec	1	8/10/2020 12:59:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	8/10/2020 12:59:58 PM
Toluene	ND	0.049	mg/Kg	1	8/10/2020 12:59:58 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/10/2020 12:59:58 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/10/2020 12:59:58 PM
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	8/10/2020 12:59:58 PM
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	60	mg/Kg	20	8/12/2020 4:03:49 PM

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

**Qualifiers:** 

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 13

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2008274

Date Reported: 8/14/2020

CLIENT: Lucid Energy Delaware Project: Riverside		Client Sample ID: B.S.8' Collection Date: 8/5/2020						
Lab ID: 2008274-005	Matrix: SOIL	Rece	eived Date:	8/6/20	20 8:00:00 AM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: BRM			
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/11/2020 4:10:35 PM			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/11/2020 4:10:35 PM			
Surr: DNOP	96.2	30.4-154	%Rec	1	8/11/2020 4:10:35 PM			
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: NSB			
Gasoline Range Organics (GRO)	ND	25	mg/Kg	5	8/10/2020 1:23:32 PM			
Surr: BFB	103	75.3-105	%Rec	5	8/10/2020 1:23:32 PM			
EPA METHOD 8021B: VOLATILES					Analyst: NSB			
Benzene	0.21	0.12	mg/Kg	5	8/10/2020 1:23:32 PM			
Toluene	ND	0.25	mg/Kg	5	8/10/2020 1:23:32 PM			
Ethylbenzene	ND	0.25	mg/Kg	5	8/10/2020 1:23:32 PM			
Xylenes, Total	ND	0.50	mg/Kg	5	8/10/2020 1:23:32 PM			
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	5	8/10/2020 1:23:32 PM			
EPA METHOD 300.0: ANIONS					Analyst: CJS			
Chloride	320	60	mg/Kg	20	8/12/2020 4:16:11 PM			

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

**Qualifiers:** 

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

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 13

Client: Project:	Lucid E Riversi	Energy Delaw de	are								
Sample ID:	LCS-54363	SampType: Ics			Tes	estCode: EPA Method 300.0: Anions					
Client ID:	LCSS	Batch	ID: 54	363	F	RunNo: <b>7</b>	1037				
Prep Date:	8/12/2020	Analysis Da	ate: <b>8/</b>	12/2020	S	SeqNo: 24	475462	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.8	90	110			
Sample ID:	MB-54363	SampTy	vpe: mb	olk	TestCode: EPA Method			300.0: Anion	s		
Client ID:	PBS	Batch	ID: 54	363	F	RunNo: <b>7</b>	1037				
Prep Date:	8/12/2020	Analysis Da	ate: <b>8/</b>	12/2020	S	SeqNo: 24	475463	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 13

2008274

14-Aug-20

Client: Lucid En	nergy Delaware							
Project: Riversid	le							
Sample ID: LCS-54255	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 54255	RunNo: 70976	RunNo: <b>70976</b>					
Prep Date: 8/7/2020	Analysis Date: 8/10/2020	SeqNo: 2472908	Units: <b>mg/Kg</b>					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO) Surr: DNOP	481050.005.05.000	0 96.3 70 100 30.4	130 154					
Sample ID: MB-54255	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 54255	RunNo: 70976						
Prep Date: 8/7/2020	Analysis Date: 8/11/2020	SeqNo: 2472909	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	ND 10 ND 50							
Motor Oil Range Organics (MRO) Surr: DNOP	5.7 10.00	56.6 30.4	154					
Sample ID: LCS-54307	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 54307	RunNo: 70976						
Prep Date: 8/10/2020	Analysis Date: 8/11/2020	SeqNo: 2473721	Units: %Rec					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Surr: DNOP	5.1 5.000	102 30.4	154					
Sample ID: MB-54307	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 54307	RunNo: 70976						
Prep Date: 8/10/2020	Analysis Date: 8/11/2020	SeqNo: 2473722	Units: %Rec					
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Surr: DNOP	9.9 10.00	99.2 30.4	154					
Sample ID: MB-54302	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 54302	RunNo: 71006						
Prep Date: 8/10/2020	Analysis Date: 8/11/2020	SeqNo: 2474010	Units: <b>mg/Kg</b>					
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	ND 10 ND 50							
Surr: DNOP	9.5 10.00	94.6 30.4	154					
Sample ID: LCS-54302	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 54302	RunNo: 71006						
Client ID: LCSS Prep Date: 8/10/2020	Batch ID: <b>54302</b> Analysis Date: <b>8/11/2020</b>	RunNo: <b>71006</b> SeqNo: <b>2474011</b>	Units: <b>mg/Kg</b>					

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 13

2008274

14-Aug-20

	cid Energy Delaware verside	
Sample ID: LCS-54302	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 54302	RunNo: 71006
Prep Date: 8/10/2020	Analysis Date: 8/11/2020	20 SeqNo: 2474011 Units: mg/Kg
Analyte	Result PQL SPK v	value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO	) 54 10 5	50.00 0 107 70 130
Surr: DNOP	4.8 5	5.000 96.5 30.4 154
Sample ID: LCS-54310	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 54310	RunNo: <b>70976</b>
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	20 SeqNo: 2474236 Units: %Rec
Analyte	Result PQL SPK v	value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.1 5	5.000 82.1 30.4 154
Sample ID: MB-54310	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 54310	RunNo: <b>70976</b>
Prep Date: 8/10/2020	Analysis Date: 8/12/2020	20 SeqNo: 2474237 Units: %Rec
Analyte	Result PQL SPK v	value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 1	10.00 90.4 30.4 154

#### **Qualifiers:**

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

- в Analyte detected in the associated Method Blank
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

Page 8 of 13

2008274

14-Aug-20

WO#:

#### Е Value above quantitation range

- RL Reporting Limit

Client: Project:	Lucid Ene Riverside	ergy Delaw	are								
Sample ID:	mb-54268	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch	ID: <b>54</b> 2	268	F	RunNo: 7	0938				
Prep Date:	8/7/2020	Analysis Da	ate: <b>8/</b>	9/2020	S	SeqNo: 2	470936	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	e Organics (GRO)	ND	5.0								
Surr: BFB		1000		1000		103	75.3	105			
Sample ID:	lcs-54268	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	ID: <b>54</b> 2	268	F	RunNo: 7	0938				
Prep Date:	8/7/2020	Analysis Da	ate: <b>8/</b>	9/2020	5	SeqNo: 2	470937	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	e Organics (GRO)	20	5.0	25.00	0	81.1	72.5	106			
Surr: BFB		1100		1000		108	75.3	105			S
Sample ID:	mb-54276	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	PBS	Batch	ID: <b>54</b> 2	276	F	RunNo: 7	0956				
Prep Date:	8/8/2020	Analysis Da	ate: <b>8/</b>	10/2020	5	SeqNo: 2	471833	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		103	75.3	105			
Sample ID:	lcs-54276	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	ID: <b>54</b> 2	276	F	RunNo: 7	0956				
Prep Date:	8/8/2020	Analysis Da	ate: <b>8/</b>	10/2020	S	eqNo: 2	471834	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		110	75.3	105			S

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

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

RL Reporting Limit

Page 9 of 13

2008274

14-Aug-20

Client: Project:	Lucid Ene Riverside	ergy Delav	ware								
Sample ID: 1		Samo	Type: ME		Tos	tCode: EE	A Method	8021B: Volati	los		
Client ID:		•							103		
			h ID: <b>54</b> 2			RunNo: <b>7(</b>					
Prep Date:	8/7/2020	Analysis D	Date: 8/	9/2020		SeqNo: 24	171011	Units: mg/Kg	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-Bromo	fluorobenzene	1.1		1.000		108	80	120			
Sample ID: I	LCS-54268	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batc	h ID: <b>54</b> 2	268	F	RunNo: <b>7(</b>	0938				
Prep Date:	8/7/2020	Analysis D	Date: <b>8/</b>	9/2020	S	SeqNo: 24	471012	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.95	0.025	1.000	0	95.4	80	120			
Toluene		0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene		0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromo	fluorobenzene	1.1		1.000		108	80	120			
Sample ID:	mb-54276	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	PBS	Batc	h ID: 54	276	F	RunNo: <b>7(</b>	0956				
Prep Date:	8/8/2020	Analysis E	Date: <b>8/</b>	10/2020	S	SeqNo: 24	171880	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	fluorobenzene	1.1		1.000		106	80	120			
Sample ID: I	LCS-54276	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batc	h ID: 54	276	F	RunNo: <b>70</b>	0956				
Prep Date:	8/8/2020	Analysis D	Date: <b>8/</b>	10/2020	S	SeqNo: 24	171881	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	fluorobenzene	1.1		1.000		108	80	120			

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 13

2008274

14-Aug-20

Client: Lucid Er Project: Riverside	nergy Dela <sup>.</sup> e	ware								
Sample ID: Ics-54252	Samp	Type: LC	CS4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC		h ID: 54		F	RunNo: 7	0994				
Prep Date: 8/6/2020	Analysis [	-	-		SeqNo: 24		Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	1.0	0.050	1.000	0	99.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.1	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.48		0.5000		95.2	70	130			
Sample ID: mb-54252	Samp	Type: MI	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS		h ID: 54			RunNo: 7					
Prep Date: 8/6/2020	Analysis [				SeqNo: 24		Units: <b>mg/K</b>	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: 1,2-Dichloroethane-d4	0.49		0.5000		98.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.48		0.5000		96.5	70	130			
Sample ID: mb-54278	Samp	Туре: <b>М</b> І	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: 54	278	F	RunNo: 7	0994				
Prep Date: 8/8/2020	Analysis [	Date: 8/	/11/2020	S	SeqNo: 24	473459	Units: %Red	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		95.0	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			
Sample ID: Ics-54278	Samp	Type: LC	CS4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 54	278	F	RunNo: 7	0994				
Prep Date: 8/8/2020	Analysis [	Date: <b>8</b> /	/11/2020	\$	SeqNo: 24	473460	Units: %Red	•		
	<b>D</b> "	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result		0							
Analyte Surr: 1,2-Dichloroethane-d4	0.49	I QL	0.5000		98.2	70	130			

#### **Qualifiers:**

Value exceeds Maximum Contaminant Level. \*

D Sample Diluted Due to Matrix

Н 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

Analyte detected in the associated Method Blank в

Е Value above quantitation range

J Analyte detected below quantitation limits Р

Sample pH Not In Range RL Reporting Limit

Page 11 of 13

.

2008274

14-Aug-20

Client:	Lucid Energy De	elaware								
Project:	Riverside									
Sample ID: Ics-542	<b>78</b> Sar	npType: L	CS4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC Batch ID: 54278 RunNo: 70994										
Prep Date: 8/8/20	20 Analys	is Date:	3/11/2020	S	SeqNo: 24	473460	Units: %Rec	;		
Analyte	Resu	t PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluorome	thane 0.5	2	0.5000		105	70	130			
Surr: Toluene-d8	0.4	6	0.5000		92.9	70	130			

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 13

2008274

14-Aug-20

Client:	Lucid Ene	ergy Delaw	are								
Project:	Riverside										
Sample ID:	lcs-54252	SampTy	/pe: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D Mod: 0	Gasoline	Range	
Client ID:	LCSS	Batch	ID: <b>54</b> 2	252	R	unNo: 7	0994				
Prep Date:	8/6/2020	Analysis Da	ate: <b>8/</b>	10/2020	S	eqNo: 24	473464	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	e Organics (GRO)	22	5.0	25.00	0	88.3	70	130			
Surr: BFB		500		500.0		99.3	70	130			
Sample ID:	mb-54252	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015D Mod: 0	Basoline I	Range	
Client ID:	PBS	Batch	ID: <b>54</b> 2	252	R	unNo: 7	0994				
Prep Date:	8/6/2020	Analysis Da	ate: <b>8/</b>	10/2020	S	eqNo: 24	473465	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 510	5.0	500.0		101	70	130			
Sull. DI D		510		500.0		101	70	130			
Sample ID:	lcs-54278	SampTy	/pe: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D Mod: 0	Gasoline	Range	
Client ID:	LCSS	Batch	ID: <b>54</b> 2	278	R	unNo: 7	0994				
Prep Date:	8/8/2020	Analysis Da	ate: <b>8/</b>	11/2020	S	eqNo: 24	473496	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		500		500.0		99.3	70	130			
Sample ID:	mb-54278	SampTy	/pe: <b>ME</b>	BLK	Tes	Code: El	PA Method	8015D Mod: 0	Gasoline	Range	
Client ID:	PBS	Batch	ID: 54	278	R	unNo: 7	0994				
Prep Date:	8/8/2020	Analysis Da	ate: <b>8/</b>	11/2020	S	eqNo: 24	473497	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		510		500.0		102	70	130			

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 13

2008274

14-Aug-20

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-	tental Analysis Lab 4901 Haw Albuquerque, NN -3975 FAX: 505-34 nts.hallenvironmen	kins NE 1 87109 <b>San</b> 15-4107	nple Log-In Check List	
Client Name: Lucid Energy Delaware	Work Order Nur	mber: 2008274		RcptNo: 1	
Received By: Juan Rojas	8/6/2020 8:00:00	AM	Granza g	¥	
Completed By: Juan Rojas	8/6/2020 10:32:34	4 AM	Guarant	-	
Reviewed By:	08/04/20	)			
<u>Chain of Custody</u>					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
· · · ·					
Log In 3. Was an attempt made to cool the samples	?	Yes 🗸	No		
4. Were all samples received at a temperatur	e of >0° C to 6.0°C	Yes 🗌 Not Fr	No 🔽		
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume for indicated test	(s)?	Yes 🔽	No 🗌		
7. Are samples (except VOA and ONG) prope	erly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🔽	NA 🗌	
9. Received at least 1 vial with headspace <1,	/4" for AQ VOA?	Yes	No 🗌	NA 🔽	/
10. Were any sample containers received brok	en?	Yes	No 🔽		
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗌	# of preserved bottles checked for pH: (<2 or >12 unless noted)	
12. Are matrices correctly identified on Chain o	f Custody?	Yes 🔽	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🔽	No 🗌	Checked by: SPA 8.6.	201
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes 🔽	No	Checked by: 2//A O'O'	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date Via:		Phone 🗌 Fax	□ In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:				2	
17. <u>Cooler Information</u> Cooler No   Temp °C   Condition   S	Seal Intact Seal No	Seal Date	Signed By		
1 3.3 Good	Sear made Sear NO	Seal Dale	Signed By		
2 2.1 Good					
3 -0.4 Good					

Page 1 of 1

.>	11:21:33 AM	Page 69 of 140
<ul> <li>HALL ENVIRONMENTAL</li> <li>HALL ENVIRONMENTAL</li> <li>ANALYSIS LABORATOR</li> <li>www.hallenvironmental.com</li> <li>www.hallenvironmental.com</li> <li>4901 Hawkins NE - Albuquerque, NM 87109</li> <li>4901 Hawkins NE - Albuquerque, NM 87109</li> <li>Tel. 505-345-3975 Fax 505-345-4107</li> <li>Tel. 505-345-3975 Request</li> </ul>	Image: Section of the section of th	Date       Time       Remarks: $3 \cdot 3 - 6 = 3 \cdot 3$ $25/20$ $3 \cdot 3 - 6 = 3 \cdot 3$ $2 \cdot 1 - 6 = 2 \cdot 1$ Date       Time $2 \cdot 1 - 6 = 2 \cdot 1$ $2 \cdot 1 - 6 = 2 \cdot 1$ $-6 \cdot 4 - 6 = -6 \cdot 4$ Flux $2 \cdot 2 \cdot 1$ This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
		Remarks:
Turn-Around Time: 5 day Turn & Standard a Rush Project Name: Riverside Project #:	-energy.com       Project Manager:         (Full Validation)       Michael Cant         Bampler:       Dilos:       Ano         # of Coolers:       3       No         # of Coolers:       3       Cooler Tempineting crip:       2         Name       Type       Preservative       HEAL No.         I'       Vec Soittainer       Preservative       Preservative	
tody Eray	email or Fax#: modent @ Juc W-cncray.com aAaa	Date:     Time:     Relinquished by:       Date:     Time:     Received by       Via:     Received by       Date:     Time:       Relinquished by:     Received by       If necessary, sampled submitted to Hall Environmental may be subcontracted to other accredited laboratories.



September 16, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210 TEL: (575) 513-8988 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2009396

**RE:** Riverside

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 13 sample(s) on 9/5/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** Lab Order 2009396

Date Reported: 9/16/2020

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Delaware Client Sample ID: B.6.C **Project:** Riverside Collection Date: 9/4/2020 8:31:00 AM Lab ID: 2009396-001 Matrix: SOIL Received Date: 9/5/2020 7:45:00 AM Result **RL** Qual Units DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM Diesel Range Organics (DRO) mg/Kg 920 94 10 9/11/2020 1:53:33 AM Motor Oil Range Organics (MRO) 550 470 mg/Kg 10 9/11/2020 1:53:33 AM Surr: DNOP 0 30.4-154 S %Rec 10 9/11/2020 1:53:33 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 5 9/11/2020 10:09:47 PM 25 mg/Kg 5 Surr: BFB 105 75.3-105 %Rec 9/11/2020 10:09:47 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 9/11/2020 10:09:47 PM 0.12 mg/Kg 5 Toluene 5 ND 0.25 mg/Kg 9/11/2020 10:09:47 PM Ethylbenzene ND 0.25 mg/Kg 5 9/11/2020 10:09:47 PM Xylenes, Total 0.89 0.50 mg/Kg 5 9/11/2020 10:09:47 PM 5 9/11/2020 10:09:47 PM Surr: 4-Bromofluorobenzene 102 80-120 %Rec **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 510 60 9/14/2020 7:04:37 PM ma/Ka 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

- Н Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit POL
- Practical Quanitative Limit
- S % 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
- Р Sample pH Not In Range

Reporting Limit RL

Page 1 of 21

**Analytical Report** Lab Order 2009396

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020 Client Sample ID: B.7.C Collection Date: 9/4/2020 8:33:00 AM

Project: Riverside	Collection Date: 9/4/2020 8:33:00 AM									
Lab ID: 2009396-002	Matrix: SOIL	<b>Received Date:</b> 9/5/2020 7:45:00 AM								
Analyses	Result	RL	Qual	Units	DF	Date Analyzed				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: BRM				
Diesel Range Organics (DRO)	2900	94		mg/Kg	10	9/11/2020 2:17:28 AM				
Motor Oil Range Organics (MRO)	1900	470		mg/Kg	10	9/11/2020 2:17:28 AM				
Surr: DNOP	0	30.4-154	S	%Rec	10	9/11/2020 2:17:28 AM				
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst: RAA				
Gasoline Range Organics (GRO)	36	25		mg/Kg	5	9/11/2020 10:33:15 PM				
Surr: BFB	120	75.3-105	S	%Rec	5	9/11/2020 10:33:15 PM				
EPA METHOD 8021B: VOLATILES						Analyst: RAA				
Benzene	ND	0.12		mg/Kg	5	9/11/2020 10:33:15 PM				
Toluene	0.56	0.25		mg/Kg	5	9/11/2020 10:33:15 PM				
Ethylbenzene	0.54	0.25		mg/Kg	5	9/11/2020 10:33:15 PM				
Xylenes, Total	2.9	0.50		mg/Kg	5	9/11/2020 10:33:15 PM				
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	5	9/11/2020 10:33:15 PM				
EPA METHOD 300.0: ANIONS						Analyst: CAS				
Chloride	380	60		mg/Kg	20	9/14/2020 8:06:21 PM				

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

**Qualifiers:** 

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 21
Project: Riverside

Analytical Report Lab Order 2009396

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020 Client Sample ID: B.8.C Collection Date: 9/4/2020 8:35:00 AM

i ojecto i a cibiac									
Lab ID: 2009396-003	Matrix: SOIL	R	leceiv	ed Date:	9/5/20	20 7:45:00 AM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst: BRM			
Diesel Range Organics (DRO)	2600	94		mg/Kg	10	9/11/2020 2:41:28 AM			
Motor Oil Range Organics (MRO)	1400	470		mg/Kg	10	9/11/2020 2:41:28 AM			
Surr: DNOP	0	30.4-154	S	%Rec	10	9/11/2020 2:41:28 AM			
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst: RAA			
Gasoline Range Organics (GRO)	49	25		mg/Kg	5	9/11/2020 10:56:41 PM			
Surr: BFB	139	75.3-105	S	%Rec	5	9/11/2020 10:56:41 PM			
EPA METHOD 8021B: VOLATILES						Analyst: RAA			
Benzene	ND	0.12		mg/Kg	5	9/11/2020 10:56:41 PM			
Toluene	0.81	0.25		mg/Kg	5	9/11/2020 10:56:41 PM			
Ethylbenzene	1.2	0.25		mg/Kg	5	9/11/2020 10:56:41 PM			
Xylenes, Total	5.1	0.49		mg/Kg	5	9/11/2020 10:56:41 PM			
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	5	9/11/2020 10:56:41 PM			
EPA METHOD 300.0: ANIONS						Analyst: CAS			
Chloride	310	60		mg/Kg	20	9/14/2020 8:18:41 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 21

.

2009396-004

Riverside

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2009396

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020 Client Sample ID: B.9.C Collection Date: 9/4/2020 8:38:00 AM Matrix: SOIL Received Date: 9/5/2020 7:45:00 AM Oral Units DE D-40 Anolomod ----

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: BRM
Diesel Range Organics (DRO)	2300	90		mg/Kg	10	9/11/2020 3:05:21 AM
Motor Oil Range Organics (MRO)	1200	450		mg/Kg	10	9/11/2020 3:05:21 AM
Surr: DNOP	0	30.4-154	S	%Rec	10	9/11/2020 3:05:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	64	5.0		mg/Kg	1	9/11/2020 11:20:05 PM
Surr: BFB	424	75.3-105	S	%Rec	1	9/11/2020 11:20:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.049	0.025		mg/Kg	1	9/11/2020 11:20:05 PM
Toluene	0.94	0.050		mg/Kg	1	9/11/2020 11:20:05 PM
Ethylbenzene	1.3	0.050		mg/Kg	1	9/11/2020 11:20:05 PM
Xylenes, Total	5.2	0.099		mg/Kg	1	9/11/2020 11:20:05 PM
Surr: 4-Bromofluorobenzene	145	80-120	S	%Rec	1	9/11/2020 11:20:05 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	290	60		mg/Kg	20	9/14/2020 8:31:02 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
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 21

.

Riverside

Project:

**Analytical Report** Lab Order 2009396

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020 Client Sample ID: B.10.C

Collection Date: 9/4/2020 8:45:00 AM Received Date: 9/5/2020 7:45:00 AM

Lab ID: 2009396-005	Matrix: SOIL	Rece	eived Date:	9/5/20	20 7:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	710	9.9	mg/Kg	1	9/11/2020 3:29:24 AM
Motor Oil Range Organics (MRO)	420	50	mg/Kg	1	9/11/2020 3:29:24 AM
Surr: DNOP	64.6	30.4-154	%Rec	1	9/11/2020 3:29:24 AM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/11/2020 11:43:31 PM
Surr: BFB	95.0	75.3-105	%Rec	1	9/11/2020 11:43:31 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	9/11/2020 11:43:31 PM
Toluene	ND	0.050	mg/Kg	1	9/11/2020 11:43:31 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/11/2020 11:43:31 PM
Xylenes, Total	ND	0.099	mg/Kg	1	9/11/2020 11:43:31 PM
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	9/11/2020 11:43:31 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	330	60	mg/Kg	20	9/14/2020 8:43:22 PM

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

**Qualifiers:** 

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 21

2009396-006

Riverside

**Project:** 

Lab ID:

**Analytical Report** Lab Order 2009396

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020 Client Sample ID: SW.11.C Collection Date: 9/4/2020 9:15:00 AM

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS					Analyst: BRM
Diesel Range Organics (DRO)	100	9.3		mg/Kg	1	9/11/2020 3:53:20 AM
Motor Oil Range Organics (MRO)	72	46		mg/Kg	1	9/11/2020 3:53:20 AM
Surr: DNOP	42.8	30.4-154		%Rec	1	9/11/2020 3:53:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	5.5	4.9		mg/Kg	1	9/12/2020 12:06:58 AM
Surr: BFB	120	75.3-105	S	%Rec	1	9/12/2020 12:06:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/12/2020 12:06:58 AM
Toluene	ND	0.049		mg/Kg	1	9/12/2020 12:06:58 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/12/2020 12:06:58 AM
Xylenes, Total	0.099	0.099		mg/Kg	1	9/12/2020 12:06:58 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	9/12/2020 12:06:58 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	780	60		mg/Kg	20	9/14/2020 8:55:42 PM

Matrix: SOIL

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
- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 21

Project: Riverside

Analytical Report Lab Order 2009396

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020 Client Sample ID: SW.12.C Collection Date: 9/4/2020 9:17:00 AM Pageiyad Date: 9/5/2020 7:45:00 AM

Lab ID: 2009396-007	Matrix: SOIL	Rec	ceived Date:	9/5/20	020 7:45:00 AM
Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	1100	19	mg/Kg	2	9/11/2020 10:17:47 PM
Motor Oil Range Organics (MRO)	310	97	mg/Kg	2	9/11/2020 10:17:47 PM
Surr: DNOP	80.8	30.4-154	%Rec	2	9/11/2020 10:17:47 PM
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: RAA
Gasoline Range Organics (GRO)	7.4	4.9	mg/Kg	1	9/12/2020 12:30:28 AM
Surr: BFB	141	75.3-105	S %Rec	1	9/12/2020 12:30:28 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	9/12/2020 12:30:28 AM
Toluene	ND	0.049	mg/Kg	1	9/12/2020 12:30:28 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2020 12:30:28 AM
Xylenes, Total	0.11	0.099	mg/Kg	1	9/12/2020 12:30:28 AM
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	9/12/2020 12:30:28 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	1500	60	mg/Kg	20	9/14/2020 9:08:02 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 21

**Analytical Report** Lab Order 2009396

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020 Client Sample ID: SW.13.C

Project:	Riverside		<b>Collection Date:</b> 9/4/2020 9:20:00 AM								
Lab ID:	2009396-008	Matrix: SOIL	ŀ	Receiv	ed Date:	9/5/20	20 7:45:00 AM				
Analyses		Result	RL	L Qual Units		DF	Date Analyzed				
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS					Analyst: BRM				
Diesel R	ange Organics (DRO)	4200	99		mg/Kg	10	9/11/2020 10:41:53 PM				
Motor O	il Range Organics (MRO)	1900	500		mg/Kg	10	9/11/2020 10:41:53 PM				
Surr:	DNOP	0	30.4-154	S	%Rec	10	9/11/2020 10:41:53 PM				
EPA ME	THOD 8015D: GASOLINE I	RANGE					Analyst: RAA				
Gasoline	e Range Organics (GRO)	160	25		mg/Kg	5	9/12/2020 12:54:04 AM				
Surr:	BFB	298	75.3-105	S	%Rec	5	9/12/2020 12:54:04 AM				
EPA ME	THOD 8021B: VOLATILES						Analyst: RAA				
Benzene	9	ND	0.12		mg/Kg	5	9/12/2020 12:54:04 AM				
Toluene		2.3	0.25		mg/Kg	5	9/12/2020 12:54:04 AM				
Ethylber	izene	1.7	0.25		mg/Kg	5	9/12/2020 12:54:04 AM				
Xylenes,	, Total	8.2	0.50		mg/Kg	5	9/12/2020 12:54:04 AM				
Surr:	4-Bromofluorobenzene	113	80-120		%Rec	5	9/12/2020 12:54:04 AM				
EPA ME	THOD 300.0: ANIONS						Analyst: CAS				
Chloride		1800	60		mg/Kg	20	9/14/2020 9:20:22 PM				

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

**Qualifiers:** 

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

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 21

.

Riverside

Project:

**Analytical Report** Lab Order 2009396

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020

Client Sample ID: SW.14.C Collection Date: 9/4/2020 9:25:00 AM **Received Date:** 9/5/2020 7:45:00 AM

Lab ID: 2009396-009	Matrix: SOIL	Received Date: 9/5/2020 7:45:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM			
Diesel Range Organics (DRO)	150	9.6	mg/Kg	1	9/10/2020 10:59:59 PM			
Motor Oil Range Organics (MRO)	87	48	mg/Kg	1	9/10/2020 10:59:59 PM			
Surr: DNOP	93.6	30.4-154	%Rec	1	9/10/2020 10:59:59 PM			
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: RAA			
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/12/2020 1:17:38 AM			
Surr: BFB	90.8	75.3-105	%Rec	1	9/12/2020 1:17:38 AM			
EPA METHOD 8021B: VOLATILES					Analyst: RAA			
Benzene	ND	0.025	mg/Kg	1	9/12/2020 1:17:38 AM			
Toluene	ND	0.050	mg/Kg	1	9/12/2020 1:17:38 AM			
Ethylbenzene	ND	0.050	mg/Kg	1	9/12/2020 1:17:38 AM			
Xylenes, Total	ND	0.099	mg/Kg	1	9/12/2020 1:17:38 AM			
Surr: 4-Bromofluorobenzene	97.8	80-120	%Rec	1	9/12/2020 1:17:38 AM			
EPA METHOD 300.0: ANIONS					Analyst: CAS			
Chloride	390	60	mg/Kg	20	9/14/2020 9:32:43 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
- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 21

Riverside

Project:

**Analytical Report** Lab Order 2009396

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020

Client Sample ID: SW.15.C Collection Date: 9/4/2020 9:28:00 AM **Deceived Deter** 0/5/2020 7:45:00 AM

Lab ID: 2009396-010	Matrix: SOIL	<b>Received Date:</b> 9/5/2020 7:45:00 AM						
Analyses	Result	RL Qua	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/10/2020 11:23:53 PM			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/10/2020 11:23:53 PM			
Surr: DNOP	84.8	30.4-154	%Rec	1	9/10/2020 11:23:53 PM			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: RAA			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/12/2020 1:41:14 AM			
Surr: BFB	92.8	75.3-105	%Rec	1	9/12/2020 1:41:14 AM			
EPA METHOD 8021B: VOLATILES					Analyst: RAA			
Benzene	ND	0.025	mg/Kg	1	9/12/2020 1:41:14 AM			
Toluene	ND	0.049	mg/Kg	1	9/12/2020 1:41:14 AM			
Ethylbenzene	ND	0.049	mg/Kg	1	9/12/2020 1:41:14 AM			
Xylenes, Total	ND	0.099	mg/Kg	1	9/12/2020 1:41:14 AM			
Surr: 4-Bromofluorobenzene	97.5	80-120	%Rec	1	9/12/2020 1:41:14 AM			
EPA METHOD 300.0: ANIONS					Analyst: CAS			
Chloride	210	60	mg/Kg	20	9/14/2020 10:09:44 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
- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 10 of 21

2009396-011

Riverside

**Project:** 

Lab ID:

Analytical Report Lab Order 2009396

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020 Client Sample ID: SW.16.C Collection Date: 9/4/2020 9:30:00 AM

Received Date: 9/5/2020 7:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	24	9.7	mg/Kg	1	9/10/2020 11:47:40 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/10/2020 11:47:40 PM
Surr: DNOP	66.2	30.4-154	%Rec	1	9/10/2020 11:47:40 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	9/14/2020 10:22:04 PM
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst: DJF
Benzene	ND	0.025	mg/Kg	1	9/11/2020 2:39:18 PM
Toluene	0.16	0.050	mg/Kg	1	9/11/2020 2:39:18 PM
Ethylbenzene	0.077	0.050	mg/Kg	1	9/11/2020 2:39:18 PM
Xylenes, Total	0.37	0.099	mg/Kg	1	9/11/2020 2:39:18 PM
Surr: 1,2-Dichloroethane-d4	93.5	70-130	%Rec	1	9/11/2020 2:39:18 PM
Surr: 4-Bromofluorobenzene	98.1	70-130	%Rec	1	9/11/2020 2:39:18 PM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	9/11/2020 2:39:18 PM
Surr: Toluene-d8	103	70-130	%Rec	1	9/11/2020 2:39:18 PM
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst: DJF
Gasoline Range Organics (GRO)	6.2	5.0	mg/Kg	1	9/11/2020 2:39:18 PM
Surr: BFB	101	70-130	%Rec	1	9/11/2020 2:39:18 PM

Matrix: SOIL

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 21

**Project:** Riverside

Analytical Report Lab Order 2009396

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020

Client Sample ID: SW.17.C Collection Date: 9/4/2020 9:32:00 AM Received Date: 9/5/2020 7:45:00 AM

Lab ID: 2009396-012	Matrix: SOIL	Rece	ived Date:	9/5/20	20 7:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	11	9.9	mg/Kg	1	9/11/2020 12:11:28 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/11/2020 12:11:28 AM
Surr: DNOP	74.0	30.4-154	%Rec	1	9/11/2020 12:11:28 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	59	mg/Kg	20	9/14/2020 10:34:24 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: DJF
Benzene	ND	0.024	mg/Kg	1	9/10/2020 5:54:25 PM
Toluene	ND	0.049	mg/Kg	1	9/10/2020 5:54:25 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/10/2020 5:54:25 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/10/2020 5:54:25 PM
Surr: 1,2-Dichloroethane-d4	93.4	70-130	%Rec	1	9/10/2020 5:54:25 PM
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	9/10/2020 5:54:25 PM
Surr: Dibromofluoromethane	110	70-130	%Rec	1	9/10/2020 5:54:25 PM
Surr: Toluene-d8	102	70-130	%Rec	1	9/10/2020 5:54:25 PM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/10/2020 5:54:25 PM
Surr: BFB	99.7	70-130	%Rec	1	9/10/2020 5:54:25 PM

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 21

.

Project: Riverside

Analytical Report Lab Order 2009396

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/16/2020

Client Sample ID: SW.18.C Collection Date: 9/4/2020 9:40:00 AM Received Date: 9/5/2020 7:45:00 AM

Lab ID: 2009396-013	Matrix: SOIL	Rece	eived Date:	9/5/20	20 7:45:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	110	9.5	mg/Kg	1	9/10/2020 2:39:20 PM
Motor Oil Range Organics (MRO)	57	47	mg/Kg	1	9/10/2020 2:39:20 PM
Surr: DNOP	54.8	30.4-154	%Rec	1	9/10/2020 2:39:20 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	250	60	mg/Kg	20	9/14/2020 10:46:44 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: DJF
Benzene	ND	0.024	mg/Kg	1	9/10/2020 7:20:06 PM
Toluene	ND	0.048	mg/Kg	1	9/10/2020 7:20:06 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/10/2020 7:20:06 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/10/2020 7:20:06 PM
Surr: 1,2-Dichloroethane-d4	92.8	70-130	%Rec	1	9/10/2020 7:20:06 PM
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	9/10/2020 7:20:06 PM
Surr: Dibromofluoromethane	108	70-130	%Rec	1	9/10/2020 7:20:06 PM
Surr: Toluene-d8	106	70-130	%Rec	1	9/10/2020 7:20:06 PM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/10/2020 7:20:06 PM
Surr: BFB	98.9	70-130	%Rec	1	9/10/2020 7:20:06 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 21

Client: Project:	Lucid Eı Riversid	nergy Delav e	ware								
Sample ID: MB	-55140	0 SampType: mblk TestCode: EPA Method 3							s		
Client ID: PB	S	Batch	n ID: 55	140	F	RunNo: <b>7</b> 1	1848				
Prep Date: 9/*	14/2020	Analysis D	ate: 9/	14/2020	SeqNo: 2514826 Units: mg/Kg						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LCS	6-55140	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCS	SS	Batch	n ID: 55	140	F	RunNo: <b>7</b> 1	1848				
Prep Date: 9/*	14/2020	Analysis D	ate: 9/	14/2020	S	SeqNo: 25	514827	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.7	90	110			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 21

2009396

16-Sep-20

Client: Lucid	Energy Delaware	
Project: Rivers	ide	
Sample ID: LCS-55057	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 55057	RunNo: 71721
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2509065 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	55 10 50.00	0 110 70 130
Surr: DNOP	4.9 5.000	97.2 30.4 154
Sample ID: MB-55057	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 55057	RunNo: 71721
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2509066 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	12 10.00	116 30.4 154
Sample ID: MB-55054	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 55054	RunNo: 71762
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2510693 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	9.6 10.00	96.2 30.4 154
Sample ID: LCS-55054	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 55054	RunNo: 71762
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2510719 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	44 10 50.00	0 88.5 70 130
Surr: DNOP	4.5 5.000	89.2 30.4 154
Sample ID: LCS-55019	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 55019	RunNo: 71721
Prep Date: 9/9/2020	Analysis Date: 9/10/2020	SeqNo: 2511324 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	47 10 50.00	0 94.4 70 130
Surr: DNOP	4.3 5.000	85.1 30.4 154

#### **Qualifiers:**

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2009396

16-Sep-20

	Lucid Energ Riverside	gy Delaw	are								
Sample ID: MB-5501	9	SampTy	/pe: <b>ME</b>	BLK	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS		Batch	ID: 55	019	R	unNo: <b>7</b> 1	1721				
Prep Date: 9/9/2020	<b>D</b> A	nalysis Da	ate: <b>9/</b>	10/2020	S	eqNo: 25	511325	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DF	RO)	ND	10								
Motor Oil Range Organics (	(MRO)	ND	50								
Surr: DNOP		9.3		10.00		92.5	30.4	154			

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2009396

16-Sep-20

Client: Lucid 2 Project: Rivers	Energy Delav ide	ware								
Sample ID: Ics-54986	SampT	ype: LC	S	Test	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	n ID: 54	986	R	lunNo: 7	1790				
Prep Date: 9/6/2020	Analysis D	0ate: <b>9/</b>	11/2020	S	eqNo: 2	511831	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	25.00	0	97.4	72.5	106			
Surr: BFB	1200		1000		116	75.3	105			S
Sample ID: mb-54986	SampT	ype: ME	BLK	Test	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	n ID: 54	986	R	lunNo: 7	1790				
Prep Date: 9/6/2020	Analysis D	0ate: <b>9/</b>	11/2020	S	eqNo: 2	511833	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	75.3	105			S

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 21

2009396

16-Sep-20

	Lucid Energy De Riverside	aware								
Sample ID: LCS-549	86 Sam	pType: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Ba	tch ID: 54	986	F	RunNo: 7	1774				
Prep Date: 9/6/202	0 Analysis	s Date: 9/	11/2020	S	SeqNo: 2	511426	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	90.0	80	120			
Toluene	0.91	0.050	1.000	0	91.0	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.3	80	120			
Surr: 4-Bromofluoroben:	zene 1.0		1.000		104	80	120			
Sample ID: mb-5498	Se Sam	рТуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Ba	tch ID: 54	986	F	RunNo: <b>7</b> '	1774				
Prep Date: 9/6/202	0 Analysis	a Date: 9/	11/2020	S	SeqNo: 2	511428	Units: <b>mg/K</b>	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								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluoroben;	zene 1.0		1.000		101	80	120			

**Qualifiers:** 

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Limit RL

Page 18 of 21

2009396

16-Sep-20

Client: Lucid En Project: Riverside	ergy Dela	ware								
Sample ID: mb-55024	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Vola	tiles Short	List	
Client ID: PBS	Batc	h ID: 55	024	F	RunNo: 7	1767				
Prep Date: 9/8/2020	Analysis [	Date: <b>9/</b>	10/2020	S	SeqNo: 2	510949	Units: mg/k	٤g		
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	0.47		0.5000		93.7	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.50		0.5000		101	70	130			
Sample ID: Ics-55024	Samp	Гуре: <b>LC</b>	S4	Tes	tCode: EF	PA Method	8260B: Vola	tiles Short	List	
Client ID: BatchQC	Batc	h ID: 550	024	F	RunNo: <b>7</b> ′	1767				
Prep Date: 9/8/2020	Analysis [	Date: <b>9/</b>	10/2020	S	SeqNo: 2	510950	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.2	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.5	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			
Sample ID: 2009396-011ams	Samp	Гуре: <b>МS</b>	54	Tes	tCode: EF	PA Method	8260B: Vola	tiles Short	List	
Client ID: SW.16.C	Batc	h ID: 550	024	F	RunNo: <b>7</b> ′	1767				
Prep Date: 9/8/2020	Analysis [	Date: 9/	10/2020	S	SeqNo: 2	510952	Units: <b>mg/k</b>	٤g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9940	0	95.6	71.1	115			
Toluene	1.2	0.050	0.9940	0.1600	106	79.6	132			
Ethylbenzene	1.2	0.050	0.9940	0.07741	109	83.8	134			
Xylenes, Total	3.8	0.099	2.982	0.3711	115	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.47		0.4970		95.3	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.4970		103	70	130			
	0.51									
Surr: Dibromofluoromethane	0.51		0.4970		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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Client:	Lucid Energy Delaware
Project:	Riverside

Sample ID: 2009396-011ams	sd SampT	Гуре: <b>МS</b>	SD4	Tes	Code: EPA Method 8260B: Volatiles Short List							
Client ID: SW.16.C	Batc	h ID: 550	024	RunNo: 71767								
Prep Date: 9/8/2020	Analysis [	Date: <b>9/</b>	10/2020	S	SeqNo: 2	510953	Units: <b>mg/k</b>	íg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.93	0.025	0.9843	0	94.5	71.1	115	2.13	20			
Toluene	1.2	0.049	0.9843	0.1600	109	79.6	132	1.12	20			
Ethylbenzene	1.2	0.049	0.9843	0.07741	111	83.8	134	1.27	20			
Xylenes, Total	3.7	0.098	2.953	0.3711	112	82.4	132	3.06	20			
Surr: 1,2-Dichloroethane-d4	0.47		0.4921		94.6	70	130	0	0			
Surr: 4-Bromofluorobenzene	0.48		0.4921		97.8	70	130	0	0			
Surr: Dibromofluoromethane	0.51		0.4921		104	70	130	0	0			
Surr: Toluene-d8	0.50		0.4921		102	70	130	0	0			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 21

WO#: 2009396

16-Sep-20

Client: Project:	Lucid Ene Riverside	ergy Delaw	vare								
Sample ID:	: mb-55024	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batch	ID: 55	024	F	RunNo: 7	1767				
Prep Date:	9/8/2020	Analysis D	ate: <b>9/</b>	10/2020	5	SeqNo: 2	511217	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Ranç Surr: BFB	ge Organics (GRO)	ND 510	5.0	500.0		102	70	130			
Sample ID:	: Ics-55024	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	LCSS	Batch	ID: 55	024	F	RunNo: 7	1767				
Prep Date:	9/8/2020	Analysis D	ate: <b>9/</b>	10/2020	5	SeqNo: 2	511218	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	22	5.0	25.00	0	87.6	70	130			
Surr: BFB		510		500.0		102	70	130			
Sample ID:	: 2009396-012ams	SampT	ype: <b>MS</b>	6	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	SW.17.C	Batch	ID: 55	024	F	RunNo: 7	1767				
Prep Date:	9/8/2020	Analysis D	ate: <b>9/</b>	10/2020	S	SeqNo: 2	511222	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	23	4.9	24.65	0	92.6	49.2	122			
Surr: BFB		490		493.1		100	70	130			
Sample ID:	: 2009396-012amsd	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	SW.17.C	Batch	ID: 55	024	F	RunNo: 7	1767				
Prep Date:	9/8/2020	Analysis D	ate: <b>9/</b>	10/2020	S	SeqNo: 2	511223	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
<u> </u>	0 1 (0.0.0)				-			100			
Gasoline Rang	ge Organics (GRO)	23	4.9	24.41	0	94.0	49.2	122	0.562	20	

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2009396

16-Sep-20

•

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-3	ntal Analysis Lat 4901 Haw Albuquerque, NI 1975 FAX: 505-3 ts.hallenvironmet	kins NE M 87109 <b>Sam</b> 45-4107	nple Log-In (	Check List
Client Name: Lucid Energy Delaware	Work Order Num	ber: 2009396		RcptNo	: 1
Received By: Juan Rojas	9/5/2020 7:45:00 A	M	Guaran g		
Completed By: Juan Rojas Reviewed By: JR 9 6 20	9/5/2020 8:53:49 A	M	(Juan Eng		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples	?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received at a temperature	e of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated test	s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope	rly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottles?		Yes	No 🔽	NA 🗌	
9. Received at least 1 vial with headspace <1/	4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any sample containers received brok	en?	Yes	No 🔽	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	bottles checked for pH:	12 unless noted)
12. Are matrices correctly identified on Chain o	f Custody?	Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🖌	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	SPA 9.5-20
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🔽	_
Person Notified:	Date	<b></b>			
By Whom:	Via:	eMail	] Phone 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u>	Cool Intert	Coal Dat	0:- 15		
Cooler No         Temp °C         Condition         S           1         1.4         Good         S	Seal Intact Seal No	Seal Date	Signed By		
2 1.3 Good					
			]		

Project Name:     Project Name:       Project Name:     P	Chain-of-Custody Record
A 4001 Hawkins NE 4001 Hawkins	VL
Image: Second	~
Image: Second Solution       I	Project #:
Image: Second	
min       m	Proje
and       a	N
Time	Samo
iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	On Ice:
Implementances:	# of C(
#       Type       #       Type       #       Type         Preservative       HEAL No.       Preservative       HEAL No.       Preservative       HEAL No.         Preservative       Preservative       Preservative       Preservative       Preservative       Preservative         Preservative <td< td=""><td>Cooler</td></td<>	Cooler
-001     X     X     -     X     -     -       -002     X     X     X     -     X     -     -       -002     X     X     X     X     -     X     -       -002     X     X     X     X     -     -     -       -002     X     X     X     X     -     -     -       -004     X     X     X     X     X     -     -       -004     X     X     X     X     X     -     -       -004     X     X     X     X     X     -     -       -004     -004     X     X     X     X     -     -       -004     -004     X     X     X     X     -     -       -004     -004     X     X     X     X     -       -004     -004     X     X     X     X     -       -010     X     X     X     X     -     -       -011     X     X     X     X     -     -       Max     -010     X     X     -     -     -       Max     Max     -	Container Tvpe and #
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
-003       ×××       ××	
-004       ××       × <td></td>	
Image: state of the state	
-006       ×	
-001-201       X<	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	
i via: Date Time Remarks: Via: Date Time Remarks: Via: Date Time	
Image: Second	
UMMULE Date Time Remarks:	
MMMML J14/av 1009 Via: Date Time	Received by
Via: V Date Time	(IN
	Received by
A remain alshe zivit	1

00

<i>Received by OCD: 10/29/2021</i>	11:21:33 AM							Page 94 of 140
RY								
HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request		_			+-+			
			+		+			ytical r
<b>ENVIRONME</b> <b>YSIS LABOR/</b> environmental.com Albuquerque, NM 87109 Fax 505-345-4107 allysis Request								
<b>TIRONN</b> <b>S LABOI</b> mental.com erque, NM 87 505-345-4107 Request	(Present/Absent) (Present)	stoT				5 5 5		ed on t
<b>TIRO</b> <b>LAE</b> mental.cc erque, NI 505-345- Recruest	(AOV-im92) 0	728						y notat
<b>SIS</b> SIC viron viron buqu Fax Sis	(AOV) 0							e clearl
HALL ENVIRON ANALYSIS LABC www.hallenvironmental.com kins NE - Albuquerque, NM 8 345-3975 Fax 505-345-41 Analysis Request	E' BL' NO <sup>3</sup> ' NO <sup>5</sup> ' EO <sup>⊄'</sup> 2O <sup>⊄</sup>		<					will by
ALI Vw.ha NE 3975	A 8 Metals							ed dat
HALL ANAL www.ha Hawkins NE 505-345-3975	3 (Method 504.1) Hs by 8310 or 8270SIMS	10000						ontract
HALI ANA www.h 4901 Hawkins NE Tel. 505-345-397	1 Pesticides/8082 PCB's			+ +	+		+	
4901	1:8015D(GRO / DRO / MRO)	>		+ +-	+ +		+ $+$ $+$	arks:
	(1208) <b>22011 / JUTIN</b> / XE	ата 👌					+	Remarks:
	().			2		-		of this
	ng	26	$\sim$					Time Time
		00003	ē					a a a a a a a a a a a a a a a a a a a
0	1. 4-6. 14 1. 4-6. 14	201						Date Date Date
Ber		U U						nies.
	SPI: (							Unit C
le l	Project Manager: Michael Cc Sampler: MC On Ice: B-Yes # of Coolers: 2 Cooler Temp(including CF):	Type	Ĩ			×		Via: Via: Via:
	Project Manager: Michael Sampler: MC On Ice: B-1 # of Coolers: C Cooler Temp(includi	- <u>   </u>	Jac		<u>s</u> 2		+ $+$ $+$	
urn-Around Standard Project Name Project #:	ict M.	and	Serle					d to off
Turn-Arou D Stand Project N	Project Mana Michoc Sampler: M On Ice: Coolers:	Type and #	402 Dailyar					Received by Received by
								subco
L d	Ducid-energy.com							may be
	L Vali	ре						nental
R.	EVer	, Nar	S.					
dp		Sample Name	2.81.MC					HI. SHE
sto e	محمد المحمد المحمل ا لمحمل المحمل المحم ل محمل المحمل ا	San	5					d by:
Cu Cu	A Cor							Relinquished by: Relinquished by: Relinquished by: MMMM
Client: Lucid Energy Mailing Address: on Eile	email or Fax#:\אבלאיל (יוכלא advac Package: advac Package: advac Package: advact Package: advact Compliance advact Compl	Matrix	)					Time:     Relinquished by:     Received by:     Via:     Date     Time     Remarks:       1000     1000     1000     1000     1000     1000       11me:     Relinquished by:     .     Received by:     Via:     Date     Time       1000     1000     1000     1000     1000     1000       1000     1000     1000     1000     1000       1000     1000     1000     1000       1000     1000     1000     1000       1000     1000     1000     1000       1000     1000     1000     1000       1000     1000     1000     1000       1000     1000     1000     1000
Iress 14	kage: d Dn: /pe)	6	Utru					
B Add	or F <sub>6</sub> C Pacl ditation	Time	5			_		Time: Time: Time: If neces
Client: Client: O	email or Fax#: <u>v</u> QA/QC Package: Candard Accreditation: NELAC DEDD (Type)	Mirt 102	1410					Date: Time: C//H/3 1000 Date: Time: ACO AO
$ \bigcirc   \ge    \triangle$ Released to Imaging: 12/3/202			2					a U la R



October 27, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2010A24

RE: Riverside

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/22/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2010A24

Date Reported: 10/27/2020

CLIENT: Lucid Energy Delaware		Cl	ient Sa	ample II	<b>D:</b> B-	19-C					
Project: Riverside	Collection Date: 10/21/2020 12:00:00 PM										
Lab ID: 2010A24-001	Matrix: SOIL		Recei	ved Dat	<b>e:</b> 10	/22/2020 7:40:00 AM					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed Batch					
EPA METHOD 300.0: ANIONS						Analyst: CAS					
Chloride	ND	60		mg/Kg	20	10/23/2020 9:24:09 PM 56009					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: BRM					
Diesel Range Organics (DRO)	220	9.8		mg/Kg	1	10/23/2020 12:31:47 PM 55992					
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	10/23/2020 12:31:47 PM 55992					
Surr: DNOP	121	30.4-154		%Rec	1	10/23/2020 12:31:47 PM 55992					
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst: RAA					
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/24/2020 4:32:18 AM 55990					
Surr: BFB	105	75.3-105	S	%Rec	5	10/24/2020 4:32:18 AM 55990					
EPA METHOD 8021B: VOLATILES						Analyst: RAA					
Benzene	ND	0.12		mg/Kg	5	10/24/2020 4:32:18 AM 55990					
Toluene	ND	0.24		mg/Kg	5	10/24/2020 4:32:18 AM 55990					
Ethylbenzene	ND	0.24		mg/Kg	5	10/24/2020 4:32:18 AM 55990					
Xylenes, Total	0.48	0.48		mg/Kg	5	10/24/2020 4:32:18 AM 55990					
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	5	10/24/2020 4:32:18 AM 55990					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

**Analytical Report** 

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2010A24

Date Reported: 10/27/2020

CLIENT: Lucid Energy Delaware		Cl	lient S	ample II	<b>D:</b> B-	20-С						
Project: Riverside	Collection Date: 10/21/2020 12:05:00 PM											
Lab ID: 2010A24-002	Matrix: SOIL	/22/2020 7:40:00 AM										
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS						Analyst:	CAS					
Chloride	ND	60		mg/Kg	20	10/23/2020 10:26:11 PM	56009					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	BRM					
Diesel Range Organics (DRO)	180	9.8		mg/Kg	1	10/23/2020 12:41:31 PM	55992					
Motor Oil Range Organics (MRO)	93	49		mg/Kg	1	10/23/2020 12:41:31 PM	55992					
Surr: DNOP	111	30.4-154		%Rec	1	10/23/2020 12:41:31 PM	55992					
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst:	RAA					
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/24/2020 6:05:53 AM	55990					
Surr: BFB	106	75.3-105	S	%Rec	5	10/24/2020 6:05:53 AM	55990					
EPA METHOD 8021B: VOLATILES						Analyst:	RAA					
Benzene	ND	0.12		mg/Kg	5	10/24/2020 6:05:53 AM	55990					
Toluene	ND	0.24		mg/Kg	5	10/24/2020 6:05:53 AM	55990					
Ethylbenzene	ND	0.24		mg/Kg	5	10/24/2020 6:05:53 AM	55990					
Xylenes, Total	ND	0.48		mg/Kg	5	10/24/2020 6:05:53 AM	55990					
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	5	10/24/2020 6:05:53 AM	55990					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 6

Client: Project:	Lucid Er Riverside	ergy Delav	ware								
Sample ID: MB-	-56009	SampT	ype: ml	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: PBS	6	Batcl	h ID: 56	009	F	RunNo: 72	2886				
Prep Date: 10/	/23/2020	Analysis D	Date: 10	)/23/2020	5	SeqNo: 25	563358	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LCS	5-56009	SampT	ype: Ics	5	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCS	S	Batcl	h ID: 56	009	F	RunNo: 72	2886				
Prep Date: 10/	/23/2020	Analysis D	Date: 10	)/23/2020	S	SeqNo: 25	563359	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.0	90	110			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

2010A24

27-Oct-20

Client: Lucid Project: River	Energy Delay	ware								
Sample ID: LCS-55992	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: 55	992	F	RunNo: 72	2876				
Prep Date: 10/22/2020	Analysis D	ate: 10	0/23/2020	S	SeqNo: 2	562831	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.8	70	130			
Surr: DNOP	4.7		5.000		93.4	30.4	154			
Sample ID: MB-55992	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	n ID: 55	992	F	RunNo: 72	2876				
Prep Date: 10/22/2020	Analysis D	ate: 10	)/23/2020	S	SeqNo: 2	562833	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.5	30.4	154			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

2010A24

27-Oct-20

	d Energy Dela rside	ware										
Sample ID: Ics-55990	Samp	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e			
Client ID: LCSS	Batc	h ID: 55	990	F	RunNo: <b>72897</b>							
Prep Date: 10/22/2020	Analysis I	Date: 10	)/24/2020	S	SeqNo: 2	562395	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRC	) 21	5.0	25.00	0	85.0	72.5	106					
Surr: BFB	1100		1000		107	75.3	105			S		
Sample ID: mb-55990	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e			
Client ID: PBS	Batc	h ID: 55	990	F	RunNo: 72	2897						
Prep Date: 10/22/2020	Analysis [	Date: 10	)/24/2020	S	SeqNo: 2	562397	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRC	) ND	5.0										
Surr: BFB	960		1000		96.1	75.3	105					

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

2010A24

27-Oct-20

Client:Lucid EnProject:Riverside	ergy Dela e	ware										
Sample ID: 2010a24-001ams	Samp	Туре: <b>МS</b>	6	Tes	tCode: EF							
Client ID: B-19-C	Batc	h ID: 55	990	F	RunNo: 72							
Prep Date: 10/22/2020	Analysis [	Date: 10	)/24/2020	S	SeqNo: 2	562427	Units: mg/k	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.90	0.12	0.9911	0	90.8	76.3	120					
Toluene	1.0	0.25	0.9911	0.1186	93.4	78.5	120					
Ethylbenzene	1.1	0.25	0.9911	0.1067	96.9	78.1	124					
Xylenes, Total	3.4	0.50	2.973	0.4838	98.7	79.3	125					
Surr: 4-Bromofluorobenzene	5.0		4.955		101	80	120					
Sample ID: 2010a24-001ams	d Samp	Туре: <b>МS</b>	SD.	Tes	tCode: EF	PA Method	8021B: Vola	tiles				
Client ID: B-19-C	Batc	h ID: 559	990	F	RunNo: 72	2897						
Prep Date: 10/22/2020	Analysis [	Date: 10	)/24/2020	S	SeqNo: 2	562428	Units: mg/k	٢g				
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.85	0.12	0.9785	0	86.9	76.3	120	5.73	20			
Toluene	0.98	0.24	0.9785	0.1186	88.5	78.5	120	5.89	20			
Ethylbenzene	1.0	0.24	0.9785	0.1067	92.9	78.1	124	4.97	20			
Xylenes, Total	3.2	0.49	2.935	0.4838	93.2	79.3	125	5.98	20			
Surr: 4-Bromofluorobenzene	5.0		4.892		103	80	120	0	0			
Sample ID: LCS-55990	Samp	Туре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles				
Client ID: LCSS	Batc	h ID: 559	990	F	RunNo: 72	2897						
Prep Date: 10/22/2020	Analysis [	Date: 10	)/24/2020	S	SeqNo: 2	562444	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.92	0.025	1.000	0	92.3	80	120					
Toluene	0.96	0.050	1.000	0	95.7	80	120					
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120					
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120					
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120					
Sample ID: mb-55990	Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles				
Client ID: PBS	Batc	h ID: 559	990	F	RunNo: 72	2897						
Prep Date: 10/22/2020	Analysis [	Date: 10	)/24/2020	S	SeqNo: 2	562446	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										
Aylenes, rotar	ND	0.10										

#### Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6

WO#:	2010A24

27-Oct-20

Page	<i>102</i>	of	140

.

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	ental Analysis Labore 4901 Hawkin Albuquerque, NM 8 3975 FAX: 505-345 ts.hallenvironmental	7109 <b>San</b> 4107	nple Log-In Cheo	ck List
Client Name: Lucid Energy Del	aware Work Order Num	ber: 2010A24		RcptNo: 1	
Received By: Isaiah Ortiz	10/22/2020 7:40:00	0 AM	INO	4	
Completed By: Emily Mocho	10/22/2020 8:08:02	2 AM			
Reviewed By: 517 10	. 22:20				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In		_			
3. Was an attempt made to cool the	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 OI	NG) properly preserved?	Yes 🖌	No 🗌		
8. Was preservative added to bottle	s?	Yes	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. Does paperwork match bottle lab		Yes 🔽	No 🗌	bottles checked for pH:	
(Note discrepancies on chain of c				(<2 or >12 u	nless noted)
2. Are matrices correctly identified o		Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what analyses were req		Yes 🗹	No 🗌	10	Japla
<ol> <li>Were all holding times able to be (If no, notify customer for authoriz</li> </ol>		Yes 🗹	No 🗌	Checked by: JR	0122120
Special Handling (if applicab	<u>le)</u>		, ,		
15. Was client notified of all discrepa	ncies with this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date		and the second second		
By Whom:	Via:	eMail P	hone 🗌 Fax	In Person	
Regarding:	ANALY INCLUDES A ANY INCLUDES INCLUDES AN ANALY OF THE ACCOUNTY OF THE ANALY OF THE ANALY OF THE ANALY OF THE A				
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C Con 1 1.8 Good	dition Seal Intact Seal No Not Present	Seal Date	Signed By		

Page 1 of 1

Receive	ed by	<b>0</b> C	D: 10	/29/	2021	11:2	<b>1:33</b> A	4 <i>M</i>																Pa	ge 103	of 140
;	AALL ENVIKONMENIAL ANAI YSTS LABODATODV	2																								
i	ENVIKONMENIAL VSTSIAROPATOP	)																								ort.
Ĩ	╏╏	ζ	ი	,																						cal rep
ž			environmental.com Albuquerque, NM 87109	2 20	5	1					81		-						Ξ.		-	17				analytic
	ZZ	ś		Fax 505-345-4107	st 1	-					2				1											n the a
	ע צ ⊴	5 3	ue. <sup>N</sup>	178-2	anes	(tuə	sdA\t	uəse				Total Co							-	-						ated or
		)	Jergi	202	Red	_			(A(			S) 0728										-				rly nota
			bugi	Fax	lysis			tare the				v) 0928									-					e clear
	⊔ ≯		allen - Al		Analysis Request	⁺OS	PO₄,	' <sup>z</sup> Ol			_	cj)e' e		X					_							will be
	ANAL		www.naiienvironmentai.com ins NE - Albuquerque, NM	Tel 505-345-3975		-				_		8 АЯЭЯ									8					d data
			kins	45-2		5	WIS		_			d eHA9														ntracte
-	_	•	Haw	05-50								N) 803														ub-cor
12			www.n 4901 Hawkins NE	9						_		9 1808 P												i.		Any s
			4	-								08:H9T	X	$\times$										Remarks		ibility.
	識				1	(12	ງ <del>8) ຊ</del>	WB.	<u>+</u> /	38	±₩ŕ	X TEX /	$\times$	X	-									Rer	_	ssod s
Star.						-					(0°)													7		ul () of this
	C						1	- 8. -			~ SO	HEAL No.	-											Date Time	Time	07 u0 notice of t
2	Shi			1				2			1.8	HEAL No.	001	002										2		70 /es as
	UShr								20		KF	ESE E					1							Date Zt1	Date	10/77 /70 This serves a
								1	□ No		0		14			N NO.							1	Q		6. T
	Rush		2					2			1.8	Preservative Type	di fo	20	1											oratori
e.	A		de						(es		ng CF)	serva	E													COULDUA
Time:			Sid		-	iger:		S	9	1	(includi	Prese Type	A										0	Mai	Via:	credit
pund	dard	Jame	5	3.1		lana		N		ers:	emp	<b>۔</b> #		1000										N.		) (
1-Arc	Standard	Project Name:	Liversid	Project #:		ect N	/WC	pler:	ce:	Cool	er T	aine anc	Ś.	_										/ed b	/ed by	d to of
Turn-Around		Proi	X	Proj		Project Manag	N	Sampler:	On Ice:	# of Coolers:	Cooler Temp(including CF): /	Container Type and #	Hocki											Received by:	Received by:	utracte
							Ē						1													subcor
q						1.201	Level 4 (Full Validation)			1																ay be (
00						(B)	Valid					(J)														ntal m
Sec						Che	Full					ame		• )												onme
Ϋ́						cid.	i 4 (I	0				e N	( iC	5.0										1	$\backslash$	ll Envir
po	>	2	ų		9	311	Leve	□ Az Compliance				Sample Name	B.19.0	B.20.C										11		to Hal
ISt	S	J			18	F						Sa	8	3										P B		mitted
ប៊	15		4	2	07	CUN		Z C O	other			,×												Thist		ss subi
Chain-of-Custody Record	weid Energy		QU		23	2 NG		V	□ Other			Matrix	S	V)		£								Relinquished by:	Relineed by:	ドロード 10 27 10 27 10 27 10 10 10 10 10 10 10 10 10 10 10 10 10
Lin	cic		ress		14	X#: /	מכני		- 1	be)_			0	5												ssary, s
ha	- 1		Add		#: U	r Fax	daro	tatio	AC	(Ty		Time	1200	1205										Time:	Time:	f neces
0	Client:		Mailing Address: $\mathcal{O}_{\mathcal{M}}$ $\mathcal{R}_{\mathcal{N}}$		Phone #: 314 330787	email or Fax#: me cunt @ lucid-chergy com	Contraction Standard	Accreditation:	NELAC	EDD			ochad											Ś		If necess
	<u>.</u>		Ma		μÂ	em	3 🗆	Act				Date	101											l 6/3	Date	A



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

October 30, 2020

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

OrderNo.: 2010B63

**RE:** Riverside

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/24/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Project: Riverside

Surr: Toluene-d8

Analytical Report
Lab Order 2010B63

10/26/2020 2:33:04 AM 56019

Date Reported: 10/30/2020 Client Sample ID: B-21-C Collection Date: 10/23/2020 9:30:00 AM

Lab ID: 2010B63-001	Matrix: SOIL		Received Dat	<b>e:</b> 10	/24/2020 8:45:00 AM
Analyses	Result	RL	Qual Units	DF	Date Analyzed Batc
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	ND	61	mg/Kg	20	10/29/2020 5:21:16 PM 5611
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2020 2:33:04 AM 5601
Surr: BFB	107	70-130	%Rec	1	10/26/2020 2:33:04 AM 5601
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/27/2020 11:46:28 AM 5603
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/27/2020 11:46:28 AM 5603
Surr: DNOP	100	30.4-154	%Rec	1	10/27/2020 11:46:28 AM 5603
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	10/26/2020 2:33:04 AM 5601
Toluene	ND	0.049	mg/Kg	1	10/26/2020 2:33:04 AM 5601
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2020 2:33:04 AM 5601
Xylenes, Total	ND	0.098	mg/Kg	1	10/26/2020 2:33:04 AM 5601
Surr: 1,2-Dichloroethane-d4	95.2	70-130	%Rec	1	10/26/2020 2:33:04 AM 5601
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/26/2020 2:33:04 AM 5601
Surr: Dibromofluoromethane	106	70-130	%Rec	1	10/26/2020 2:33:04 AM 5601

106

70-130

%Rec

1

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 19

.

Riverside

Surr: Toluene-d8

Project:

Analytical Report
Lab Order 2010B63

Date Reported: 10/30/2020

10/26/2020 3:01:36 AM 56019

Hall Environmental Anal	vsis Laboratory, Inc.

Client Sample ID: B-22-C Collection Date: 10/23/2020 9:40:00 AM Received Date: 10/24/2020 8:45:00 AM

Lab ID:	2010B63-002	Matrix: SOIL	<b>Received Date:</b> 10/24/2020 8:45:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	JMT	
Chloride		ND	60	mg/Kg	20	10/29/2020 5:58:29 PM	56115	
EPA METHOD 8015D MOD: GASOLINE R		NE RANGE				Analyst	JMR	
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2020 3:01:36 AM	56019	
Surr: I	BFB	105	70-130	%Rec	1	10/26/2020 3:01:36 AM	56019	
EPA METHOD 8015M/D: DIESEL RANGE ORG		NGE ORGANICS				Analyst	BRM	
Diesel R	ange Organics (DRO)	ND	9.4	mg/Kg	1	10/27/2020 12:58:18 PM	A 56030	
Motor Oi	I Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2020 12:58:18 PM	A 56030	
Surr: I	ONOP	98.0	30.4-154	%Rec	1	10/27/2020 12:58:18 PM	A 56030	
EPA METHOD 8260B: VOLATILES SHOR		HORT LIST				Analyst	JMR	
Benzene		ND	0.024	mg/Kg	1	10/26/2020 3:01:36 AM	56019	
Toluene		ND	0.049	mg/Kg	1	10/26/2020 3:01:36 AM	56019	
Ethylben	zene	ND	0.049	mg/Kg	1	10/26/2020 3:01:36 AM	56019	
Xylenes,	Total	ND	0.098	mg/Kg	1	10/26/2020 3:01:36 AM	56019	
Surr: 7	1,2-Dichloroethane-d4	94.5	70-130	%Rec	1	10/26/2020 3:01:36 AM	56019	
Surr: 4	4-Bromofluorobenzene	102	70-130	%Rec	1	10/26/2020 3:01:36 AM	56019	
Surr: I	Dibromofluoromethane	103	70-130	%Rec	1	10/26/2020 3:01:36 AM	56019	

100

70-130

%Rec

1

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 19

**Project:** 

Lab ID:

Analyses

Chloride

Surr: BFB

**CLIENT:** Lucid Energy Delaware

Riverside

**Analytical Report** Lab Order 2010B63

Date Reported: 10/30/2020 Client Sample ID: SW-23-C Collection Date: 10/23/2020 9:50:00 AM

2010B63-003 Received Date: 10/24/2020 8:45:00 AM Matrix: SOIL Result **RL** Qual Units **DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: JMT 93 60 10/29/2020 6:10:54 PM 56115 mg/Kg 20 **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JMR Gasoline Range Organics (GRO) ND 10/26/2020 3:30:07 AM 56019 5.0 mg/Kg 1 104 70-130 %Rec 1 10/26/2020 3:30:07 AM 56019 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: BRM

					· · · · · · · · · · · · · · · · · · ·
Diesel Range Organics (DRO)	48	8.7	mg/Kg	1	10/27/2020 1:22:08 PM 56030
Motor Oil Range Organics (MRO)		44	mg/Kg	1	10/27/2020 1:22:08 PM 56030
Surr: DNOP	105	30.4-154	%Rec	1	10/27/2020 1:22:08 PM 56030
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	10/26/2020 3:30:07 AM 56019
Toluene	ND	0.050	mg/Kg	1	10/26/2020 3:30:07 AM 56019
Ethylbenzene	ND	0.050	mg/Kg	1	10/26/2020 3:30:07 AM 56019
Xylenes, Total	ND	0.099	mg/Kg	1	10/26/2020 3:30:07 AM 56019
Surr: 1,2-Dichloroethane-d4	96.8	70-130	%Rec	1	10/26/2020 3:30:07 AM 56019
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/26/2020 3:30:07 AM 56019
Surr: Dibromofluoromethane	103	70-130	%Rec	1	10/26/2020 3:30:07 AM 56019
Surr: Toluene-d8	99.0	70-130	%Rec	1	10/26/2020 3:30:07 AM 56019

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Sample pH Not In Range Р
- RL Reporting Limit

Page 3 of 19

**Project:** 

Lab ID:

**CLIENT:** Lucid Energy Delaware

2010B63-004

Riverside

Analytical Report
Lab Order 2010B63

Hall Environmental	Analysis	Laboratory.	Inc.
	•	• •	

Date Reported: 10/30/2020 Client Sample ID: SW-24-C Collection Date: 10/23/2020 10:00:00 AM

Received Date: 10/24/2020 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	ЈМТ
Chloride	95	61	mg/Kg	20	10/29/2020 6:23:19 PM	56115
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/26/2020 3:58:36 AM	56019
Surr: BFB	98.1	70-130	%Rec	1	10/26/2020 3:58:36 AM	56019
EPA METHOD 8015M/D: DIESEL RANGE ORGANIC					Analyst	BRM
Diesel Range Organics (DRO)	24	10	mg/Kg	1	10/27/2020 1:46:05 PM	56030
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/27/2020 1:46:05 PM	56030
Surr: DNOP	90.6	30.4-154	%Rec	1	10/27/2020 1:46:05 PM	56030
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	10/26/2020 3:58:36 AM	56019
Toluene	ND	0.049	mg/Kg	1	10/26/2020 3:58:36 AM	56019
Ethylbenzene	ND	0.049	mg/Kg	1	10/26/2020 3:58:36 AM	56019
Xylenes, Total	ND	0.099	mg/Kg	1	10/26/2020 3:58:36 AM	56019
Surr: 1,2-Dichloroethane-d4	96.6	70-130	%Rec	1	10/26/2020 3:58:36 AM	56019
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/26/2020 3:58:36 AM	56019
Surr: Dibromofluoromethane	102	70-130	%Rec	1	10/26/2020 3:58:36 AM	56019
Surr: Toluene-d8	99.8	70-130	%Rec	1	10/26/2020 3:58:36 AM	56019

Matrix: SOIL

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 19
**CLIENT:** Lucid Energy Delaware

Riverside

Project:

Analytical Report
Lab Order 2010B63

Date Reported: 10/30/2020

Client Sample ID: SW-25-C Collection Date: 10/23/2020 11:30:00 AM Received Date: 10/24/2020 8:45:00 AM

Lab ID:	2010B63-005	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 10	/24/2020 8:45:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst:	JMT
Chloride		92	60	mg/Kg	20	10/29/2020 6:35:44 PM	56115
EPA MET	HOD 8015D MOD: GASOLI	NE RANGE				Analyst:	JMR
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	10/27/2020 4:47:21 PM	56022
Surr: E	BFB	99.6	70-130	%Rec	1	10/27/2020 4:47:21 PM	56022
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	BRM
Diesel Ra	ange Organics (DRO)	61	9.6	mg/Kg	1	10/27/2020 2:10:00 PM	56030
Motor Oil	Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2020 2:10:00 PM	56030
Surr: E	DNOP	103	30.4-154	%Rec	1	10/27/2020 2:10:00 PM	56030
EPA MET	HOD 8260B: VOLATILES S	HORT LIST				Analyst:	JMR
Benzene		ND	0.025	mg/Kg	1	10/27/2020 4:47:21 PM	56022
Toluene		ND	0.049	mg/Kg	1	10/27/2020 4:47:21 PM	56022
Ethylben	zene	ND	0.049	mg/Kg	1	10/27/2020 4:47:21 PM	56022
Xylenes,	Total	ND	0.099	mg/Kg	1	10/27/2020 4:47:21 PM	56022
Surr: 1	,2-Dichloroethane-d4	90.3	70-130	%Rec	1	10/27/2020 4:47:21 PM	56022
Surr: 4	I-Bromofluorobenzene	96.8	70-130	%Rec	1	10/27/2020 4:47:21 PM	56022
Surr: [	Dibromofluoromethane	106	70-130	%Rec	1	10/27/2020 4:47:21 PM	56022
Surr: 1	Foluene-d8	99.6	70-130	%Rec	1	10/27/2020 4:47:21 PM	56022

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 19

**CLIENT:** Lucid Energy Delaware

Riverside

Surr: Toluene-d8

Analytical Report
Lab Order 2010B63

Date Reported: 10/30/2020

10/27/2020 6:12:54 PM 56022

Client Sample ID: SW-26-C Collection Date: 10/23/2020 11:40:00 AM Received Date: 10/24/2020 8:45:00 AM

Lab ID: 2010B63-006	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 10	/24/2020 8:45:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ
Chloride	85	60	mg/Kg	20	10/29/2020 6:48:08 PM	56115
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/27/2020 6:12:54 PM	56022
Surr: BFB	110	70-130	%Rec	1	10/27/2020 6:12:54 PM	56022
EPA METHOD 8015M/D: DIESEL RANG	<b>SE ORGANICS</b>				Analyst	BRM
Diesel Range Organics (DRO)	20	9.3	mg/Kg	1	10/27/2020 2:34:03 PM	56030
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2020 2:34:03 PM	56030
Surr: DNOP	99.1	30.4-154	%Rec	1	10/27/2020 2:34:03 PM	56030
EPA METHOD 8260B: VOLATILES SHO	ORT LIST				Analyst	JMR
Benzene	ND	0.025	mg/Kg	1	10/27/2020 6:12:54 PM	56022
Toluene	ND	0.049	mg/Kg	1	10/27/2020 6:12:54 PM	56022
Ethylbenzene	ND	0.049	mg/Kg	1	10/27/2020 6:12:54 PM	56022
Xylenes, Total	ND	0.098	mg/Kg	1	10/27/2020 6:12:54 PM	56022
Surr: 1,2-Dichloroethane-d4	99.2	70-130	%Rec	1	10/27/2020 6:12:54 PM	56022
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/27/2020 6:12:54 PM	56022
Surr: Dibromofluoromethane	102	70-130	%Rec	1	10/27/2020 6:12:54 PM	56022

103

70-130

%Rec

1

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 19

Lab ID:

**CLIENT:** Lucid Energy Delaware

2010B63-007

Riverside

Analytical Report
Lab Order 2010B63

Date Reported: 10/30/2020 Client Sample ID: SW-27-C Collection Date: 10/23/2020 11:45:00 AM

**Received Date:** 10/24/2020 8:45:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	ЈМТ
Chloride	150	61	mg/Kg	20	10/29/2020 7:37:46 PM	56115
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/27/2020 7:38:26 PM	56022
Surr: BFB	104	70-130	%Rec	1	10/27/2020 7:38:26 PM	56022
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/27/2020 3:21:56 PM	56030
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2020 3:21:56 PM	56030
Surr: DNOP	96.7	30.4-154	%Rec	1	10/27/2020 3:21:56 PM	56030
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst	JMR
Benzene	ND	0.024	mg/Kg	1	10/27/2020 7:38:26 PM	56022
Toluene	ND	0.049	mg/Kg	1	10/27/2020 7:38:26 PM	56022
Ethylbenzene	ND	0.049	mg/Kg	1	10/27/2020 7:38:26 PM	56022
Xylenes, Total	ND	0.097	mg/Kg	1	10/27/2020 7:38:26 PM	56022
Surr: 1,2-Dichloroethane-d4	90.2	70-130	%Rec	1	10/27/2020 7:38:26 PM	56022
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/27/2020 7:38:26 PM	56022
Surr: Dibromofluoromethane	104	70-130	%Rec	1	10/27/2020 7:38:26 PM	56022
Surr: Toluene-d8	101	70-130	%Rec	1	10/27/2020 7:38:26 PM	56022

Matrix: SOIL

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 19

**CLIENT:** Lucid Energy Delaware

Riverside

Analytical Report
Lab Order 2010B63

Date Reported: 10/30/2020

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	

Client Sample ID: SW-28-C Collection Date: 10/23/2020 11:50:00 AM Received Date: 10/24/2020 8:45:00 AM

Lab ID:	2010B63-008	Matrix: SOIL		Received Date	e: 10	/24/2020 8:45:00 AM	
Analyses	1	Result	RL	Qual Units	DF	Date Analyzed Bat	tch
	THOD 300.0: ANIONS					Analyst: JM	т
Chloride		250	59	mg/Kg	20	10/29/2020 7:50:11 PM 561	15
EPA ME	THOD 8015D MOD: GASOLI	NE RANGE				Analyst: <b>JM</b> I	R
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	10/27/2020 8:07:09 PM 560	)22
Surr:	BFB	109	70-130	%Rec	1	10/27/2020 8:07:09 PM 560	)22
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BR	М
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	10/27/2020 3:45:49 PM 560	)30
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2020 3:45:49 PM 560	)30
Surr:	DNOP	96.6	30.4-154	%Rec	1	10/27/2020 3:45:49 PM 560	)30
EPA ME	THOD 8260B: VOLATILES S	HORT LIST				Analyst: <b>JM</b> I	R
Benzene	9	ND	0.025	mg/Kg	1	10/27/2020 8:07:09 PM 560	)22
Toluene		ND	0.050	mg/Kg	1	10/27/2020 8:07:09 PM 560	)22
Ethylber	izene	ND	0.050	mg/Kg	1	10/27/2020 8:07:09 PM 560	)22
Xylenes,	, Total	ND	0.10	mg/Kg	1	10/27/2020 8:07:09 PM 560	)22
Surr:	1,2-Dichloroethane-d4	92.9	70-130	%Rec	1	10/27/2020 8:07:09 PM 560	)22
Surr:	4-Bromofluorobenzene	105	70-130	%Rec	1	10/27/2020 8:07:09 PM 560	)22
Surr:	Dibromofluoromethane	103	70-130	%Rec	1	10/27/2020 8:07:09 PM 560	)22
Surr:	Toluene-d8	105	70-130	%Rec	1	10/27/2020 8:07:09 PM 560	)22

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 19

**CLIENT:** Lucid Energy Delaware

Surr: Dibromofluoromethane

Surr: Toluene-d8

Analytical Report
Lab Order 2010B63

10/27/2020 8:35:43 PM 56022

10/27/2020 8:35:43 PM 56022

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	

Date Reported: 10/30/2020 Client Sample ID: SW-29-C Collection Date: 10/23/2020 11:55:00 AM

Project:	Riverside			Collection Dat	<b>e:</b> 10	/23/2020 11:55:00 AM	[
Lab ID:	2010B63-009	Matrix: SOII		<b>Received Dat</b>	<b>e:</b> 10	/24/2020 8:45:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT
Chloride		310	59	mg/Kg	20	10/29/2020 7:25:21 PM	56115
EPA MET	HOD 8015D MOD: GASO	LINE RANGE				Analyst	: JMR
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	10/27/2020 8:35:43 PM	56022
Surr: E	BFB	102	70-130	%Rec	1	10/27/2020 8:35:43 PM	56022
EPA MET	HOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	BRM
Diesel Ra	ange Organics (DRO)	ND	9.3	mg/Kg	1	10/27/2020 4:09:46 PM	56030
Motor Oil	Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2020 4:09:46 PM	56030
Surr: [	DNOP	88.9	30.4-154	%Rec	1	10/27/2020 4:09:46 PM	56030
EPA MET	HOD 8260B: VOLATILES	SHORT LIST				Analyst	JMR
Benzene		ND	0.025	mg/Kg	1	10/27/2020 8:35:43 PM	56022
Toluene		ND	0.049	mg/Kg	1	10/27/2020 8:35:43 PM	56022
Ethylben	zene	ND	0.049	mg/Kg	1	10/27/2020 8:35:43 PM	56022
Xylenes,	Total	ND	0.098	mg/Kg	1	10/27/2020 8:35:43 PM	56022
Surr: 1	,2-Dichloroethane-d4	95.5	70-130	%Rec	1	10/27/2020 8:35:43 PM	56022
Surr: 4	l-Bromofluorobenzene	101	70-130	%Rec	1	10/27/2020 8:35:43 PM	56022

100

102

70-130

70-130

%Rec

%Rec

1

1

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 19

**CLIENT:** Lucid Energy Delaware

Riverside

Analytical Report
Lab Order 2010B63

Date Reported: 10/30/2020

Client Sample ID: SW-30-C Collection Date: 10/23/2020 12:00:00 PM Pageived Date: 10/24/2020 8:45:00 AM

Lab ID:	2010B63-010	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 10	/24/2020 8:45:00 AM	
Analyses	5	Result	RL	Qual Units	DF	Date Analyzed	Batch
	THOD 300.0: ANIONS					Analyst:	ЈМТ
Chloride		450	60	mg/Kg	20	10/29/2020 8:02:35 PM	56115
EPA ME	THOD 8015D MOD: GASOLI	NE RANGE				Analyst:	JMR
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	10/27/2020 9:04:13 PM	56022
Surr:	BFB	101	70-130	%Rec	1	10/27/2020 9:04:13 PM	56022
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	BRM
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	10/27/2020 4:33:39 PM	56030
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2020 4:33:39 PM	56030
Surr:	DNOP	109	30.4-154	%Rec	1	10/27/2020 4:33:39 PM	56030
EPA ME	THOD 8260B: VOLATILES S	HORT LIST				Analyst:	JMR
Benzene	9	ND	0.025	mg/Kg	1	10/27/2020 9:04:13 PM	56022
Toluene		ND	0.050	mg/Kg	1	10/27/2020 9:04:13 PM	56022
Ethylber	izene	ND	0.050	mg/Kg	1	10/27/2020 9:04:13 PM	56022
Xylenes,	, Total	ND	0.10	mg/Kg	1	10/27/2020 9:04:13 PM	56022
Surr:	1,2-Dichloroethane-d4	90.6	70-130	%Rec	1	10/27/2020 9:04:13 PM	56022
Surr:	4-Bromofluorobenzene	98.1	70-130	%Rec	1	10/27/2020 9:04:13 PM	56022
Surr:	Dibromofluoromethane	108	70-130	%Rec	1	10/27/2020 9:04:13 PM	56022
Surr:	Toluene-d8	105	70-130	%Rec	1	10/27/2020 9:04:13 PM	56022

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 19

**CLIENT:** Lucid Energy Delaware

Riverside

Analytical Report
Lab Order 2010B63

Date Reported: 10/30/2020

Hall Environmental	Analysis	Laboratory,	Inc.
	•	• •	

Client Sample ID: SW-31-C Collection Date: 10/23/2020 12:10:00 PM Received Date: 10/24/2020 8:45:00 AM

Lab ID:	2010B63-011	Matrix: SOIL		<b>Received Dat</b>	<b>e:</b> 10	/24/2020 8:45:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst:	ЈМТ
Chloride		260	59	mg/Kg	20	10/29/2020 8:15:00 PM	56115
EPA MET	HOD 8015D MOD: GASOLI	NE RANGE				Analyst:	JMR
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	10/27/2020 9:32:50 PM	56022
Surr: B	FB	104	70-130	%Rec	1	10/27/2020 9:32:50 PM	56022
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	BRM
Diesel Ra	inge Organics (DRO)	ND	9.6	mg/Kg	1	10/27/2020 4:57:33 PM	56030
Motor Oil	Range Organics (MRO)	ND	48	mg/Kg	1	10/27/2020 4:57:33 PM	56030
Surr: D	NOP	85.9	30.4-154	%Rec	1	10/27/2020 4:57:33 PM	56030
EPA MET	HOD 8260B: VOLATILES S	HORT LIST				Analyst:	JMR
Benzene		ND	0.025	mg/Kg	1	10/27/2020 9:32:50 PM	56022
Toluene		ND	0.050	mg/Kg	1	10/27/2020 9:32:50 PM	56022
Ethylbenz	zene	ND	0.050	mg/Kg	1	10/27/2020 9:32:50 PM	56022
Xylenes,	Total	ND	0.10	mg/Kg	1	10/27/2020 9:32:50 PM	56022
Surr: 1	,2-Dichloroethane-d4	99.3	70-130	%Rec	1	10/27/2020 9:32:50 PM	56022
Surr: 4	-Bromofluorobenzene	104	70-130	%Rec	1	10/27/2020 9:32:50 PM	56022
Surr: D	ibromofluoromethane	109	70-130	%Rec	1	10/27/2020 9:32:50 PM	56022
Surr: T	oluene-d8	104	70-130	%Rec	1	10/27/2020 9:32:50 PM	56022

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 19

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2010B63

Date Reported:	10/30/2020
Dute Reported.	10/30/2020

<b>CLIENT:</b>	Lucid Energy Delaware		Cl	ient Sample II	D:SV	V-32-C					
Project:	Riverside	Collection Date: 10/23/2020 12:20:00 PM									
Lab ID:	2010B63-012	Matrix: SOIL		<b>Received Dat</b>	/24/2020 8:45:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	HOD 300.0: ANIONS					Analyst	: ЈМТ				
Chloride		320	60	mg/Kg	20	10/29/2020 8:27:24 PM	56115				
EPA MET	HOD 8015D MOD: GASOLIN	E RANGE				Analyst	: JMR				
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	10/27/2020 10:01:29 Pl	M 56022				
Surr: E	3FB	102	70-130	%Rec	1	10/27/2020 10:01:29 Pl	M 56022				
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst	BRM				
Diesel Ra	ange Organics (DRO)	ND	9.5	mg/Kg	1	10/27/2020 5:21:26 PM	56030				
Motor Oil	Range Organics (MRO)	ND	47	mg/Kg	1	10/27/2020 5:21:26 PM	56030				
Surr: D	NOP	94.5	30.4-154	%Rec	1	10/27/2020 5:21:26 PM	56030				
EPA MET	HOD 8260B: VOLATILES SH	ORT LIST				Analyst	JMR				
Benzene		ND	0.025	mg/Kg	1	10/27/2020 10:01:29 Pl	M 56022				
Toluene		ND	0.050	mg/Kg	1	10/27/2020 10:01:29 Pl	M 56022				
Ethylbenz	zene	ND	0.050	mg/Kg	1	10/27/2020 10:01:29 Pl	M 56022				
Xylenes,	Total	ND	0.099	mg/Kg	1	10/27/2020 10:01:29 Pl	M 56022				
Surr: 1	,2-Dichloroethane-d4	95.1	70-130	%Rec	1	10/27/2020 10:01:29 Pl	M 56022				
Surr: 4	-Bromofluorobenzene	99.5	70-130	%Rec	1	10/27/2020 10:01:29 Pl	M 56022				
Surr: D	Dibromofluoromethane	108	70-130	%Rec	1	10/27/2020 10:01:29 Pl	M 56022				
Surr: T	oluene-d8	103	70-130	%Rec	1	10/27/2020 10:01:29 Pl	M 56022				

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 19

.

Client: Project:	Lucid Er Riversid	nergy Delav e	vare								
Sample ID: MB-5	6115	SampT	ype: <b>mb</b>	olk	Tes	tCode: EP	A Method	300.0: Anion	s		
Client ID: PBS		Batch	n ID: 56	115	F	RunNo: <b>73</b>	8026				
Prep Date: 10/2	9/2020	Analysis D	ate: 10	/29/2020	S	SeqNo: 25	67344	Units: <b>mg/Kg</b>			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LCS-	56115	SampT	ype: Ics	;	Tes	tCode: EP	PA Method	300.0: Anion	s		
Client ID: LCSS	6	Batch	n ID: 56	115	F	RunNo: <b>73</b>	8026				
Prep Date: 10/2	9/2020	Analysis Date: 10/29/2020			SeqNo: 2567345			Units: mg/K	g		
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 Limit

Page 13 of 19

2010B63

30-Oct-20

\_

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Lucid Ene Riverside	ergy Delav	vare								
	2010B63-001AMS	SampT	ype: <b>MS</b>		Tos	tCode: E	PA Method	8015M/D: Di	osol Pang	Organics	
Client ID:			n ID: 56			RunNo: 72		0015M/D. DI	coor range	e organics	
	-										
Prep Date:	10/26/2020	Analysis D				SeqNo: 2		Units: mg/k	vg		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	Organics (DRO)	49	9.9	49.36	0	99.8	15	184			
Surr: DNOP		4.6		4.936		92.6	30.4	154			
Sample ID:	2010B63-001AMS	<b>)</b> SampT	уре: МS	SD	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	B-21-C	Batch	n ID: 56	030	F	RunNo: 72	2933				
Prep Date:	10/26/2020	Analysis D	ate: 10	)/27/2020	S	SeqNo: 2	565364	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	47	9.7	48.50	0	97.3	15	184	4.23	23.9	
Surr: DNOP		4.4		4.850		90.4	30.4	154	0	0	
Sample ID:	LCS-56030	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 56	030	F	RunNo: 72	2933				
Prep Date:	10/26/2020	Analysis D	ate: 10	)/27/2020	5	SeqNo: 2	565384	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	46	10	50.00	0	92.6	70	130			
Surr: DNOP		4.3		5.000		85.3	30.4	154			
Sample ID:	MB-56030	SampT	ype: <b>ME</b>	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	PBS	Batch	n ID: 56	030	F	RunNo: 72	2933				
Prep Date:	10/26/2020	Analysis D	ate: 10	)/27/2020	5	SeqNo: 2	565385	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	ND	10					-			
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		9.1		10.00		90.5	30.4	154			

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 19

2010B63

30-Oct-20

Client: Lucid En Project: Riverside	ergy Delav e	ware								
Sample ID: Ics-56019	Samp	Гуре: <b>LC</b>	S4	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 560	)19	F	RunNo: 72914					
Prep Date: 10/24/2020	Analysis [	Date: 10	/25/2020	SeqNo: 2563106 Units: mg/k			ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.2	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.5	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.53		0.5000		105	70	130			
Sample ID: mb-56019	Samp	Гуре: <b>МВ</b>	LK	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: 560	)19	RunNo: 72914						
Prep Date: 10/24/2020	Analysis Date: 10/25/2020			SeqNo: 2563107 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	0.49		0.5000		98.1	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.49		0.5000		98.6	70	130			
Sample ID: 2010b59-001ams	Samp	Гуре: <b>МS</b>	4	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 560	)19	F	RunNo: 72	2914				
Prep Date: 10/24/2020	Analysis I	Date: 10	/25/2020	S	SeqNo: 25	563109	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9980	0	107	71.1	115			
Toluene	1.2	0.050	0.9980	0	123	79.6	132			
Ethylbenzene	1.3	0.050	0.9980	0	125	83.8	134			
Xylenes, Total	3.9	0.10	2.994	0	130	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.48		0.4990		96.3	70	130			
Surr: 4-Bromofluorobenzene	0.55		0.4990		111	70	130			
Surr: Dibromofluoromethane	0.50		0.4990		100	70	130			
Surr: Toluene-d8	0.51		0.4990		102	70	130			

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 15 of 19

WO#:	2010B63
	30-Oct-20

**Client:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Lucid Energy Delaware

Project: Riverside	e e	ware									
Sample ID: 2010b59-001ams	d Samp	Туре: <b>МS</b>	SD4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		
Client ID: BatchQC	Batc	h ID: 56	019	RunNo: 72914							
Prep Date: 10/24/2020	Analysis [	Date: 10	)/25/2020	S	SeqNo: 2563110			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	0.9891	0	105	71.1	115	2.55	20		
Toluene	1.2	0.049	0.9891	0	126	79.6	132	1.64	20		
Ethylbenzene	1.2	0.049	0.9891	0	124	83.8	134	1.78	20		
Xylenes, Total	4.0	0.099	2.967	0	135	82.4	132	3.18	20	S	
Surr: 1,2-Dichloroethane-d4	0.46		0.4946		92.4	70	130	0	0		
Surr: 4-Bromofluorobenzene	0.52		0.4946		105	70	130	0	0		
Surr: Dibromofluoromethane	0.49		0.4946		98.3	70	130	0	0		
Surr: Toluene-d8	0.50		0.4946		100	70	130	0	0		
Sample ID: Ics-56022	Samp	Туре: <b>LC</b>	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		
Client ID: BatchQC	Batc	h ID: 56	022	F	RunNo: <b>72964</b>						
Prep Date: 10/25/2020	Analysis [	Date: 10	)/27/2020	5	SeqNo: 2	565392	Units: <b>mg/K</b>	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.94	0.025	1.000	0	94.3	80	120				
Toluene	1.1	0.050	1.000	0	111	80	120				
Ethylbenzene	1.0	0.050	1.000	0	104	80	120				
Xylenes, Total	3.4	0.10	3.000	0	114	80	120				
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.0	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.6	70	130				
Surr: Dibromofluoromethane	0.53		0.5000		105	70	130				
Surr: Toluene-d8	0.52		0.5000		105	70	130				
Sample ID: mb-56022	Samp	Туре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List		
Client ID: PBS	Batc	h ID: 56	022	F	RunNo: <b>7</b> 2	2964					
Prep Date: 10/25/2020	Analysis [	Date: 10	)/27/2020	S	SeqNo: 2	565393	Units: <b>mg/K</b>	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									
	0.45		0.5000		90.5	70	130				
Surr: 1,2-Dichloroethane-d4	0.45										
Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	0.45 0.54		0.5000		109	70	130				
,			0.5000 0.5000		109 105	70 70	130 130				

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 16 of 19

WO#:	2010B63
	20 Oat 20

30-Oct-20

Released to Imaging: 12/3/2021 9:42:05 AM

**Client:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Lucid Energy Delaware

Project: Riverside										
Sample ID: 2010b63-005ams	Samp	Гуре: МS	4	Test	TestCode: EPA Method 8260B: Volatiles Short List					
Client ID: SW-25-C	Batc	h ID: 560	)22	RunNo: <b>72964</b>						
Prep Date: 10/25/2020	Analysis [	Date: 10	/27/2020	SeqNo: 2565395			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9737	0	92.0	71.1	115			
Toluene	1.0	0.049	0.9737	0	107	79.6	132			
Ethylbenzene	1.1	0.049	0.9737	0	108	83.8	134			
Xylenes, Total	3.4	0.097	2.921	0	117	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.45		0.4869		93.0	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.4869		98.3	70	130			
Surr: Dibromofluoromethane	0.52		0.4869		106	70	130			
Surr: Toluene-d8	0.51		0.4869		105	70	130			
Sample ID: 2010b63-005amsd SampType: MSD4 TestCode: EPA Method 8260B: Volatiles Short List										
Sample ID: 2010b63-005amsd	I Samp]	Гуре: МS		Test				iles Short	List	
Sample ID: 2010b63-005amsd	•	Гуре: <b>MS</b> h ID: <b>560</b>	D4			PA Method		iles Short	List	
	•	h ID: 560	5D4 )22	R	tCode: EF	PA Method 2964			List	
Client ID: SW-25-C	Batc	h ID: 560	5D4 022 0/27/2020	R	Code: EF	PA Method 2964	8260B: Volat		<b>List</b> RPDLimit	Qual
Client ID: SW-25-C Prep Date: 10/25/2020 Analyte	Batc Analysis [	h ID: 560 Date: 10	5D4 022 0/27/2020	R	Code: EF tunNo: 72 ieqNo: 25	PA Method 2964 565396	8260B: Volat Units: mg/K	g		Qual
Client ID: SW-25-C Prep Date: 10/25/2020 Analyte Benzene	Batc Analysis I Result	h ID: 560 Date: 10 PQL	5 <b>D4</b> 022 0/27/2020 SPK value	R S SPK Ref Val	Code: EF unNo: 72 eqNo: 29 %REC	PA Method 2964 565396 LowLimit	8260B: Volat Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Client ID: SW-25-C Prep Date: 10/25/2020 Analyte Benzene Toluene	Batc Analysis I Result 0.88	h ID: <b>560</b> Date: <b>10</b> PQL 0.024	5 <b>D4</b> 022 /27/2020 SPK value 0.9785	R SPK Ref Val 0	Code: EF tunNo: 72 GeqNo: 28 %REC 90.1	PA Method 2964 565396 LowLimit 71.1	8260B: Volat Units: mg/K HighLimit 115	<b>g</b> <u>%RPD</u> 1.62	RPDLimit 20	Qual
Client ID: SW-25-C Prep Date: 10/25/2020 Analyte Benzene Toluene Ethylbenzene	Batc Analysis I Result 0.88 1.0	h ID: 560 Date: 10 PQL 0.024 0.049	5 <b>D4</b> 5 <b>D22</b> 5 <b>PK value</b> 0.9785 0.9785	R S SPK Ref Val 0 0	Code: EF RunNo: 72 SeqNo: 29 %REC 90.1 105	PA Method 2964 565396 LowLimit 71.1 79.6	8260B: Volat Units: mg/K HighLimit 115 132	<b>g</b> %RPD 1.62 1.71	RPDLimit 20 20	Qual
Client ID: SW-25-C Prep Date: 10/25/2020	Batc Analysis I Result 0.88 1.0 1.0	h ID: <b>560</b> Date: <b>10</b> <u>PQL</u> 0.024 0.049 0.049	5D4 022 /27/2020 SPK value 0.9785 0.9785 0.9785	R S SPK Ref Val 0 0 0	Code: EF anNo: 72 GeqNo: 29 %REC 90.1 105 105	PA Method 2964 565396 LowLimit 71.1 79.6 83.8	8260B: Volat Units: mg/K HighLimit 115 132 134	<b>g</b> %RPD 1.62 1.71 2.41	RPDLimit 20 20 20	Qual
Client ID: SW-25-C Prep Date: 10/25/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Batc Analysis I Result 0.88 1.0 1.0 3.2	h ID: <b>560</b> Date: <b>10</b> <u>PQL</u> 0.024 0.049 0.049	5D4 222 27/2020 SPK value 0.9785 0.9785 0.9785 2.935	R S SPK Ref Val 0 0 0	Code: EF SunNo: 72 SeqNo: 25 %REC 90.1 105 105 110	2964 2964 565396 LowLimit 71.1 79.6 83.8 82.4	8260B: Volat Units: mg/K HighLimit 115 132 134 132	<b>g</b> %RPD 1.62 1.71 2.41 5.19	RPDLimit 20 20 20 20	Qual
Client ID: SW-25-C Prep Date: 10/25/2020 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 1,2-Dichloroethane-d4	Batc Analysis I Result 0.88 1.0 1.0 3.2 0.47	h ID: <b>560</b> Date: <b>10</b> <u>PQL</u> 0.024 0.049 0.049	504 5022 5027/2020 5027/200 5027/200 5027/200 5027/200 5027/200 5027/200 5027/200 5027/20	R S SPK Ref Val 0 0 0	Code: EF SunNo: 72 SeqNo: 25 %REC 90.1 105 105 110 96.7	2964 2964 565396 LowLimit 71.1 79.6 83.8 82.4 70	8260B: Volat Units: mg/K HighLimit 115 132 134 132 130	<b>g</b> %RPD 1.62 1.71 2.41 5.19 0	RPDLimit 20 20 20 20 0	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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 17 of 19

WO#: **2010B63** 

-

## QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Lucid En	ergy Delaware								
Project: Riverside	e								
Sample ID: Ics-56019	SampType: L	cs	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: LCSS	Batch ID: 50	6019	F	RunNo: 72	2914			-	
Prep Date: 10/24/2020	Analysis Date: 1	0/25/2020	S	SeqNo: 2	563081	Units: mg/K	íg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	22 5.0 500	) 25.00 500.0	0	87.5 101	70 70	130 130			
Sample ID: mb-56019	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: PBS	Batch ID: 5	6019	F	RunNo: 72	2914				
Prep Date: 10/24/2020	Analysis Date: 1	0/25/2020	S	SeqNo: 2	563082	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 510	) 500.0		101	70	130			
Sample ID: 2010b59-002ams	SampType: <b>M</b>	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: BatchQC	Batch ID: 5	6019	F	RunNo: 72	2914				
Prep Date: 10/24/2020	Analysis Date: 1	0/25/2020	S	SeqNo: 2	563086	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	26 5.0 500	) 24.95 499.0	0	104 101	49.2 70	122 130			
Sample ID: 2010b59-002ams	d SampType: M	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: BatchQC	Batch ID: 50	6019	F	RunNo: 72	2914				
Prep Date: 10/24/2020	Analysis Date: 1	0/25/2020	S	SeqNo: 2	563087	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	26 5.0 520	) 25.00 500.0	0	106 103	49.2 70	122 130	1.61 0	20 0	
Sample ID: Ics-56022	SampType: L	cs	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: LCSS	Batch ID: 5	6022	F	RunNo: <b>7</b> 2	2964				
Prep Date: 10/25/2020	Analysis Date: 1	0/27/2020	S	SeqNo: 2	565422	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	21 5.0 510	) 25.00 500.0	0	85.4 101	70 70	130 130			
Sample ID: mb-56022	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID: PBS	Batch ID: 5	6022	F	RunNo: 72	2964				
Prep Date: 10/25/2020	Analysis Date: 1	0/27/2020	S	SeqNo: 2	565423	Units: mg/K	g		
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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 18 of 19

2010B63

30-Oct-20

Client:		ergy Delav	vare								
Project:	Riverside										
Sample ID:	mb-56022	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	PBS	Batch	n ID: 560	)22	R	RunNo: 72	2964				
Prep Date:	10/25/2020	Analysis D	ate: 10	/27/2020	S	SeqNo: 2	565423	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		540		500.0		108	70	130			
Sample ID:	2010b63-006ams	SampT	ype: MS	;	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	SW-26-C	Batch	n ID: 560	)22	R	RunNo: 72	2964				
Prep Date:	10/25/2020	Analysis D	ate: 10	/27/2020	S	eqNo: 2	565426	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	4.9	24.58	2.289	78.4	49.2	122			
Surr: BFB		500		491.6		103	70	130			
Sample ID:	2010b63-006amsd	I SampT	ype: <b>MS</b>	D	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline I	Range	
Client ID:	SW-26-C	Batch	n ID: 560	)22	R	unNo: 72	2964				
Prep Date:	10/25/2020	Analysis D	ate: 10	/27/2020	S	SeqNo: 2	565427	Units: <b>mg/K</b>	íg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	5.0	24.95	2.289	82.3	49.2	122	5.68	20	
Surr: BFB		520		499.0		104	70	130	0	0	

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 19

2010B63

30-Oct-20

.

HALL ENVII ANAL	0/29/2021 11:21:33 AM Ronmental Ysis Ratory	TEL: 505-345-3	ntal Analysis La 4901 Haw Albuquerque, N 975 FAX: 505-3 s.hallenvironme	vkins NE M 87109 <b>Sar</b> 45-4107	nple Log-In Che	Pageck Lis
Client Name:	Lucid Energy Delaware	Work Order Num	ber: 2010B63		RcptNo: 1	
Received By:	Desiree Dominguez	10/24/2020 8:45:00	) AM	TAZ		
Completed By:	Desiree Dominguez	10/23/2020 4:02:19	PM	TPS		
Reviewed By:	(m 10/20/2020					
Chain of Cus	stody					
1. Is Chain of C	ustody complete?		Yes 🖌	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In		0			🗖	
o. was an allen	npt made to cool the sample	S?	Yes 🗹	No	NA 🗌	
4. Were all sam	ples received at a temperatu	re of >0° C to 6.0°C	Yes 🗹	No 🗌		
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient san	ple volume for indicated tes	t(s)?	Yes 🗹	No 🗌		
7. Are samples (	except VOA and ONG) prop	erly preserved?	Yes 🗹	No 🗌		
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🔽	
10. Were any sar	nple containers received bro	ken?	Yes 🗌	No 🗹	# of preserved	/
	ork match bottle labels?		Yes 🗹	No 🗌	bottles checked for pH:	
	ancies on chain of custody)				(≤2 or >12 Adjusted?	unless note
	correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?	
	t analyses were requested? ng times able to be met?		Yes ☑ Yes ☑	No 🗌	Checked by: DA	DING
	ustomer for authorization.)		Yes 💌	No 🗔 🚽	Checked by.	0/24
Special Handl	ing (if applicable)					
15. Was client no	tified of all discrepancies wit	h this order?	Yes	No 🗌	NA 🗹	
Person	Notified:	Date:	[	NUMBER OF STREET, STREE		
By Who	om:	Via:	eMail	] Phone 🗌 Fax	In Person	
Regard	ing:				and the second of the second second	
Client I	nstructions:					
16. Additional re	marks:					
17. Cooler Infor	mation					
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1	3.2 Good M	Not Present				

Page 1 of 1

		(					Г									
	Chain	-01-01	Chain-of-Custody Record	I urn-Around Time:	Time:					1	ĺ					
Client:	Lucia	-ucid Eneray	Lay	& Standard		day			<b>F</b> d	IAL			HALL ENVIRONMENTAL	MEN	TAL	
				Project Name:	-				4		ANALYSIS		LABORATOR	RAT	ORY	
Mailin	Mailing Address: en Ale	Fionf	216	KIVENSI	Nole			4901	Hawki	4901 Hawkins NF	05	ronme	www.hallenvironmental.com	0015		
				Project #:				a lot	VIANDI	Tel 606 346 3075		hanhn	For for off 109	108		
Phone	Phone #: 314 330	3307	2826					- 21.	+C-CO	180-0	Inal	vsis Re	505-345-4107 Reguest	1		
email	email or Fax#: MAQAA O vcv	MAQUA	-Olucid-energy, com	Project Mana	nager:			((			¢(		(			
QA/QC Packa	QA/QC Package:	2		Mo	Jack	Cant				SWI	O\$'₽O		tn∋sdA			
Accret	Accreditation:	□ Az Co	Az Compliance	Sampler: N	127					S022	д ' <sup>z</sup> с		улиəs			
D NELAC	AC	□ Other		On Ice:	X Yes	O No				(8 J	DN	(6				
	EDD (Type)			# of Coolers:	-							10/				
				Cooler Temp(including CF):	1.1	3,1+6,1-3,2 (°C)					k, N	-				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Tvpe	HEAL No.	/ X3T6	08:H9	M) 803	AHs b 3 AADS	ў E' Е	S) 022 A) 092	otal Co			
10/23/22	0/23/20 69.50	$\sim$		1 3	TCF	-001	1				2)					1
	0940		2			- 0.07					X					Τ
	0950		SW-23, C			- 007	$\times$		+	+	X					T
	1000		SW, 24.C			- 004			+	+	$\langle \rangle$	+				Τ
	1130		5W'25,C			-005	$\langle \cdot \rangle$				$\langle \times$	-				1
	1140	_	SW/26°C			- 006					$\langle \times$	-				T
	lits		SW27.C		-	100-	N.X.				× ×					1
	1150		SWI28.C			- 003	X				×			_		1
-	1155		SWIZQIC			-000	XX				7	ļ				Т
	0.9%		52130.C			-010	ブナ				7					T
	1210		SW131C			- 011	7 ×				×					
	0		32. C		8	210-	Y				×					
Date:		Relinquished by:	~	Received by:	Via: 1	Date Time	15	KS:	-		_	4			_	
100%	0	N	the	A	1	10/23/20 / 200										
Date:	Time:	Relinquished by		Received by.	Via:	Date Time										
Ohistore (900	(90D	M		P	courter	St. & 02/h2/01										
	If necessary.	samples subr	f 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.	ntracted to other acci	edited laboratories	. This serves as notice of this I	oossibility.	Any sut	0-contrac	ted data	will be cle	arly nota	ted on the ana	lytical report.		7

### **Released to Imaging: 12/3/2021 9:42:05 AM**

### Page 125 of 140

Received by OCD: 10/29/2021 11:21:33 AM



December 10, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2012281

RE: Riverside

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/5/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**CLIENT:** Lucid Energy Delaware

Project: Riverside

**Analytical Report** Lab Order 2012281

Date Reported: 12/10/2020

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: B-33-C Collection Date: 11/25/2020 10:10:00 AM **Becaived Data:** 12/5/2020 8:00:00 AM

Lab ID: 2012281-001	Matrix: SOIL	Rece	eived Date:	12/5/2	020 8:00:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/8/2020 4:44:30 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/8/2020 4:44:30 PM
Surr: DNOP	43.2	30.4-154	%Rec	1	12/8/2020 4:44:30 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	61	mg/Kg	20	12/7/2020 2:36:25 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	12/7/2020 3:27:33 AM
Toluene	ND	0.049	mg/Kg	1	12/7/2020 3:27:33 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/7/2020 3:27:33 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/7/2020 3:27:33 AM
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	12/7/2020 3:27:33 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	12/7/2020 3:27:33 AM
Surr: Dibromofluoromethane	107	70-130	%Rec	1	12/7/2020 3:27:33 AM
Surr: Toluene-d8	97.9	70-130	%Rec	1	12/7/2020 3:27:33 AM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/7/2020 3:27:33 AM
Surr: BFB	104	70-130	%Rec	1	12/7/2020 3:27:33 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
- н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL
  - Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

**CLIENT:** Lucid Energy Delaware

2012281-002

Project: Riverside

Lab ID:

Analytical Report
Lab Order 2012281

Date Reported: 12/10/2020

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: B-34-C Collection Date: 11/25/2020 10:15:00 AM Received Date: 12/5/2020 8:00:00 AM

Soll Soll	1000	liveu Dutei	12/0/2	020 0.00.00 1101
Result	RL Qu	al Units	DF	Date Analyzed
E ORGANICS				Analyst: BRM
ND	9.9	mg/Kg	1	12/8/2020 5:08:10 PM
ND	50	mg/Kg	1	12/8/2020 5:08:10 PM
31.4	30.4-154	%Rec	1	12/8/2020 5:08:10 PM
				Analyst: VP
ND	60	mg/Kg	20	12/7/2020 3:13:39 PM
ORT LIST				Analyst: JMR
ND	0.024	mg/Kg	1	12/7/2020 3:56:15 AM
ND	0.048	mg/Kg	1	12/7/2020 3:56:15 AM
ND	0.048	mg/Kg	1	12/7/2020 3:56:15 AM
ND	0.097	mg/Kg	1	12/7/2020 3:56:15 AM
100	70-130	%Rec	1	12/7/2020 3:56:15 AM
97.6	70-130	%Rec	1	12/7/2020 3:56:15 AM
104	70-130	%Rec	1	12/7/2020 3:56:15 AM
100	70-130	%Rec	1	12/7/2020 3:56:15 AM
RANGE				Analyst: JMR
ND	4.8	mg/Kg	1	12/7/2020 3:56:15 AM
103	70-130	%Rec	1	12/7/2020 3:56:15 AM
	E ORGANICS ND ND 31.4 ND ND ND ND ND ND ND ND 100 97.6 104 100 97.6 104 100 97.6 104 100	ND         9.9           ND         50           31.4         30.4-154           ND         60           ORT LIST         ND           ND         0.024           ND         0.048           ND         0.048           ND         0.097           100         70-130           97.6         70-130           104         70-130           100         70-130           100         70-130           100         70-130           100         70-130           100         70-130           100         70-130           100         70-130           100         70-130           100         70-130	ND         9.9         mg/Kg           ND         50         mg/Kg           31.4         30.4-154         %Rec           ND         60         mg/Kg           ND         60         mg/Kg           ND         0.024         mg/Kg           ND         0.048         mg/Kg           ND         0.048         mg/Kg           ND         0.097         mg/Kg           ND         0.097         mg/Kg           100         70-130         %Rec           97.6         70-130         %Rec           100         70-130         %Rec           100         70-130         %Rec           ND         0.4.8         mg/Kg	ND         9.9         mg/Kg         1           ND         50         mg/Kg         1           31.4         30.4-154         %Rec         1           ND         60         mg/Kg         20           ND         60         mg/Kg         1           ND         0.024         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.048         mg/Kg         1           ND         0.097         mg/Kg         1           100         70-130         %Rec         1           97.6         70-130         %Rec         1           100         70-130 <td< td=""></td<>

Matrix: SOIL

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9

Lab ID:

**CLIENT:** Lucid Energy Delaware

2012281-003

Riverside

Analytical Report Lab Order 2012281

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/10/2020 Client Sample ID: B-35-C Collection Date: 11/25/2020 10:18:00 AM

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	12/9/2020 11:06:01 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/9/2020 11:06:01 AM
Surr: DNOP	92.3	30.4-154	%Rec	1	12/9/2020 11:06:01 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	12/7/2020 4:15:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	12/7/2020 4:24:58 AM
Toluene	ND	0.050	mg/Kg	1	12/7/2020 4:24:58 AM
Ethylbenzene	ND	0.050	mg/Kg	1	12/7/2020 4:24:58 AM
Xylenes, Total	ND	0.10	mg/Kg	1	12/7/2020 4:24:58 AM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	12/7/2020 4:24:58 AM
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	12/7/2020 4:24:58 AM
Surr: Dibromofluoromethane	106	70-130	%Rec	1	12/7/2020 4:24:58 AM
Surr: Toluene-d8	98.2	70-130	%Rec	1	12/7/2020 4:24:58 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/7/2020 4:24:58 AM
Surr: BFB	102	70-130	%Rec	1	12/7/2020 4:24:58 AM

Matrix: SOIL

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 9

Lab ID:

**CLIENT:** Lucid Energy Delaware

2012281-004

Riverside

Analytical Report Lab Order 2012281

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/10/2020 Client Sample ID: B-36-C Collection Date: 11/25/2020 10:20:00 AM

**Received Date:** 12/5/2020 8:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAN	NICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	12/9/2020 11:29:33 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/9/2020 11:29:33 AM
Surr: DNOP	96.1	30.4-154	%Rec	1	12/9/2020 11:29:33 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	12/7/2020 4:28:06 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JMR
Benzene	ND	0.025	mg/Kg	1	12/7/2020 4:53:34 AM
Toluene	ND	0.049	mg/Kg	1	12/7/2020 4:53:34 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/7/2020 4:53:34 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/7/2020 4:53:34 AM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	12/7/2020 4:53:34 AM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	12/7/2020 4:53:34 AM
Surr: Dibromofluoromethane	108	70-130	%Rec	1	12/7/2020 4:53:34 AM
Surr: Toluene-d8	98.4	70-130	%Rec	1	12/7/2020 4:53:34 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/7/2020 4:53:34 AM
Surr: BFB	102	70-130	%Rec	1	12/7/2020 4:53:34 AM

Matrix: SOIL

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

**Qualifiers:** 

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 9

Client: Project:	Lucid En Riverside	ergy Delav	ware								
Sample ID: M	B-56826	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: PE	BS	Batch	n ID: 56	826	F	RunNo: 73	3830				
Prep Date: 1	2/7/2020	Analysis D	ate: 12	2/7/2020	5	SeqNo: 2604047			g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LC	CS-56826	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LC	css	Batch	n ID: 56	826	F	RunNo: 73	3830				
Prep Date: 1	2/7/2020	Analysis D	ate: 12	2/7/2020	S	SeqNo: 26	604048	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	90.6	90	110			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 9

2012281

10-Dec-20

Client: Lucid Er	nergy Delaware						
Project: Riversid	e						
Sample ID: LCS-56809	SampType: LCS	Teo	stCode: EPA Method	8015M/D: Diese	Range	Organics	
Client ID: LCSS	Batch ID: 56809		RunNo: <b>73877</b>	00101112121000	, riange	ergamee	
Prep Date: 12/5/2020	Analysis Date: 12/8/202		SeqNo: 2605170	Units: %Rec			
Analyte		- /alue SPK Ref Val			%RPD	RPDLimit	Qual
Surr: DNOP		5.000	118 30.4	154			Quai
Sample ID: LCS-56813	SampType: LCS	Tor	stCode: EPA Method		Banga	Organias	
Client ID: LCSS	Batch ID: 56813		RunNo: <b>73877</b>	oursia/D. Diese	i Kange	organics	
Prep Date: 12/5/2020	Analysis Date: 12/8/202		SeqNo: 2605171	Units: mg/Kg			
Analyte		- /alue SPK Ref Val			%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)		0.00 0	120 70	130			Quai
Surr: DNOP	6.3	i.000	127 30.4	154			
Sample ID: <b>MB-56809</b>	SampType: MBLK	Tes	stCode: EPA Method	8015M/D: Diese	el Range	Organics	
Client ID: PBS	Batch ID: 56809		RunNo: <b>73877</b>		U	U	
Prep Date: 12/5/2020	Analysis Date: 12/8/202	D	SeqNo: <b>2605176</b>	Units: %Rec			
Analyte	Result PQL SPK	alue SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12	0.00	116 30.4	154			
Sample ID: MB-56813	SampType: MBLK	Tes	stCode: EPA Method	8015M/D: Diese	el Range	Organics	
Sample ID: MB-56813 Client ID: PBS	SampType: MBLK Batch ID: 56813		stCode: EPA Method RunNo: 73877	8015M/D: Diese	el Range	Organics	
		I		8015M/D: Diese Units: mg/Kg	el Range	Organics	
Client ID: PBS	Batch ID: <b>56813</b> Analysis Date: <b>12/8/202</b>	I	RunNo: <b>73877</b> SeqNo: <b>2605177</b>	Units: <b>mg/Kg</b>	el Range %RPD	<b>Organics</b> RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO)	Batch ID: <b>56813</b> Analysis Date: <b>12/8/202</b> Result PQL SPK ND 10	D :	RunNo: <b>73877</b> SeqNo: <b>2605177</b>	Units: <b>mg/Kg</b>	-	-	Qual
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: <b>56813</b> Analysis Date: <b>12/8/202</b> Result PQL SPK ND 10 ND 50	0 value SPK Ref Val	RunNo: <b>73877</b> SeqNo: <b>2605177</b> %REC LowLimit	Units: <b>mg/Kg</b> HighLimit S	-	-	Qual
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	Batch ID: <b>56813</b> Analysis Date: <b>12/8/202</b> Result PQL SPK ND 10 ND 50 12	0 value SPK Ref Val	RunNo: <b>73877</b> SeqNo: <b>2605177</b> <u>%REC LowLimit</u> 120 30.4	Units: <b>mg/Kg</b> HighLimit S	%RPD	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-56878</b>	Batch ID: 56813 Analysis Date: 12/8/202 Result PQL SPK ND 10 ND 50 12 SampType: MBLK	0 SPK Ref Val 0.00	RunNo: <b>73877</b> SeqNo: <b>2605177</b> %REC LowLimit 120 30.4 stCode: <b>EPA Method</b>	Units: <b>mg/Kg</b> HighLimit S	%RPD	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-56878</b> Client ID: <b>PBS</b>	Batch ID:       56813         Analysis Date:       12/8/202         Result       PQL       SPK         ND       10         ND       50         12       12         SampType:       MBLK         Batch ID:       56878	0 second se	RunNo: <b>73877</b> SeqNo: <b>2605177</b> %REC LowLimit 120 30.4 stCode: <b>EPA Method</b> RunNo: <b>73880</b>	Units: mg/Kg HighLimit 9 154 8015M/D: Diese	%RPD	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-56878</b> Client ID: <b>PBS</b> Prep Date: <b>12/9/2020</b>	Batch ID: 56813 Analysis Date: 12/8/202 Result PQL SPK ND 10 ND 50 12 SampType: MBLK Batch ID: 56878 Analysis Date: 12/9/202	0 SPK Ref Val 0.00 Tes	RunNo: <b>73877</b> SeqNo: <b>2605177</b> <u>%REC LowLimit</u> 120 30.4 stCode: <b>EPA Method</b> RunNo: <b>73880</b> SeqNo: <b>2605390</b>	Units: mg/Kg HighLimit 154 8015M/D: Diese Units: mg/Kg	%RPD	RPDLimit Organics	
Client ID: PBS Prep Date: 12/5/2020 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: MB-56878 Client ID: PBS Prep Date: 12/9/2020 Analyte	Batch ID: 56813 Analysis Date: 12/8/202 Result PQL SPK ND 10 ND 50 12 SampType: MBLK Batch ID: 56878 Analysis Date: 12/9/202 Result PQL SPK	0 second se	RunNo: <b>73877</b> SeqNo: <b>2605177</b> <u>%REC LowLimit</u> 120 30.4 stCode: <b>EPA Method</b> RunNo: <b>73880</b> SeqNo: <b>2605390</b>	Units: mg/Kg HighLimit 154 8015M/D: Diese Units: mg/Kg	%RPD	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-56878</b> Client ID: <b>PBS</b> Prep Date: <b>12/9/2020</b> Analyte Diesel Range Organics (DRO)	Batch ID:       56813         Analysis Date:       12/8/202         Result       PQL       SPK         ND       10         ND       50         12       12         SampType:       MBLK         Batch ID:       56878         Analysis Date:       12/9/202         Result       PQL       SPK         ND       10:       50         12       12/9/202       12/9/202         MB       ND       10	0 SPK Ref Val 0.00 Tes	RunNo: <b>73877</b> SeqNo: <b>2605177</b> <u>%REC LowLimit</u> 120 30.4 stCode: <b>EPA Method</b> RunNo: <b>73880</b> SeqNo: <b>2605390</b>	Units: mg/Kg HighLimit 154 8015M/D: Diese Units: mg/Kg	%RPD	RPDLimit Organics	
Client ID: PBS Prep Date: 12/5/2020 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: MB-56878 Client ID: PBS Prep Date: 12/9/2020 Analyte	Batch ID:       56813         Analysis Date:       12/8/202         Result       PQL       SPK         ND       10         ND       50         12       12         SampType:       MBLK         Batch ID:       56878         Analysis Date:       12/9/202         Result       PQL       SPK         ND       10         SampType:       12/9/202         Result       PQL       SPK         ND       10         ND       50	0 SPK Ref Val 0.00 Tes	RunNo: <b>73877</b> SeqNo: <b>2605177</b> <u>%REC LowLimit</u> 120 30.4 stCode: <b>EPA Method</b> RunNo: <b>73880</b> SeqNo: <b>2605390</b>	Units: mg/Kg HighLimit 154 8015M/D: Diese Units: mg/Kg	%RPD	RPDLimit Organics	
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-56878</b> Client ID: <b>PBS</b> Prep Date: <b>12/9/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	Batch ID:       56813         Analysis Date:       12/8/202         Result       PQL       SPK         ND       10         ND       50         12       12         SampType:       MBLK         Batch ID:       56878         Analysis Date:       12/9/202         Result       PQL       SPK         ND       10         ND       10         ND       10         ND       10         ND       50         9.1       50	0 SPK Ref Val 0.00 7es 10 10 10 10 10 10 10 10 10 10 10 10 10	RunNo: <b>73877</b> SeqNo: <b>2605177</b> %REC LowLimit 120 30.4 stCode: <b>EPA Method</b> RunNo: <b>73880</b> SeqNo: <b>2605390</b> %REC LowLimit	Units: mg/Kg HighLimit 154 8015M/D: Diese Units: mg/Kg HighLimit 154	%RPD	RPDLimit Organics RPDLimit	
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-56878</b> Client ID: <b>PBS</b> Prep Date: <b>12/9/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID:       56813         Analysis Date:       12/8/202         Result       PQL       SPK         ND       10         ND       50         12       12         SampType:       MBLK         Batch ID:       56878         Analysis Date:       12/9/202         Result       PQL       SPK         ND       10         SampType:       12/9/202         Result       PQL       SPK         ND       10         ND       50	o SPK Ref Val	RunNo: 73877 SeqNo: 2605177 %REC LowLimit 120 30.4 stCode: EPA Method RunNo: 73880 SeqNo: 2605390 %REC LowLimit 91.3 30.4	Units: mg/Kg HighLimit 154 8015M/D: Diese Units: mg/Kg HighLimit 154	%RPD	RPDLimit Organics RPDLimit	
Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>MB-56878</b> Client ID: <b>PBS</b> Prep Date: <b>12/9/2020</b> Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP Sample ID: <b>LCS-56878</b>	Batch ID: 56813         Analysis Date:       12/8/202         Result       PQL       SPK         ND       10         ND       50         12       12         SampType:       MBLK         Batch ID:       56878         Analysis Date:       12/9/202         Result       PQL       SPK         ND       10         SampType:       MBLK         Batch ID:       56878         Analysis Date:       12/9/202         Result       PQL       SPK         ND       10         ND       50         9.1	0 SPK Ref Val 0.00 Tes 1 0.00 Tes 1 0.00 Tes 1 0.00 Tes 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RunNo:       73877         SeqNo:       2605177         %REC       LowLimit         120       30.4         stCode:       EPA Method         RunNo:       73880         SeqNo:       2605390         %REC       LowLimit         91.3       30.4         stCode:       EPA Method	Units: mg/Kg HighLimit 154 8015M/D: Diese Units: mg/Kg HighLimit 154	%RPD	RPDLimit Organics RPDLimit	

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 9

2012281

10-Dec-20

Page 132 of 140

Client:	Lucid Ene	ergy Delav	vare								
Project:	Riverside										
Sample ID:	LCS-56878	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	LCSS	Batch	n ID: 568	878	F	RunNo: 7	3880				
Prep Date:	12/9/2020	Analysis D	ate: 12	2/9/2020	S	SeqNo: 20	605391	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	43	10	50.00	0	86.1	70	130			
Surr: DNOP		4.3		5.000		86.9	30.4	154			
Sample ID:	2012281-003AMS	SampT	ype: <b>MS</b>	3	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	B-35-C	Batch	n ID: 568	878	F	RunNo: 7	3880				
Prep Date:	12/9/2020	Analysis D	ate: 12	2/9/2020	S	SeqNo: 20	606439	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	44	9.6	48.12	0	90.8	15	184			
Surr: DNOP		2.4		4.812		48.9	30.4	154			
Sample ID:	2012281-003AMSI	<b>)</b> SampT	ype: <b>MS</b>	SD.	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	B-35-C	Batch	n ID: 568	878	F	RunNo: 7	3880				
Prep Date:	12/9/2020	Analysis D	ate: 12	2/9/2020	S	SeqNo: 20	606440	Units: mg/K	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	rganics (DRO)	42	9.3	46.43	0	91.1	15	184	3.33	23.9	
Surr: DNOP		3.7		4.643		79.7	30.4	154	0	0	

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 9

2012281

10-Dec-20

Client: Lucid E	Energy Delay	ware								
Project: Riversi	de									
Sample ID: Ics-56812	SampT	Гуре: <b>LC</b>	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 568	312	F	RunNo: 7	3824				
Prep Date: 12/5/2020	Analysis E	Date: 12	/6/2020	S	SeqNo: 2	602748	Units: mg/K	ſg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Dibromofluoromethane Surr: Toluene-d8	0.53 0.51		0.5000 0.5000		107 102	70 70	130 130			
	0.51	Гуре: МЕ	0.5000	Tes	102	70		iles Short	List	
Surr: Toluene-d8	0.51 SampT	Гуре: <b>МЕ</b> h ID: <b>568</b>	0.5000		102	70 PA Method	130	iles Short	List	
Surr: Toluene-d8 Sample ID: mb-56812	0.51 SampT	h ID: 568	0.5000 BLK 312	F	102 tCode: El	70 PA Method 3824	130		List	
Surr: Toluene-d8 Sample ID: mb-56812 Client ID: PBS	0.51 SampT Batcl	h ID: 568	0.5000 BLK 312 2/6/2020	F	102 tCode: EI RunNo: 7: SeqNo: 20	70 PA Method 3824	130 8260B: Volat		<b>List</b> RPDLimit	Qual
Surr: Toluene-d8 Sample ID: mb-56812 Client ID: PBS Prep Date: 12/5/2020	0.51 SampT Batcl Analysis E	h ID: 568 Date: 12	0.5000 BLK 312 2/6/2020	F S	102 tCode: EI RunNo: 7: SeqNo: 20	70 PA Method 3824 602749	130 8260B: Volat Units: mg/K	ſg		Qual
Surr: Toluene-d8 Sample ID: mb-56812 Client ID: PBS Prep Date: 12/5/2020 Analyte	0.51 SampT Batcl Analysis E Result	h ID: 568 Date: 12 PQL	0.5000 BLK 312 2/6/2020	F S	102 tCode: EI RunNo: 7: SeqNo: 20	70 PA Method 3824 602749	130 8260B: Volat Units: mg/K	ſg		Qual
Surr: Toluene-d8 Sample ID: <b>mb-56812</b> Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Benzene	0.51 SampT Batcl Analysis E Result ND	h ID: 568 Date: 12 PQL 0.025	0.5000 BLK 312 2/6/2020	F S	102 tCode: EI RunNo: 7: SeqNo: 20	70 PA Method 3824 602749	130 8260B: Volat Units: mg/K	ſg		Qual
Surr: Toluene-d8 Sample ID: mb-56812 Client ID: PBS Prep Date: 12/5/2020 Analyte Benzene Foluene Ethylbenzene	0.51 SampT Batcl Analysis E Result ND ND	h ID: 568 Date: 12 PQL 0.025 0.050	0.5000 BLK 312 2/6/2020	F S	102 tCode: EI RunNo: 7: SeqNo: 20	70 PA Method 3824 602749	130 8260B: Volat Units: mg/K	ſg		Qual
Surr: Toluene-d8 Sample ID: mb-56812 Client ID: PBS Prep Date: 12/5/2020 Analyte Benzene Toluene Ethylbenzene	0.51 SampT Batcl Analysis E Result ND ND ND	h ID: 568 Date: 12 PQL 0.025 0.050 0.050	0.5000 BLK 312 2/6/2020	F S	102 tCode: EI RunNo: 7: SeqNo: 20	70 PA Method 3824 602749	130 8260B: Volat Units: mg/K	ſg		Qual
Surr: Toluene-d8 Sample ID: mb-56812 Client ID: PBS Prep Date: 12/5/2020 Analyte Benzene Toluene Ethylbenzene Kylenes, Total	0.51 SampT Batc Analysis E Result ND ND ND ND	h ID: 568 Date: 12 PQL 0.025 0.050 0.050	0.5000 BLK 312 2/6/2020 SPK value	F S	102 tCode: Ef RunNo: 7: SeqNo: 20 %REC	70 PA Method 3824 602749 LowLimit	130 8260B: Volat Units: mg/K HighLimit	ſg		Qual
Surr: Toluene-d8 Sample ID: <b>mb-56812</b> Client ID: <b>PBS</b> Prep Date: <b>12/5/2020</b> Analyte Benzene Toluene Ethylbenzene Kylenes, Total Surr: 1,2-Dichloroethane-d4	0.51 SampT Batc Analysis E Result ND ND ND ND ND 0.53	h ID: 568 Date: 12 PQL 0.025 0.050 0.050	0.5000 BLK 312 2/6/2020 SPK value 0.5000	F S	102 tCode: EF RunNo: 7: SeqNo: 20 %REC 107	70 PA Method 3824 502749 LowLimit 70	130 8260B: Volat Units: mg/K HighLimit 130	ſg		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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 9

WO#: 2012281

10-Dec-20

	cid Energy Dela verside	ware								
Sample ID: Ics-56812	Samp	Type: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Bato	h ID: 56	812	F	unNo: 7	3824				
Prep Date: 12/5/2020	Analysis	Analysis Date: 12/6/2020 SeqNo: 2602785 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	.0) 23	5.0	25.00	0	92.1	70	130			
Surr: BFB	520		500.0		103	70	130			
Sample ID: mb-56812	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS	Bato	h ID: 56	812	F	unNo: 7	3824				
Prep Date: 12/5/2020	Analysis	Date: 12	2/6/2020	5	eqNo: 2	602786	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	(O) ND	5.0								
Surr: BFB	500		500.0		100	70	130			

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 9

2012281

10-Dec-20

.

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu TEL: 505-345-3975 Website: clients.ha	490 Iquerq FAX:	1 Hawi ue, NM 505-34	kins NE 187109 15-4107	Sar	nple Log-In Check L	Page .ist
Client Name: Lucid Energy Delaware	Work Order Number:	2013	2281			RcptNo: 1	
Received By: Cheyenne Cason	12/5/2020 8:00:00 AM						
Completed By: Emily Mocho	12/5/2020 8:42:22 AM						
Reviewed By: SGC 1215/20							
Chain of Custody							
1. Is Chain of Custody complete?		Yes	$\checkmark$	N	o 🗌	Not Present	
2. How was the sample delivered?		<u>Cou</u>	ier				
<u>Log In</u>							
3. Was an attempt made to cool the samples?		Yes	$\checkmark$	No		NA 🗌	
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes Sam		No Not frozen			
5. Sample(s) in proper container(s)?		Yes		1.000			
6. Sufficient sample volume for indicated test(s)?		Yes	$\checkmark$	No			
7. Are samples (except VOA and ONG) properly	preserved?	Yes	$\checkmark$	No			
8. Was preservative added to bottles?		Yes		No	$\checkmark$	NA 🗌	
9. Received at least 1 vial with headspace <1/4" f	or AQ VOA?	Yes		No		NA 🗹	
10. Were any sample containers received broken?	•	Yes		No		# of preserved	
<ol> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> </ol>		Yes	$\checkmark$	No		bottles checked for pH: (<2 or >12 unless	noted)
12. Are matrices correctly identified on Chain of Cu	ustody?	Yes	$\checkmark$	No		Adjusted?	
13. Is it clear what analyses were requested?		Yes	$\checkmark$	No			710
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes,		No		Checked by: Culo	12
Special Handling (if applicable)		11.					
15. Was client notified of all discrepancies with thi	s order?	Yes		No		NA 🗹	
Person Notified:	Date:	this to and			and the same		
By Whom:	Via:	eMa	ail 🗌	Phone [	Fax	In Person	
Regarding:				,	A		
Client Instructions:			And Included in	of photosofic Contract dataset			
16. Additional remarks:							
17. <u>Cooler Information</u>							
Cooler No         Temp °C         Condition         Sea           1         0.1         Good         Yes	I Intact Seal No S	eal D	ate	Signed	Ву		

2	-0.7	Good	Yes	
3	1.4	Good	Yes	

Page 1 of 1

Receiv	ed by (	)CD	): 10/	/29/2	2021	11:2	21:3	3 A i	<i>M</i> –					1	<u> </u>	<u> </u>		1				Т	Т		- Pag	e 137 of	440
	HALL ENVIRONMENTAL ANALYSIS LABORATORY	E	Albuquerque, NM 87109	Fax 505-345-4107																		4 					he analytical report.
		al.co	NN	345-4	lest	(ìn	əsq	A\tn	əsə	19) (Pr	ա	ofilo	D letal C	1.11						1	2. 2						ed on t
		Jenta	srque	505-3	sedu			:u.		(AC	<u>م</u>	iməð	S) 0728	3													notate
		ronn	endne	ax	sis F						(	AO\	) 0928	3													clearly
	E S	www.hallenvironmental.com	Alb	ш	Analysis Request	<sup>†</sup> 09	S '*(	ЪЧ	<sup>'z</sup> ON	۱ ''	ON	3r, 1	ci)E' I	X	Х	X	K						1				will be
	ANAL	v.hal	ч Ц	975	A	2				S	lstal	9 M 8	ARDE	Ī													d data
1		M	ins <sup>1</sup>	45-3			SM	IS0	728	or	018	oy 83	a eHAc	I											2		Itracted
			lawk	05-3					(1.	Þ09	; pc	leth	N) 803												9.9	7.	up-con
			4901 Hawkins NE	Tel. 505-345-3975		-							9 1808 1 P		<u> </u>		$\backslash$								00's:	0	Any s
			49	H	Constant of the								08:H9T	~ \	Х	X	X								0.1 ± 0	470	sibility.
						()	805	) នរុទ្	3W1		38.	HA -	X ATEX	X	Х	X	X								Rei	<u>}</u>	is poss
	XRush 48hr		6				C	1 Cant	and the second	s 🗆 No		5F): See Rown (°C)	Trope 7 0177 %	E 001	002	600	hoo								12/4/20 1410	Date Time	laboratories. This serves as notice of th
Ĕ.	A		510	-		 		9	NG	∮ Ye	3	cluding (	rese	H	-			ſ	)						Kia:	Via:	edited
nd T	ard	ime:	S			anage		No	V	Ę	rs:	mp(inc		10							-	-	,		WW	C	er accr
Turn-Around T	□ Standard	Project Name:	Kivers	Project #:	1	رکوس Project Manager:	VV.	Nichae	Sampler: ,		# of Coolers:	Cooler Temp(including CF):	Container Tvpe and #	4azSeil3	2	_	_							:	Received by:	Received by:	contracted to othe
Chain-of-Custody Record	Clien	) mag	Mailing Address: ON Pile	12/3	Phone #: 3 14 3 30 7 876	email or Fax#: maanto Jucid - energy	24/QC Package:	C Standard C Level 4 (Full Validation)	Accreditation:	NELAC      Other	EDD (Type)		Date Time Matrix Sample Name	251016 S	11/25/1015 S B.34.C	11/25/101% 5 B.JS.C	11/25/1020 5 B'36.C							ŀ	Date: Time: Relinquished by: 12 Why 14 10 AAAAA	Date: Time: Relinquíshed by:	necessary, s



•

Appendix E

**Volume Calculations** 

Month Blowdov	wn Occurred		lune		Year	2020			
Site	AP-Southerr	Union		Employee Name ad Frost/Martin					
			Known	(Station) Volumes					
Al	ll red fields per event must be ent		<mark>olumes co</mark> mber of	orrectly! All yellow fields s	hould be entered if known for Known Volume (MCF)	increased accurac	cy.		
	Type of Blowdown		curances	_	Blowdown		Volume (MCF)		
				Multiplied by		Equals			
				Multiplied by		Equals			
				Multiplied by		Equals			
		<u>Calc</u>	ulated	(Pipeline) Volume	<u>s</u>				
-	<u>Blowdown(s)</u>				Purge/Ven				
Reference Meter Number	Blow (MCF	down :)		Reference Meter Number		Volume Lost (MCF)	35.55		
Pipe ID (in)	Leng (Feet			Beginning Date & Time	06/18/2020 00:00	Vent Duration (Hours)	24.00		
Begin Press. (PSIG)	End F (PSIG	Press. i)		Ending Date & Time	06/19/2020 00:00	Gas Temp			
Gas Temp.	Spec	fic Gravity		Pipe ID (in)	8in Sch. 80	Specific Gravity			
Elevation (ft)				Orifice Size (in)	0.15	Elevation (ft)			
				Avg Pressure	60.00				
Reference Meter Number	Blow (MCF	down		Reference Meter Number		Volume Lost (MCF)			
Pipe ID (in)	Leng (Feet	th		Beginning Date & Time		Vent Duration (Hours)			
Begin Press. (PSIG)		Press.		Ending Date & Time		Gas Temp			
Gas Temp.	Spec	fic Gravity		Pipe ID (in)		Specific Gravity			
Elevation (ft)				Orifice Size (in)		Elevation (ft)			
				Avg Pressure					
Reference Meter Number	Blow (MCF	down		Reference Meter Number		Volume Lost (MCF)			
Pipe ID (in)	Leng (Feet	th		Beginning Date & Time		Vent Duration (Hours)			
Begin Press. (PSIG)		Press.		Ending Date & Time		Gas Temp			
Gas Temp.		fic Gravity		Pipe ID (in)		Specific Gravity			
Elevation (ft)				Orifice Size (in)		Elevation (ft)			
				Avg Pressure					
					Total Vo	lume (MCF):	35.55		
			C	omments:					
			River	rside ASS Leak					

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS
------------

Operator:	OGRID:
Lucid Artesia Company	147831
201 S. Fourth Street	Action Number:
Artesia, NM 88210	58616
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/3/2021

Page 140 of 140 CONDITIONS

Action 58616