District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

OPERATOR	Release Notification and Corrective Action															
Surface Owner: BLM							OPERA	TOR		☐ Initi	al Report	\boxtimes	Final Repor			
Surface Owner: BLM																
Surface Owner: BLM				gton, Nivi					043							
LOCATION OF RELEASE County Range Feet from the North/South Line Feet from the South South Rot Feet from the South South Rot Feet from the Rot Feet from the South Rot Feet from the South Rot Feet from the South Rot Feet from the Rot Feet from the Rot Feet from the South Rot Feet from the Rot Feet from th																
Unit Letter Section No. Range South North/South Line Feet from the South East/West Line County Rio Arriba	Surface Ow	ner: BLM			Mineral O	wner:	Fed			API No	o. 30039250	023				
Unit Letter Section No. Range South North/South Line Feet from the South East/West Line County Rio Arriba					LOCA	TIO	N OF RE	LEASE								
Latitude 36.79287Longitude -107.43495 NATURE OF RELEASE Type of Release Produce water Source of Release Wellhead Date and Hour of Occurrence Date and Hour of Occurrence Date and Hour of Occurrence By Whom? Was a Watercourse Reached? Tyes No Not Required Tyes No Not Required Tyes, To Whom? Was a Watercourse Reached? Tyes No Not Required Tyes, Volume Impacting the Watercourse. Oll CONS. DIV DIST. 3 If a Watercourse was Impacted, Describe Fully.* NOV 0 8 2016 Describe Cause of Problem and Remedial Action Taken.* Thread on well Head B-1 adaptor developed a hole in the threads. Well leaked fluid when pumping unit was in service. Shut in pumping unit and leaked stopped Describe Area Affected and Cleanup Action Taken.* On 7/3016 a 5 point composite confirmation sampling was collected along the spill area at a depth of 6" or greater. Analytical results for the BTEX and TPH were below the regulatory standards (ND) set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases. Chlorides testing was conducted as well. Results indicate a greater than 1000 high chloride level in SC 1 and 4. Gypsum was raked into these areas to lower chloride levels. The final lab report is attached for your review. Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform correct eations for releases which may endanger public health of the environment. In adecition, NMOCD acceptance of a C-141 report does not relieve the operator of itability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In adecition, NMOCD 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. OIL CONSERVATION DIVISIO	Carried Control of the Control of th				Contract to the Contract of th				100000000000000000000000000000000000000			_				
NATURE OF Release Produce water Volume of Release 3 bbl Volume Recovered 0	N	23	30N	l 6W						west	Kio Arrib	а				
Volume of Release Volume of Release 3 bbl Volume Recovered 0																
Was Immediate Notice Given? Yes No Not Required If YES, To Whom? Vanessa Fields NMOCD, Katherina Diemer BLM	Type of Release Produce water Volume of Release 3 bbl Volume Recovered 0															
By Whom? Date and Hour Fig. 19 Date and Hour Date and Hour Fig. 19 Date and Hour			head				Date and I	Hour of Occurrence	ce	Date and	Hour of Dis	covery	8			
By Whom? Was a Watercourse Reached? Yes No If a Watercourse was Impacted, Describe Fully.* NOV 0 8 2016 Describe Cause of Problem and Remedial Action Taken.* Thread on well Head B-1 adaptor developed a hole in the threads. Well leaked fluid when pumping unit was in service. Shut in pumping unit and leaked stopped Describe Area Affected and Cleanup Action Taken.* On 7/3016 a 5 point composite confirmation sampling was collected along the spill area at a depth of 6" or greater. Analytical results for the BTEX and TPH were below the regulatory standards (ND) set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases. Chlorides testing was conducted as well. Results indicate a greater than 1000 high chloride level in SC 1 and 4. Gypsum was raked into these areas to lower chloride levels. The final lab report is attached for your review. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, on local laws and/or regulations. Signature: OIL CONSERVATION DIVISION Approved by Environmental Specialist:	Was Immedia	ate Notice C														
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Date: 11-7-6 Phone: (505) 320-3045	Title: Field	Environme	ntal Specialis	st			Approval Date: 12/7/16 Expiration Bate:									
Date: 11-7-6 Phone: (505) 320-3045	E-mail Addre	ess: Robert.	E.Spearman	@conocop	hillips.com		Conditions o	f Approval:	_		Attached					
Attach Additional Sheets If Necessary HNVF 1621 528 3 4141	Date: 11-7-6			Phone:	(505) 320-3045						/ tituened					
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1608006

August 09, 2016

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX

RE: San Juan 30-6 487

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/30/2016 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1608006

Date Reported: 8/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: San Juan 30-6 487

Lab ID:

1608006-001

Client Sample ID: SC-1

Collection Date: 7/29/2016 10:45:00 AM

Received Date: 7/30/2016 9:50:00 AM

Analyses	Result PQL Qual Units			DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	1600	75	mg/Kg	50	8/5/2016 5:51:10 PM	26787
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	KJH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/2/2016 2:20:39 PM	26722
Surr: DNOP	90.6	70-130	%Rec	1	8/2/2016 2:20:39 PM	26722
EPA METHOD 8015D: GASOLINE RAN	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/2/2016 4:38:18 PM	26718
Surr: BFB	98.7	49.4-163	%Rec	1	8/2/2016 4:38:18 PM	26718
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	8/2/2016 4:38:18 PM	26718
Toluene	ND	0.047	mg/Kg	1	8/2/2016 4:38:18 PM	26718
Ethylbenzene	ND	0.047	mg/Kg	1	8/2/2016 4:38:18 PM	26718
Xylenes, Total	ND	0.094	mg/Kg	1	8/2/2016 4:38:18 PM	26718
Surr: 4-Bromofluorobenzene	94.8	80-120	%Rec	1	8/2/2016 4:38:18 PM	26718

Matrix: SOIL

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

- 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
- R RPD outside accepted recovery limits
- 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 Page 1 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1608006

Date Reported: 8/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

San Juan 30-6 487

Lab ID: 1608006-002

Project:

Client Sample ID: SC-2

Collection Date: 7/29/2016 10:53:00 AM

Received Date: 7/30/2016 9:50:00 AM

Analyses	Result	Result PQL Qu		Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	550	30		mg/Kg	20	8/4/2016 6:01:03 PM	26787
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANIC	S				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/2/2016 2:42:43 PM	26722
Surr: DNOP	97.3	70-130		%Rec	1	8/2/2016 2:42:43 PM	26722
EPA METHOD 8015D: GASOLINE RA	NGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/2/2016 5:49:05 PM	26718
Surr: BFB	97.4	49.4-163		%Rec	1	8/2/2016 5:49:05 PM	26718
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.024		mg/Kg	1	8/2/2016 5:49:05 PM	26718
Toluene	ND	0.047		mg/Kg	1	8/2/2016 5:49:05 PM	26718
Ethylbenzene	ND	0.047		mg/Kg	1	8/2/2016 5:49:05 PM	26718
Xylenes, Total	ND	0.094		mg/Kg	1	8/2/2016 5:49:05 PM	26718
Surr: 4-Bromofluorobenzene	92.1	80-120		%Rec	1	8/2/2016 5:49:05 PM	26718

Matrix: SOIL

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

- 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
- R RPD outside accepted recovery limits
- 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 Page 2 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1608006

Date Reported: 8/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-3

Project:

San Juan 30-6 487

Collection Date: 7/29/2016 10:55:00 AM

Lab ID: 1608006-003

Matrix: SOIL

Received Date: 7/30/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	820	30	mg/Kg	20	8/4/2016 6:13:27 PM	26787
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	8/2/2016 3:04:42 PM	26722
Surr: DNOP	93.1	70-130	%Rec	1	8/2/2016 3:04:42 PM	26722
EPA METHOD 8015D: GASOLINE RAN	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/2/2016 6:12:39 PM	26718
Surr: BFB	97.2	49.4-163	%Rec	1	8/2/2016 6:12:39 PM	26718
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	8/2/2016 6:12:39 PM	26718
Toluene	ND	0.049	mg/Kg	1	8/2/2016 6:12:39 PM	26718
Ethylbenzene	ND	0.049	mg/Kg	1	8/2/2016 6:12:39 PM	26718
Xylenes, Total	ND	0.097	mg/Kg	1	8/2/2016 6:12:39 PM	26718
Surr: 4-Bromofluorobenzene	90.7	80-120	%Rec	1	8/2/2016 6:12:39 PM	26718

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

- 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
- R RPD outside accepted recovery limits
- 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 Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1608006

Date Reported: 8/9/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: San Juan 30-6 487

Lab ID: 1608006-004

Matrix: SOIL

Client Sample ID: SC-4

Collection Date: 7/29/2016 10:57:00 AM **Received Date:** 7/30/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	1200	30	mg/Kg	20	8/4/2016 6:25:52 PM	26787
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst	KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/2/2016 3:26:45 PM	26722
Surr: DNOP	104	70-130	%Rec	1	8/2/2016 3:26:45 PM	26722
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/3/2016 12:03:57 AM	26718
Surr: BFB	94.8	49.4-163	%Rec	1	8/3/2016 12:03:57 AM	26718
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	8/3/2016 12:03:57 AM	26718
Toluene	ND	0.048	mg/Kg	1	8/3/2016 12:03:57 AM	26718
Ethylbenzene	ND	0.048	mg/Kg	1	8/3/2016 12:03:57 AM	26718
Xylenes, Total	ND	0.096	mg/Kg	1	8/3/2016 12:03:57 AM	26718
Surr: 4-Bromofluorobenzene	92.4	80-120	%Rec	1	8/3/2016 12:03:57 AM	26718

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

- 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
- R RPD outside accepted recovery limits
- 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 Page 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1608006

09-Aug-16

Client:

Rule Engineering LLC

Project:

San Juan 30-6 487

Sample ID MB-26787

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 26787

RunNo: 36231

Prep Date: 8/4/2016

Analysis Date: 8/4/2016

SeqNo: 1122323

Units: mg/Kg

Analyte

Result PQL

SPK value SPK Ref Val %REC LowLimit

%RPD

%RPD

HighLimit

Qual

Chloride

Client ID:

ND 1.5

Sample ID LCS-26787

LCSS

PBS

8/4/2016

SampType: LCS Batch ID: 26787 TestCode: EPA Method 300.0: Anions

Prep Date: 8/4/2016 Analysis Date: 8/4/2016

14

RunNo: 36231 SeqNo: 1122324

SPK value SPK Ref Val %REC LowLimit

0

Units: mg/Kg

Analyte

Result

PQL

Batch ID: 26787

Analysis Date: 8/4/2016

1.5

SPK value SPK Ref Val

15.00

%REC LowLimit 91.5

%RPD HighLimit 110

RPDLimit

Qual

Qual

Chloride

Client ID:

Prep Date:

Sample ID MB-26787

SampType: MBLK

TestCode: EPA Method 300.0: Anions

SeqNo: 1123236

RunNo: 36257

Units: mg/Kg

HighLimit

RPDLimit

RPDLimit

Analyte Chloride

Result ND 1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 36257

8/4/2016

LCSS

Sample ID LCS-26787

Batch ID: 26787

SeqNo: 1123237

Units: mg/Kg

Analyte Chloride

Client ID:

Prep Date:

Result

14

Analysis Date: 8/4/2016

%REC

HighLimit

%RPD

RPDLimit Qual

1.5

15.00

SPK value SPK Ref Val

92.9

90

110

Qualifiers:

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

Page 5 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

ND

9.1

10

10.00

WO#:

1608006

09-Aug-16

Client:

Rule Engineering LLC

Diesel Range Organics (DRO)

Surr: DNOP

Project: San Ju	an 30-6 487								
Sample ID LCS-26722	SampType: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 26	722	F	RunNo: 3	6150				
Prep Date: 8/1/2016	Analysis Date: 8/	2/2016	8	SeqNo: 1	120062	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	93.4	62.6	124			
Surr: DNOP	5.0	5.000		100	70	130			
Sample ID MB-26722	SampType: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 26	722	F	RunNo: 3	6150				
Prep Date: 8/1/2016	Analysis Date: 8/	2/2016	8	SeqNo: 1	120065	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

91.2

70

130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 6 of 8

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1608006

09-Aug-16

Client:

Rule Engineering LLC

Project:

Analyte

San Juan 30-6 487

Sample ID MB-26718

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: 26718

RunNo: 36162

PQL

5.0

Prep Date: 8/1/2016

Analysis Date: 8/2/2016

SeqNo: 1120148

LowLimit

Units: mg/Kg

163

Qual

Gasoline Range Organics (GRO)

ND 960

Result

SPK value SPK Ref Val

%REC 95.9

49.4

%RPD

RPDLimit

Surr: BFB

SampType: LCS

1000

TestCode: EPA Method 8015D: Gasoline Range

Sample ID LCS-26718 Client ID:

Prep Date: 8/1/2016

LCSS

Batch ID: 26718 Analysis Date: 8/2/2016

RunNo: 36162

HighLimit

Units: mg/Kg

Qual

Analyte Gasoline Range Organics (GRO) Surr: BFB

Result PQL 26 5.0

SPK value SPK Ref Val %REC 25.00 0

LowLimit 80 49.4

120

HighLimit %RPD **RPDLimit**

1100 1000 104 106

SeqNo: 1120149

163

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix S

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

Page 7 of 8

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1608006

09-Aug-16

Client:

Rule Engineering LLC

Project:

San Juan 30-6 487

Sample ID MB-26718	Samp	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	ent ID: PBS Batch ID: 26718				RunNo: 3	6162						
Prep Date: 8/1/2016	Analysis [)ate: 8/	2/2016	S	SeqNo: 1	120176	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										
(ylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	80	120					

Sample ID LCS-26718	S	Tes	tCode: E	PA Method	8021B: Vola	tiles						
Client ID: LCSS	Batch	1D: 26	718	RunNo: 36162								
Prep Date: 8/1/2016	Analysis D	ate: 8/	2/2016	8	SeqNo: 1	120177	Units: mg/k	(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	75.3	123					
Toluene	0.96	0.050	1.000	0	95.7	80	124					
Ethylbenzene	1.0	0.050	1.000	0	99.9	82.8	121					
Xylenes, Total	2.9	0.10	3.000	0	97.6	83.9	122					
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	80	120					

Sample ID 1608006-001AM	S Samp	Type: MS	3	TestCode: EPA Method 8021B: Volatiles							
Client ID: SC-1	Batc	Batch ID: 26718 RunNo: 36162									
Prep Date: 8/1/2016	Analysis [Date: 8/	2/2016	5	SeqNo: 1	120179	Units: mg/F	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.85	0.025	0.9852	0	86.2	71.5	122				
Toluene	0.90	0.049	0.9852	0	91.1	71.2	123				
Ethylbenzene	0.96	0.049	0.9852	0	97.2	75.2	130				
Xylenes, Total	2.9	0.099	2.956	0	97.5	72.4	131				
Surr: 4-Bromofluorobenzene	0.97		0.9852		98.8	80	120				

Sample ID 1608006-001AM	SD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SC-1	718	F	RunNo: 36162							
Prep Date: 8/1/2016	2/2016	5	SeqNo: 1	120180	Units: mg/K	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9681	0	99.8	71.5	122	12.9	20	
Toluene	0.97	0.048	0.9681	0	100	71.2	123	7.81	20	
Ethylbenzene	1.0	0.048	0.9681	0	105	75.2	130	6.29	20	
Xylenes, Total	3.0	0.097	2.904	0	104	72.4	131	4.40	20	
Surr: 4-Bromofluorobenzene	0.95		0.9681		98.1	80	120	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

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 8 of 8



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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Numb	Def: 1608008		RcptNo: 1	
Received by/date X 1 07/30	114			
Logged By: Ashley Gallegos 7/30/2016 9:50:00 A	AM	A		
Completed By: Ashley Gallegos 8/1/2016 9:13:38 Al	м	A		
Reviewed By: AT 08/01/16		9		
Chain of Custody				
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			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗆	
5. Were all samples received at a temperature of >0° 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 🗸	# of preserved	
			bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No 🗆	for pH: (<2 or >12	unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗌	Adjusted?	
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 🗌	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:	•	hone Fax	In Person	
Regarding				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 2.2 Good Yes				

Chain-of-Custody Record				Turn-Around	Turn-Around Time:				126	н	AI		EMI	/TE	20	NIE	4FI	NTA	
Client:	Rule F	Envigee	Non LLC															TO	
				Project Name	9:		-			v	vww.	halle	nviro	men	tal.c	רחכ			
/lailing	Address	901	Airport Dr Suit	0				490)1 H	awkir	ns NE	E - A	Albuqi	uerqu	e. N	M 87	109		
05 F	TA AM LO	intro as	M 87401	Project #:	1		1				5-397			505					
hone #	: 505	793	9486	J San.	Jucan 30	0-6#487							alysis			-	0.54		
			Gorale engineering	Project Mana			_	ly)	9		\top	Т	1						
	Package:		, ,				021	S Or				a	1 %	B's			1		
Stan	dard		□ Level 4 (Full Validation	1) Heatne	r Wood	5	FLUE 's (8021)	(Ga	80			SIMS	12	2 PC					
kccredi				Sampler:)	ustin Uc	alder	BIN	표		=		8270	1	308					9
NEL		□ Othe	r	On loe:	/ Yes	□ No	1 7	+	8	118	504	182	s o	18		(A)			5
] EDD	(Type)			Sample Tem	perature: 2	2	Į.	TBE	9	po	po	<u></u>		cide	8	Ϋ́			2
_				Container	Preservative		BTEX 4-MTBE	BTEX + MTBE + TPH (Gas only)	ТРН 8015B (GRO / DRO / MES	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals Anions (FCINGENDEPORSO.)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request II	Type and #	Type	HEAL NO.	X	X	H 80	E	8	S E	S S	34 P	30B	02			Bub
						1008006	ВТ	ВТ	$\overline{}$	뭐		A B	원	808	82	82			¥
29/10	1045	Spil	52-1	You Glass	Cold	-001	X		X				×						
29/16	1053	Soil	56-2			-002	X		X				X						
0 4 1	1055	Soil	54-3			-003	X		×		Т	\top	×						
29/Le	1057	50:1	Sc-4		1	-004	×		X				×					\top	
7-2		2011								1	\neg	+						\top	
										+	+	+	_	\vdash			_	+	
				_					-	-	+	+	+	+			+	+	
									\dashv	+	+	+	+	+-	-		-	_	-
							-		-	-	+	+	+	-			-	-	-
							-		-	+	+	+	_	-	-		-	_	-
							_			_	4	+	_	-	_		\perp	\perp	
							_			_	4	+	_	_	_			\perp	
		17																	
late:	Time:	Relinquish	ed by:	Received by:	. / 1	Date Time	Ren	narks	3:										
29/16 pate:	528	1/4	Au Men	Wilst	tre was	La 1/29/16 1528													
/ /	Time:	Reinquish	- 11	Received by:	1	pate fime													
29/14	2106	Mis	Mulaters		9 07	130 16 0950													