



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

November 20, 2014

Kerry Egan
Agave Energy Company
P.O. Box 158
Artesia, NM 88211
TEL: (575) 513-8988
FAX

RE: Dagger Draw Gas System Howell Ranch-4 Mile Draw Leak

OrderNo.: 1411679

Dear Kerry Egan:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/18/2014 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical ReportLab Order **1411679**

Date Reported: 11/20/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Agave Energy Company**Client Sample ID:** HR 4M #1**Project:** Dagger Draw Gas System Howell Ranch-**Collection Date:** 11/14/2014 10:00:00 AM**Lab ID:** 1411679-001**Matrix:** SOIL**Received Date:** 11/18/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/18/2014 3:43:48 PM	16439
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/18/2014 3:43:48 PM	16439
Surr: DNOP	88.4	63.5-128		%REC	1	11/18/2014 3:43:48 PM	16439
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/19/2014 1:22:51 PM	16433
Surr: BFB	92.8	80-120		%REC	1	11/19/2014 1:22:51 PM	16433
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	ND	30		mg/Kg	20	11/18/2014 12:54:39 PM	16438

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical ReportLab Order **1411679**Date Reported: **11/20/2014****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Agave Energy Company**Client Sample ID:** HR 4M #2**Project:** Dagger Draw Gas System Howell Ranch-**Collection Date:** 11/14/2014 10:00:00 AM**Lab ID:** 1411679-002**Matrix:** SOIL**Received Date:** 11/18/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/18/2014 4:14:02 PM	16439
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/18/2014 4:14:02 PM	16439
Surr: DNOP	95.5	63.5-128		%REC	1	11/18/2014 4:14:02 PM	16439
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/19/2014 1:51:36 PM	16433
Surr: BFB	92.0	80-120		%REC	1	11/19/2014 1:51:36 PM	16433
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	ND	30		mg/Kg	20	11/18/2014 1:31:53 PM	16438

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1411679

Date Reported: 11/20/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Agave Energy Company**Client Sample ID:** HR 4M #3**Project:** Dagger Draw Gas System Howell Ranch-**Collection Date:** 11/14/2014 11:00:00 AM**Lab ID:** 1411679-003**Matrix:** SOIL**Received Date:** 11/18/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/18/2014 4:44:15 PM	16439
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/18/2014 4:44:15 PM	16439
Surr: DNOP	97.0	63.5-128		%REC	1	11/18/2014 4:44:15 PM	16439
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/19/2014 2:20:17 PM	16433
Surr: BFB	94.7	80-120		%REC	1	11/19/2014 2:20:17 PM	16433
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	ND	30		mg/Kg	20	11/18/2014 1:44:18 PM	16438

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1411679

Date Reported: 11/20/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Agave Energy Company**Client Sample ID:** HR 4M #4**Project:** Dagger Draw Gas System Howell Ranch-**Collection Date:** 11/14/2014 1:00:00 PM**Lab ID:** 1411679-004**Matrix:** SOIL**Received Date:** 11/18/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	23	10		mg/Kg	1	11/18/2014 5:14:15 PM	16439
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/18/2014 5:14:15 PM	16439
Surr: DNOP	100	63.5-128		%REC	1	11/18/2014 5:14:15 PM	16439
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/19/2014 2:49:01 PM	16433
Surr: BFB	101	80-120		%REC	1	11/19/2014 2:49:01 PM	16433
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	11/19/2014 2:49:01 PM	16433
Toluene	ND	0.049		mg/Kg	1	11/19/2014 2:49:01 PM	16433
Ethylbenzene	ND	0.049		mg/Kg	1	11/19/2014 2:49:01 PM	16433
Xylenes, Total	ND	0.098		mg/Kg	1	11/19/2014 2:49:01 PM	16433
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	11/19/2014 2:49:01 PM	16433
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	ND	30		mg/Kg	20	11/18/2014 1:56:42 PM	16438

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1411679

Date Reported: 11/20/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Agave Energy Company**Client Sample ID:** HR 4M #5**Project:** Dagger Draw Gas System Howell Ranch-**Collection Date:** 11/14/2014 1:00:00 PM**Lab ID:** 1411679-005**Matrix:** SOIL**Received Date:** 11/18/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/18/2014 5:44:13 PM	16439
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/18/2014 5:44:13 PM	16439
Surr: DNOP	92.5	63.5-128		%REC	1	11/18/2014 5:44:13 PM	16439
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/19/2014 1:34:40 PM	16433
Surr: BFB	92.8	80-120		%REC	1	11/19/2014 1:34:40 PM	16433
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	ND	30		mg/Kg	20	11/18/2014 2:09:07 PM	16438

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 12
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report

Lab Order 1411679

Date Reported: 11/20/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Agave Energy Company**Client Sample ID:** HR 4M #6**Project:** Dagger Draw Gas System Howell Ranch-**Collection Date:** 11/14/2014 2:00:00 PM**Lab ID:** 1411679-006**Matrix:** SOIL**Received Date:** 11/18/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/18/2014 6:14:16 PM	16439
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/18/2014 6:14:16 PM	16439
Surr: DNOP	115	63.5-128		%REC	1	11/18/2014 6:14:16 PM	16439
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/19/2014 2:02:22 PM	16433
Surr: BFB	93.6	80-120		%REC	1	11/19/2014 2:02:22 PM	16433
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	ND	30		mg/Kg	20	11/18/2014 2:21:32 PM	16438

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1411679

Date Reported: 11/20/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Agave Energy Company**Client Sample ID:** HR 4M #7**Project:** Dagger Draw Gas System Howell Ranch-**Collection Date:** 11/14/2014 3:00:00 PM**Lab ID:** 1411679-007**Matrix:** SOIL**Received Date:** 11/18/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	45	9.8		mg/Kg	1	11/18/2014 6:44:38 PM	16439
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	11/18/2014 6:44:38 PM	16439
Surr: DNOP	97.6	63.5-128		%REC	1	11/18/2014 6:44:38 PM	16439
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/19/2014 2:30:05 PM	16433
Surr: BFB	97.1	80-120		%REC	1	11/19/2014 2:30:05 PM	16433
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	11/19/2014 2:30:05 PM	16433
Toluene	ND	0.047		mg/Kg	1	11/19/2014 2:30:05 PM	16433
Ethylbenzene	ND	0.047		mg/Kg	1	11/19/2014 2:30:05 PM	16433
Xylenes, Total	ND	0.094		mg/Kg	1	11/19/2014 2:30:05 PM	16433
Surr: 4-Bromofluorobenzene	112	80-120		%REC	1	11/19/2014 2:30:05 PM	16433
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	ND	30		mg/Kg	20	11/18/2014 2:33:58 PM	16438

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1411679

Date Reported: 11/20/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Agave Energy Company**Client Sample ID:** HR 4M #8**Project:** Dagger Draw Gas System Howell Ranch-**Collection Date:** 11/14/2014 4:00:00 PM**Lab ID:** 1411679-008**Matrix:** SOIL**Received Date:** 11/18/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/18/2014 7:14:20 PM	16439
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/18/2014 7:14:20 PM	16439
Surr: DNOP	114	63.5-128		%REC	1	11/18/2014 7:14:20 PM	16439
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/19/2014 2:57:12 PM	16433
Surr: BFB	95.6	80-120		%REC	1	11/19/2014 2:57:12 PM	16433
EPA METHOD 300.0: ANIONS							Analyst: LGP
Chloride	ND	30		mg/Kg	20	11/18/2014 2:46:22 PM	16438

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 8 of 12
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411679

20-Nov-14

Client: Agave Energy Company

Project: Dagger Draw Gas System Howell Ranch-4 Mile

Sample ID	MB-16438		SampType: MBLK		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 16438		RunNo: 22639					
Prep Date:	11/18/2014		Analysis Date: 11/18/2014		SeqNo: 667700		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-16438		SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS		Batch ID:	16438		RunNo:	22639				
Prep Date:	11/18/2014		Analysis Date:	11/18/2014		SeqNo:	667701		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	95.8	90	110				

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411679

20-Nov-14

Client: Agave Energy Company

Project: Dagger Draw Gas System Howell Ranch-4 Mile

Sample ID	MB-16439	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	PBS	Batch ID	16439	RunNo	22594					
Prep Date	11/18/2014	Analysis Date	11/18/2014	SeqNo	667292	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	7.5		10.00		75.0	63.5	128			

Sample ID	LCS-16439	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range Organics					
Client ID	LCSS	Batch ID	16439	RunNo	22594					
Prep Date	11/18/2014	Analysis Date	11/18/2014	SeqNo	667293	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	87.6	68.6	130			
Surr: DNOP	4.3		5.000		85.9	63.5	128			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411679

20-Nov-14

Client: Agave Energy Company

Project: Dagger Draw Gas System Howell Ranch-4 Mile

Sample ID	MB-16433		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	16433		RunNo:	22632				
Prep Date:	11/18/2014		Analysis Date:	11/19/2014		SeqNo:	667913		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	910		1000		91.4	80	120				

Sample ID	LCS-16433		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS		Batch ID:	16433		RunNo:	22632				
Prep Date:	11/18/2014		Analysis Date:	11/19/2014		SeqNo:	667914		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.1	65.8	139				
Surr: BFB	990		1000		98.7	80	120				

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411679

20-Nov-14

Client: Agave Energy Company

Project: Dagger Draw Gas System Howell Ranch-4 Mile

Sample ID	MB-16433		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	16433		RunNo:	22632			
Prep Date:	11/18/2014		Analysis Date:	11/19/2014		SeqNo:	667969		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID	LCS-16433		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	16433		RunNo:	22632			
Prep Date:	11/18/2014		Analysis Date:	11/19/2014		SeqNo:	667970		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.3	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87106
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: AGAVE ENERGY COMP

Work Order Number: 1411679

RcptNo: 1

Received by/date:

Logged By: Ashley Gallegos

11/18/2014 10:20:00 AM

Completed By: Ashley Gallegos

11/18/2014 10:32:14 AM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

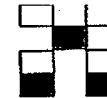
17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	9.2	Good	Yes			

Client: Agave Energy Company

☐ Standard ☒ Rush



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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Mailing Address: PO BOX 158

Artesia, NM 88211

Phone #: (575) 513-8988

email or Fax#: KEgan@yatespetroleum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Project Name: Dagger Draw Gas System:

Howell Ranch-4 Mile Draw Leak

Project #:

Project Manager:

Sampler: Kerry Egan

On Ice: ☒ Yes ☐ No

Sample Temperature: 9.2

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
11/14/14	10AM	Soil	HR 4M #1	Jar (1)	Temp (cool)	-001		x						x								
11/14/14	10AM	Soil	HR 4M #2	Jar (1)	Temp (cool)	-002		x						x								
11/14/14	11AM	Soil	HR 4M #3	Jar (1)	Temp (cool)	-003		x						x								
11/14/14	1PM	Soil	HR 4M #4	Jar (1)	Temp (cool)	-004		x						x								
11/14/14	1PM	Soil	HR 4M #5	Jar (1)	Temp (cool)	-005		x						x								
11/14/14	2PM	Soil	HR 4M #6	Jar (1)	Temp (cool)	-006		x						x								
11/14/14	3PM	Soil	HR 4M #7	Jar (1)	Temp (cool)	-007		x						x								
11/14/14	4PM	Soil	HR 4M #8	Jar (1)	Temp (cool)	-008		x						x								

Date: 11/17/14	Time:	Relinquished by: <i>Kerry Egan</i>	Received by: <i>[Signature]</i>	Date: 11/18/14	Time: 1020	Remarks: 1) For Anions analyses, I only need Cl- concentration. Rush analyses Per Kerry Egan, add BTEX to -004 and -007 on 11/19/14 KMS
Date:	Time:	Relinquished by:	Received by:	Date:	Time:	

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