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 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

OIL CONS. DIV DIST. 3

Form C-141 MAY 18 2016Revised August 8, 2011

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

Signature: Printed Name: Robert Spearman Approved by Environmental Specialist: Approved by Environmental Specialist:	0 S. St. Franci	is Dr., Santa F	e, NM 8750	5	Sa	inta Fe	, NM 875	505		and the second	
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E-mail Address: Robert.E.Spearman@ cop.com Conditions of Approval: Attached	-mail Addres	ss: Robert.E	.Spearman	@ cop.co	m		Conditions o	f Approval:		Attached	
Date: 5-16-16 Phone: 505-324-6131	ate: 5-16-16	5	Phone: 50)5-324-61	31			-	_		
Attach Additional Sheets If Necessary	and the second se						INC	100000	שרור		

Quinn #6 Release Report

Unit Letter A, Section 20, Township 31 North, Range 8 West San Juan County, New Mexico

May 12, 2016

Prepared for: ConocoPhillips 5525 Highway 64 Farmington, New Mexico 87401

Prepared by: Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401



ConocoPhillips Quinn #6 Release Report

Prepared for:

ConocoPhillips 5525 Highway 64 Farmington, New Mexico 87401

Prepared by:

Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401

Heather M. Wood

Heather M. Woods, P.G., Area Manager

Reviewed by:

Russell Knight, PG, Principal Hydrogeologist

May 12, 2016

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Table 2	Field Screening and Laboratory Analytical Results

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Figure 1	Topographic Map
Figure 2	Aerial Site Map

Appendices

Appendix A Executed C-138 Solid Waste Acceptance Form Appendix B Analytical Laboratory Report



1.0 Introduction

The ConocoPhillips Quinn #6 release site is located in Unit Letter A, Section 20, Township 31 North, Range 8 West, in San Juan County, New Mexico. The release of an estimated 23 barrels (bbls) of condensate/oil, discovered on January 7, 2016, was the result of the development of a corrosion hole in the production tank and approximately 22 bbls of the liquid was recovered.

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial site map is included as Figure 2.

Site Name	Quinn #6		
Site Location Description	Unit Letter A, Section 2	20, Township 31 North	n, Range 8 West
Wellhead GPS Location	N36.88750 and W107.69344	Release GPS Location	N36.88739 and W107.69335
Land Jurisdiction	Private	Discovery Date	January 1, 2016
Release Source	Production Tank	Substance(s) Released	Condensate/oil
Volume Released	23 bbls	Volume Recovered	22 bbls
NMOCD Site Rank	10		and the second
Distance to Nearest Surface Water	Unnamed, ephemeral the northwest which dr		mately 580 feet to
Estimated Depth to Groundwater	Greater than 100 feet below grade surface (bgs)	Distance to Nearest Water Well or Spring	Greater than 1,000 feet
Contractor	CF&M		

2.0 Release Summary

3.0 NMOCD Site Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), this site was assigned a ranking score of 10 (Table 1).

Depth to groundwater at the site is estimated to be greater than 100 feet bgs based on the elevation differential between the release location and the wash in Pump Canyon, in addition to the depth to groundwater information published on the New Mexico Office of



the State Engineer (NMOSE) online New Mexico Water Rights Reporting System (NMWRRS) for local registered water wells.

A review was completed of the NMWRRS and no water wells were identified within a 1,000 foot radius of the location. No water wells were observed within a 1,000 foot radius of the location during a visual inspection.

An ephemeral wash traverses the area approximately 580 feet northwest of the release location which drains to Pump Canyon.

Based on the ranking score of 10, action levels for remediated soils at the site are as follows: 10 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

4.0 Field Activities

On April 4, 2016, ConocoPhillips initiated repair activities at the location. CF&M provided heavy equipment operation and repair support. Rule Engineering, LLC (Rule) personnel provided excavation guidance and collected confirmation samples from the resultant excavation.

Approximately 30 cubic yards of soil and 10 bbls of liquid/sludge was excavated and transported to JFJ Landfarm, operated by Industrial Ecosystems, Inc., near Aztec, New Mexico for disposal/remediation. The maximum extent of the excavation measured approximately 38 feet by 19 feet by 1 to 2 feet in depth. The excavation was backfilled with clean, imported material. A depiction of the final excavation with sample locations is included as Figure 2 and the executed C-138 waste acceptance form is provided in Appendix A.

5.0 Soil Sampling

Rule collected two composite confirmation soil samples (SC-1 and SC-2) from the final excavation. Each confirmation soil sample is a representative composite comprised of five to six equivalent portions of soil collected from the sampled area.

A portion of each sample was field screened for volatile organic compounds (VOCs) and TPH. Field screening for VOC vapors was conducted with a photoionization detector (PID). Prior to field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Field analysis for TPH was conducted for selected samples per USEPA Method 418.1, utilizing a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis

knle

Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per U.S. Environmental Protection Agency (USEPA) Method 8021B, TPH (GRO/DRO) per USEPA 8015D and chloride per USEPA Method 300.0. Laboratory analytical results are summarized in Table 2 and presented on Figure 2. The analytical laboratory report is included in Appendix B.

6.0 Field Screening Results

Field screening results for soil confirmation samples SC-1 and SC-2 indicated VOC concentrations of 150 ppm and 5.6 ppm, respectively. The field TPH result for confirmation sample SC-1 was 400 mg/kg and the TPH result for confirmation sample SC-2 was below the reporting limit of 20.0 mg/kg. Field screening results are summarized in Table 2.

7.0 Laboratory Analytical Results

Laboratory analytical results for excavation confirmation sample SC-1 reported the benzene concentration below the laboratory reporting limit of 0.020 mg/kg, which is below the NMOCD action level of 10 mg/kg. Total BTEX concentration for SC-1 was reported as 0.70 mg/kg and the TPH (GRO/DRO) concentration for SC-1 was reported as 132 mg/kg, which are below the NMOCD action levels of 50 mg/kg and 1,000 mg/kg, respectively. The chloride concentration for SC-1 was reported below the laboratory reporting limit of 30 mg/kg.

Laboratory analytical results for excavation confirmation sample SC-2 reported benzene, total BTEX, and TPH (GRO/DRO) concentrations below the laboratory reporting limits, which are below the applicable NMOCD action levels. The chloride concentration for SC-2 was reported as 31 mg/kg.

Laboratory analytical results are summarized in Table 2 and presented on Figure 2. The analytical laboratory report is included in Appendix B.

8.0 Conclusions

The ConocoPhillips Quinn #6 release site is located in Unit Letter A, Section 20, Township 31 North, Range 8 West, in San Juan County, New Mexico. The release of an estimated 23 barrels (bbls) of condensate/oil, discovered on January 7, 2016, was the result of the development of a corrosion hole in the production tank and approximately 22 bbls of the liquid was recovered. Following the excavation of hydrocarbon impacted soils, two confirmation samples (SC-1 and SC-2) were collected from the resultant excavation which measured at the maximum extent approximately 38 feet by 19 feet by 1 to 2 feet in depth. Laboratory analytical results for confirmation samples SC-1 and SC-2 reported benzene, total BTEX, and total TPH (GRO/DRO) concentrations below the applicable NMOCD action levels for a site rank of 10. Approximately 30 cubic yards of soil and 10 bbls of liquid/sludge was excavated and transported to JFJ Landfarm, operated by



Industrial Ecosystems, Inc., near Aztec, New Mexico for disposal/remediation. The excavation as backfilled with clean, imported material.

Based on laboratory analytical results of the confirmation soil samples, no further work is recommended at this time.

9.0 Closure and Limitations

This report has been prepared for the exclusive use of ConocoPhillips and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with ConocoPhillips. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.



Tables



Table 1. NMOCD Site Ranking Determination ConocoPhillips Quinn #6 San Juan County, New Mexico

Ranking Criteria	Ranking	Site-Based	Basis for Determination	Data	
	Score	Ranking Score		Sources	
Depth to Groundwater					
<50 feet	20		Elevation differential information derived from the	NMOCD Online database	
50-99 feet	10	0	topographic map of the area and depth to groundwater information published on the New Mexico Office of the State Engineer's iWaters database.	NMOSE NMWRRS, Anastacio Spring Quadrangle, Google Ear	
>100 feet	0		State Engineer's twaters database.	and Visual Inspection	
Vellhead Protection Area					
<1,000 feet from a water source, or <200 feet	20 (Yes)		No water source or recorded water wells within 1,000	NMOSE NMWRRS, Anastacio Spring	
from private domestic water source		0	foot radius of location.	Quadrangle, Google Earth and Visual Inspection	
	0 (No)				
Distance to Surface Water Body					
<200 horizontal feet	20		An unnamed, ephemeral wash is located approximately	Anastacio Spring	
200 to 1,000 horizontal feet	10	10	580 feet northwest of release location which drains to	Quadrangle, Google Earth	
>1,000 horizontal feet	0		the wash in Pump Canyon.	and Visual Inspection	

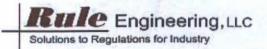


Table 2. Field Screening and Laboratory Analytical Results ConocoPhillips Quinn #6 San Juan County, New Mexico

		Sample e Time	Sample Type	100	Field Scree	ening Results	Laboratory Analytical Results							
Sample ID	Date				VOCs (PID) (ppm)	TPH per Method 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chloride (mg/kg)
	NMOCD Action Levels*		100	1,000	10		-		50	1,0	000	-		
SC-1	4/4/16	12:25	Composite	1.5 to 2	150	400	< 0.020	0.053	< 0.040	0.65	0.70	12	120	<30
SC-2	4/4/16	13:56	Composite	1 to 1.5	5.6	<20.0	< 0.019	< 0.038	< 0.038	< 0.077	<0.172	<3.8	<9.6	31

Notes: VOCs - volatile organic compounds

PID - photoionization detector

TPH - total petroleum hydrocarbons

BTEX - benzene, toluene, ethylbenzene, and total xylenes

*NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993)

GRO - gasoline range organics DRO - diesel range organics ppm - parts per million mg/kg - milligrams/kilograms



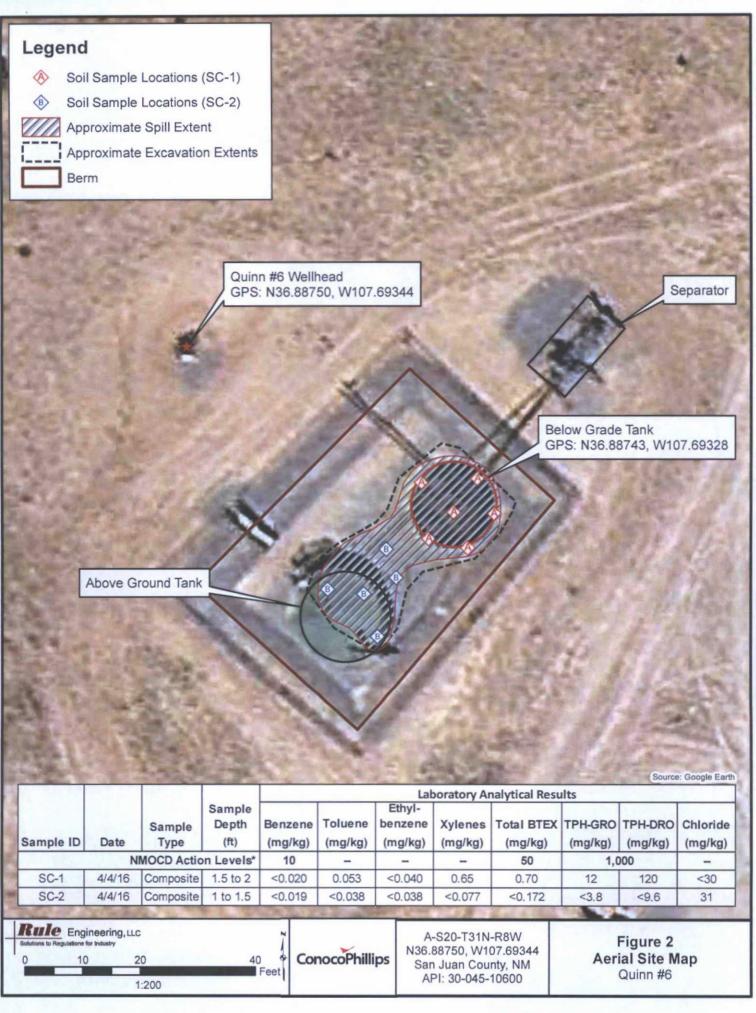
ConocoPhillips Quinn #6 Release Report

Figures

Rule



Document Path: U:\ConocoPhilips\ConocoPhilips\Quinn #6\Quinn #6 Topo Map A.mxd



Appendix A

Executed C-138 Solid Waste Acceptance Form



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 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources

Form C-138 Revised August 1, 2011

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, NM 87505 *Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE	_
ConocoPhillips	
3401 E 30th. St.	
Farmington, New Mexico 87402	
Originating Site: QUINN 6 (Burlington) API# 3004510600	
Billing Information: 20531315 / T110 / 702015 / HZF3 / BRADLRY - Roberts, Danny Keith	
Location of Material (Street Address, City, State or ULSTR):	
Unit A, Section 20, T031N, R008W SAN JUAN, NM Allollo - DCL	
Source and Description of Waste:	
Tank Bottoms Tank wash from cleaning out condensate production tank Tank Bottoms Tank wash from cleaning out condensate production tank Estimated Volume 40 US bbl Known Volume (to be entered by the operator at the end of the haul) Yd	5
GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	-
77711	
I, Generator Signature to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)	
X RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not. Image: how	
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for v characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CF subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazer the appropriate items)	
MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description 4)	
ENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS	
I, Dep Rittory Representative for ConocoPhillips Company authorize JFJ/IEI to complete the required on the Generator Waste Testing Certification.	
I, Jydy chil, representative for Industrial Ecosystems, Inc. do hereby certify that representative set the	
Representative / Agent Signature oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been four to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representation is a section in the samples have been four to the section is a section in the section in the section is a section in the section in the section is a section in the section is a section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section is a section in the section in t	
Transporter: Kelley Oilfield Services	
CD Permitted Surface Waste Management Facility	2
Name and Facility Permit #: JFJ Landfarm / Industrial Ecosystems, Inc. * Permit #: NM 01-0010B	7
Address of Facility: # 49 CR 3150 Aztec, NM 87410	1
Method of Treatment and/or Disposal:	
Evaporation Injection Treating Plant X Landfarm Landfill Other	
aste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)	
RINT NAME: Krusty Selph TITLE: Clork DATE: 44110	
GNATURE: Kurface Waste Management Facility Authorized Agent TELEPHONE NO.: 505-632-1782	(
	~

Appendix B

Analytical Laboratory Report





April 06, 2016

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

OrderNo.: 1604105

RE: CoP Quinn #6

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/5/2016 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 <u>www.hallenvironmental.com</u> 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1604105

of 6

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/6/2016 Client Sample ID: SC-1

CLIENT: Rule Engineering LLC **Project:** CoP Quinn #6 Lab ID: 1604105-001 Matrix: MEOH (SOIL)

Collection Date: 4/4/2016 12:25:00 PM Received Date: 4/5/2016 7:20:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	4/5/2016 10:38:41 AM	24624
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S				Analyst:	KJH
Diesel Range Organics (DRO)	120	9.6		mg/Kg	1	4/6/2016 6:13:47 AM	24618
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/6/2016 6:13:47 AM	24618
Surr: DNOP	97.4	70-130		%Rec	1	4/6/2016 6:13:47 AM	24618
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	RAA
Gasoline Range Organics (GRO)	12	4.0		mg/Kg	1	4/5/2016 1:23:00 PM	24607
Surr: BFB	166	66.2-112	S	%Rec	1	4/5/2016 1:23:00 PM	24607
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Methyl tert-butyl ether (MTBE)	ND	0.079		mg/Kg	1	4/5/2016 1:23:00 PM	24607
Benzene	ND	0.020		mg/Kg	1	4/5/2016 1:23:00 PM	24607
Toluene	0.053	0.040		mg/Kg	1	4/5/2016 1:23:00 PM	24607
Ethylbenzene	ND	0.040		mg/Kg	1	4/5/2016 1:23:00 PM	24607
Xylenes, Total	0.65	0.079		mg/Kg	1	4/5/2016 1:23:00 PM	24607
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	4/5/2016 1:23:00 PM	24607

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method	Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 1 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 age 1 01 0
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	t as specified

Analytical Report Lab Order 1604105

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/6/2016

CLIENT:	Rule Engineering LLC	
Project:	CoP Quinn #6	
Lab ID:	1604105-002	Ma

Client Sample ID: SC-2 Collection Date: 4/4/2016 1:56:00 PM

Matrix: MEOH (SOIL) Received Date: 4/5/2016 7:20:00 AM

Analyses	Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	31	30	mg/Kg	20	4/5/2016 10:51:06 AM	24624
EPA METHOD 8015M/D: DIESEL RAM	GE ORGANIC	s			Analyst	KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/5/2016 10:50:00 AM	24618
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/5/2016 10:50:00 AM	24618
Surr: DNOP	91.5	70-130	%Rec	1	4/5/2016 10:50:00 AM	24618
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	4/5/2016 11:48:52 AM	24607
Surr: BFB	99.1	66.2-112	%Rec	1	4/5/2016 11:48:52 AM	24607
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Methyl tert-butyl ether (MTBE)	ND	0.077	mg/Kg	1	4/5/2016 11:48:52 AM	24607
Benzene	ND	0.019	mg/Kg	1	4/5/2016 11:48:52 AM	24607
Toluene	ND	0.038	mg/Kg	1	4/5/2016 11:48:52 AM	24607
Ethylbenzene	ND	0.038	mg/Kg	1	4/5/2016 11:48:52 AM	24607
Xylenes, Total	ND	0.077	mg/Kg	1	4/5/2016 11:48:52 AM	24607
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	4/5/2016 11:48:52 AM	24607

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

WO#:	1604105
	06-Apr-16

	Engineering LLC Quinn #6
Sample ID MB-24624	SampType: MBLK TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 24624 RunNo: 33339
Prep Date: 4/5/2016	Analysis Date: 4/5/2016 SeqNo: 1024485 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Chloride	ND 1.5
Sample ID LCS-24624	SampType: LCS TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 24624 RunNo: 33339
Prep Date: 4/5/2016	Analysis Date: 4/5/2016 SeqNo: 1024486 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Chloride	14 1.5 15.00 0 93.5 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
- 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 3 of 6

rage 3

WO#:	1604105
	06-Apr-16

Client: Project:	Rule Engi CoP Quin	neering LI n #6	.C							the Carl						
Sample ID	MB-24618	SampTy	/pe: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics						
Client ID:	PBS	Batch	ID: 24	618	F	RunNo: 3	3293									
Prep Date:	4/5/2016	Analysis Da	ate: 4/	/5/2016		SeqNo: 1	022945	Units: mg/H	(g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
	Organics (DRO)	ND	10													
Motor Oil Rang	e Organics (MRO)	ND	50													
Surr: DNOP		9.4		10.00		94.0	70	130		1.5.14						
Sample ID	1604105-001AMS	SampTy	/pe: M	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics						
Client ID:	SC-1	Batch	ID: 24	618	F	RunNo: 3	3293									
Prep Date:	4/5/2016	Analysis Da	ate: 4	/6/2016	5	SeqNo: 1	024358	Units: mg/H	(g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range (Organics (DRO)	180	10	50.25	123.1	107	31.2	162								
Sur: DNOP		5.1		5.025		102	70	130								
Sample ID	1604105-001AMSE	SampTy	pe: Ms	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics						
Client ID:	SC-1	Batch	ID: 24	618	F	RunNo: 3	3293									
Prep Date:	4/5/2016	Analysis Date: 4/6/2016		/6/2016	S	SeqNo: 1024359 Units: mg/Kg				Units: mg/Kg						
Analyte	and the second second	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range (Organics (DRO)	170	9.9	49.70	123.1	85.9	31.2	162	6.34	31.7	2.1					
Surr: DNOP		5.3		4.970		106	70	130	0	0						
Sample ID	LCS-24618	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics						
Client ID:	LCSS	Batch	ID: 24	618	F	RunNo: 3	3293									
Pren Date:	4/5/2016	Analysis Da	ate: 4/	/6/2016	5	SeqNo: 1	024364	Units: mg/k	(g							
riep Date.		-	DOI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Analyte	and the second	Result	PQL	SFR value												
Analyte	Organics (DRO)	Result 47	10		0	93.2	65.8	136								

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 4 of 6

Client: Rule Engineering LLC Project: CoP Quinn #6

Sample ID LCS-24607	SampT	Type: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е							
Client ID: LCSS	Batc	h ID: 24	607	F	RunNo: 3	3301										
Prep Date: 4/4/2016	Analysis D	Date: 4/	5/2016	SeqNo: 1024387 Units: mg/Kg				SeqNo								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	%RPD	RPDLimit	Qual								
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.7	80	120		**************************************							
Surr: BFB	1100		1000		107	66.2	112		diana.							
Sample ID MB-24607	Samp	Гуре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e							
Client ID: PBS	Batc	h ID: 24	607	F	RunNo: 3	3301										
	Analysis Date: 4/5/2016			S	SeqNo: 1	024388	Units: mg/M	Units: mg/Kg								
Prep Date: 4/4/2016																
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual						
Prep Date: 4/4/2016 Analyte Gasoline Range Organics (GRO)		PQL 5.0	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
- 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 5 of 6

WO#: 1604105 06-Apr-16

Client: Project: Rule Engineering LLC CoP Quinn #6

Sample ID LCS-24607	SampT	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles						
Client ID: LCSS	Batc	h ID: 24	607	F	RunNo: 3	3301								
Prep Date: 4/4/2016	Analysis D	Date: 4/	5/2016	S	SeqNo: 1	024408	Units: mg/K	g		mit Qual				
Analyte	Result	PQL	SPK value	SPK Ref Val %R		SPK Ref Val	%REC	LowLimit	HighLimit %RPD			RPDLimit		
Methyl tert-butyl ether (MTBE)	0.96	0.10	1.000	0	95.9	61	143							
Benzene	0.96	0.025	1.000	0	96.3	75.3	123							
Toluene	0.91	0.050	1.000	0	91.1	80	124							
Ethylbenzene	0.88	0.050	1.000	0	88.1	82.8	121							
Xylenes, Total	2.6	0.10	3.000	0	87.5	83.9	122							
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120							
Sample ID MB-24607	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles						
Client ID: PBS	Batc	h ID: 24	607	F	RunNo: 33301 SeqNo: 1024409 Units: mg/Kg									
Prep Date: 4/4/2016	Analysis [Date: 4/	5/2016	S										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Methyl tert-butyl ether (MTBE)	ND	0.10												
Benzene	ND	0.025												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
	1.0		1.000		103	80	120							

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

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	HALL
	ENVIRONMENTAL
-	ANALYSIS
	LABORATORY

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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Numb	ber: 1604105		RcptNo:	1
Received by/date: 02/05/16				
Logged By: Lindsay Mangin 4/5/2016 7:20:00 AM	N	Andytheres		
Completed By: Lindsay Mangin 4/5/2016 7:31:02 AM	N	Andy Happ		
Reviewed By: Ar U4105/16				
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 🗌		
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🛃	No 🗔		
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:	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:	,	Phone Fax	In Person	
Regarding:	Correspondent Additionum	In the second second second	And the second se	
Client Instructions:				
17. Additional remarks:				5.4
18. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By		
1 3.0 Good Yes				

Hent: But Engineering, LLC Standard A Rush Danu Day 501 Aurock Dive, Surk 205 Project Name: www.hallerwinomental.com 1alling Address: Corp Gut on # (c Project Manager: Www.hallerwinomental.com 100 Hawbook Dive, Surk 205 Cop Gut on # (c Project #: Hent: Hent: 100 Fast: Cop Gut on # (c Project #: Hent: Hent: Hent: 100 Fast: Cop Gut on # (c Project Manager: (f) Hent: Hent: ACCP Package: Standard Level 4 (Full Vaildation) Hent:	NMENTAL	ON	TR	NV	FI		10	i.			,		Time:	Turn-Around	stody Record	of-Cu	hain-	С
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