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

OCT 1 5 2015

Form C-141 Revised August 8, 2011

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

# **Release Notification and Corrective Action**

	OPERATOR	Initial Report	$\bowtie$	Final Report
Name of Company Burlington Resources, a Wholly Owned	Contact Lisa Hunter			
Subsidiary of ConocoPhillips Company				
Address 3401 East 30 <sup>th</sup> St, Farmington, NM	Telephone No. (505) 326-9786			1120 041
Facility Name: San Juan 27-5 Unit 48	Facility Type: Gas			

Surface Owner Private

Mineral Owner BLM

API No. 3003906974

#### LOCATION OF RELEASE

	r 0-	reet nom me	Hortin Doutin Line	reet nom me	Last west Line	County	
K 19 27M	05W	1650	South	1650	West	Rio Arriba	

Latitude 36.55738 Longitude -107.40399

#### NATURE OF RELEASE

Type of Release Historic Contamination	Volume of Release Unknown Volume Recovered 647 c/yds				
Source of Release Unknown	Date and Hour of Occurrence     Date and Hour of Discovery       Unknown     April 28, 2015				
Was Immediate Notice Given?	If YES, To Whom? d N/A				
By Whom? N/A	Date and Hour N/A				
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse. N/A				
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* Historic contamination was discovered optimization of location. Initi contractor called to assess historic release	al sample indicated high concentrations of hydrocarbons. Third-party				
Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during optimization of soil was transported to IEI land farm and 647 yds of clean soil was	for the subject well. The excavation was 24' x 26' x 28' in depth and 647 yds transported from Montoya Ranch and placed in the excavation site.				
Analytical results were below the regulatory standards – no further a I hereby certify that the information given above is true and complete to the	he best of my knowledge and understand that pursuant to NMOCD rules and				
regulations all operators are required to report and/or file certain release n public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report d federal, state, or local laws and/or regulations.	otifications and perform corrective actions for releases which may endanger e NMOCD marked as "Final Report" does not relieve the operator of liability e contamination that pose a threat to ground water, surface water, human health loes not relieve the operator of responsibility for compliance with any other				
Signature: John HH	OIL CONSERVATION DIVISION				
Printed Name: Lisa Hunter	Shi				
Title: Field Environmental Specialist	Approval Date: 12/18/15 Expiration Date:				
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:				

Date: October 13, 2015 Phone: (505) 326-9786 \* Attach Additional Sheets If Necessary

#NOCS 1535237248

San Juan 27-5 Unit 48 Release Report Unit Letter K, Section 19, Township 27N, Range 05W N36.55716, W107.40421 Rio Arriba County, New Mexico October 7, 2015

Prepared for:

ConocoPhillips San Juan Business Unit 5525 Highway 64 Farmington, New Mexico 87401

Prepared by:

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



# ConocoPhillips San Juan 27-5 Unit 48 Release Report

Prepared for:

ConocoPhillips San Juan Business Unit 5525 Highway 64 Farmington, New Mexico 87401

Prepared by:

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

eather M. Woo

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

Reviewed by:

Russell Knight, PG, Principal Hydrogeologist

October 7, 2015

# **Table of Contents**

1	Introduction	1
2	Release Summary	1
3	Site Ranking	1
4	Field Activities	2
5	Soil Sampling	2
6	Conclusions	3
7	Closure and Limitations	4

# Tables

Table 1	NMOCD Site Ranking Determination
Table 2	Release Assessment Soil Sampling Results - VOCs and TPH
Table 3	Excavation Closure Laboratory Analytical Results

# Figures

Figure 1	Topographic Map				
Figure 2	Aerial Site Map				

Figure 3 Site Assessment Map

Figure 4 Excavation Closure Map

# Appendices

Appendix A Analytical Laboratory Reports (1505B81, 1508276, and 1508670)

i

### 1 Introduction

A historic release was discovered at the ConocoPhillips San Juan 27-5 Unit 48 well pad during trenching activities. The ConocoPhillips San Juan 27-5 Unit 48 well pad is located in Unit Letter K, Section 19, Township 27N, Range 5W in Rio Arriba County, New Mexico. Remedial activities included release assessment, excavation of hydrocarbon impacted soils, and confirmation soil sampling. A topographic map of the location is included as Figure 1 and an aerial site map is included as Figure 2.

### 2 Release Summary

Site Name – San Juan 27-5 Unit 48 Location – Unit Letter K, Section 19, Township 27N, Range 05W API Number – 30-039-06974 Location Latitude/Longitude – N36.55716 and W107.40421, respectively Release Latitude/Longitude – N36.55738 and W107.40399, respectively Land Jurisdiction – Federal Agency Jurisdiction – New Mexico Oil Conservation Division (NMOCD) Source of Release – Historic Release Contents – Unknown Release Volume – Unknown NMOCD Ranking – 20 Date(s) of Rule Engineering, LLC (Rule) Field Work – May 8, May 27, June 29, and August 6, 2015 Disposal Facility – Industrial Ecosystems Inc. (IEI) Land Farm (Permit #NM-01-0010B) Amount of Contaminated Soil Excavated/Disposed – approximately 647 cubic yards

### 3 Site Ranking

In accordance with EPO and New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), this site was assigned a ranking score of 20 (Table 1). Based on the ranking score of 20, 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 100 mg/kg total petroleum hydrocarbons (TPH).

Depth to groundwater at the site was estimated to be less than 50 feet below grade surface (bgs) based on a cathodic report for the San Juan 27-5 Unit #48 reporting depth to groundwater at 35 feet bgs.

A review was completed of the New Mexico Office of the State Engineer online New Mexico Water Rights Reporting System and no water wells were identified within a 1,000 feet radius of the release location.

The nearest surface water, Carrizo Wash, is located approximately 1,200 feet west of the release location.

#### **4** Field Activities

On May 8, 2015, Rule personnel advanced six soil borings (SB-1 though SB-6) utilizing a hand auger to collect soils samples in the historic release area. Soil borings SB-1 though SB-6 were advanced to maximum depths ranging from approximately 8 to 13 feet bgs, where auger refusal or the limits of the equipment was reached. Based on the results of this assessment, impacted soils from an area of excavation measuring 24 feet by 24 feet by 15 feet in depth were transported to the IEI landfarm facility. On May 27, 2015, confirmation soil samples SC-1 through SC-4 were collected from the sidewalls of the excavation for laboratory analysis. Field screening activities indicated that contaminant concentrations exceeded NMOCD action levels for the base of the excavation, thus the base was not sampled for laboratory analysis. The excavation was backfilled with clean, imported material in anticipation of a continued site assessment to determine the vertical extent of contaminated soils.

On July 29, 2015, the continued site assessment was conducted utilizing a direct push drill rig. Four soil borings (GP-1 through GP-4) were advanced to approximate depths ranging from 24 to 36 feet bgs. Auger refusal was encountered in soil boring GP-2 at approximately 31 feet bgs. Soil boring GP-1 was advanced in the estimated hydrologic down-gradient direction of the release area, soil boring GP-2 was advanced within the release area footprint, and soil borings GP-3 and GP-4 were advanced in the estimated hydrologic cross-gradient directions of the release area. Figure 3 provides the locations and results of the soil samples collected during the release assessments.

Based on the results of the continued assessment, the top 15 feet of backfilled soil from the initial excavation was removed from the initial excavation footprint and set aside for final backfill material. The excavation was then extended to approximately 26 feet by 24 feet by 28 feet in depth. Confirmation soil samples SC-5 through SC-8 were collected from the lower half of each of the sidewalls and SC-9 was collected from the excavation base on August 6, 2015. Based on laboratory analytical results, TPH as gasoline range organics (GRO) and diesel range organics (DRO) exceeded the NMOCD action level. A Quantum Growth<sup>™</sup> product was applied to the base of the excavation on August 11, 2015, and confirmation soil sample SB-10 was collected by ConocoPhillips personnel on August 13, 2015. The remainder of the contaminated soils were transported to the IEI landfarm facility. Figure 4 provides the locations and results of the soil samples collected during the excavation closure.

### **5** Soil Sampling

Rule collected a total of 50 soil samples from the ten soil borings (SB-1 through SB-6 and GP-1 through GP-4) advanced during the initial and continued release assessments. Rule also collected nine confirmation soil samples (SC-1 through SC-9) from the sidewalls and base of the excavation and ConocoPhillips personnel collected one confirmation soil sample (SC-10) from the base of the excavation.

#### San Juan 27-5 Unit 48 Release Report

A portion of each soil sample collected by Rule was field screened for volatile organic compounds (VOCs) and selected samples were field analyzed for TPH per United States Environmental Protection Agency (USEPA) Method 418.1.

Field screening for VOC vapors was conducted with a photo-ionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas.

Field analysis for TPH was conducted using 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 Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per USEPA Method 8021B or 8260B and TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

Field screening results for the soil samples collected from the soils borings during the initial and continued assessments indicated VOC concentrations ranging from 0.5 ppm to 2,363 ppm and TPH concentrations for the selected samples ranging from 35.7 mg/kg to greater than 10,000 mg/kg. Field sampling results for the assessment samples are summarized in Table 2 and presented on Figure 3.

Laboratory analytical results for the excavation sidewall confirmation samples SC-1 through SC-8 reported benzene, total BTEX, and TPH as GRO/DRO concentrations below the applicable NMOCD action levels. Laboratory analytical results for the excavation base confirmation sample SC-9 reported benzene and total BTEX concentrations below the applicable NMOCD action levels, but exceed the NMOCD action level for TPH as GRO/DRO with 139 mg/kg. However, laboratory analytical results for confirmation sample SC-10 collected from the base of the excavation subsequent to application of the Quantum Growth<sup>™</sup> product reported TPH as GRO/DRO concentrations below the NMOCD action level. Laboratory analytical results for the excavation confirmation samples are summarized in Table 3 and presented on Figure 4. The analytical laboratory reports are included in Appendix A.

### 6 Conclusions

A historic release was discovered at the ConocoPhillips San Juan 27-5 Unit 48 well pad during trenching activities. Remedial activities included excavation of a total of approximately 647 cubic yards of hydrocarbon contaminated soils from within the impacted area. The final excavation measured approximately 26 feet by 24 feet by 28 feet in depth. Confirmation soil samples were collected from the sidewalls of the original excavation on May 27, 2015. Additional soil confirmation samples were collected from the sidewalls on the sidewalls and base of the excavation on August 6, 2015, and based on the

exceedance of the sample from the base of the excavation, the soils were amended with a remediation product and resampled on August 13, 2015.

Laboratory analytical results for the excavation confirmation samples (SC-1 through SC-10) reported benzene and total BTEX concentrations below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. Laboratory analytical results for the excavation base confirmation sample SC-9 reported benzene and total BTEX concentrations below the applicable NMOCD action levels, but exceed the NMOCD action level for TPH. However, laboratory analytical results for confirmation sample SC-10 collected from the base of the excavation subsequent to application of the Quantum Growth<sup>™</sup> product reported TPH as GRO/DRO concentrations below the NMOCD action level of 100 mg/kg.

Based on the laboratory analytical results for the excavation confirmation samples, no further work is recommended.

### 7 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 proposal, the report, and Rule's 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.

San Juan 27-5 Unit 48 Release Report

# Tables

ConocoPhillips

### Table 1. NMOCD Site Ranking Determination San Juan 27-5 Unit 48 Rio Arriba County, New Mexico ConocoPhillips

Ranking Criteria	Ranking Score	Site-Based Ranking Score	Basis for Determination	Data Sources	
Depth to Groundwater	1				
<50 feet	20		3	NMOCD Online database	
50-99 feet	10	20	Cathodic Report for the San Juan 27-5 Unit 48 reports depth to groundwater is 35 feet.	Santos Peak Quadrangle, Google Earth, and Visual	
>100 feet	0			Парескоп	
Wellhead Protection Area					
<1,000 feet from a water source, or <200 feet from private domestic water source	20 (Yes)	0	No water source or recorded water wells within 1,000	NMOSE NMWRRS, Santos Peak Quadrangle, Google Earth, and Visual Inspection	
	0 (No)		teet radius of location.		
Distance to Surface Water Body					
<200 borizontal fact	20	1			
200 to 1,000 horizontal feet	10	0	Carrizo Wash is locataed approximately 1,200 feet west	Santos Peak Quadrangle, Google Earth, and Visual	
>1.000 horizontal feet	0	Called States		Inspection	



### Table 2. Release Assessment Soil Sampling Results-VOCs and TPH San Juan 27-5 Unit 48 Rio Arriba County, New Mexico ConocoPhillips

· · · · · · · · · · · · · · · · · · ·	-	Sample Depth	VOCs* (PID)	TPH* (418.1)
Sample ID	Date	(ft bgs)	(ppm)	(mg/kg)
	NMO	CD Action Levels**	100	100
		0.0	147	
		2.0	1,944	0
SB-1	May 08, 15	4.0	1,990	>10,000
		8.0	1,482	
		13.0	145	106
		2.0	1.0	
SB-2	May 08, 15	4.5	0.9	
		8.0	2.1	
		2.0	1.5	
SB 3	May 08 15	4.0	0.8	
50-5	Way 00, 13	7.5	1,417	
		8.5	2,363	701
		2.5	1.1	
SB-4	May 08, 15	4.5	0.5	
		8.5	2.6	43.5
		2.0	2.6	
SB-5	May 08, 15	4.5	0.8	
		8.5	0.7	
		2.5	1.0	
SB-6	May 08, 15	4.5	0.8	
		8.0	1.0	35.7
		4.0	NS	
		8.0	NS	
		12.0	1.5	
		16.0	0.6	
GP-1	Jun 29, 15	20.0	0.7	
		24.0	2.3	
		28.0	2.9	
		32.0	1.7	
and the second second		36.0	2.7	



		Sample Depth	VOCs* (PID)	TPH* (418.1)
Sample ID	Date	(ft bgs)	(ppm)	(mg/kg)
	NMO	CD Action Levels**	100	100
		0-12	NS	
		16.0	38.3	5 F. F
		20.0	1,168	
GP.2	lup 20, 15	24.0	1,627	826
GP-2	Juli 29, 15	28.0	109	
		29.0	24.3	111
		30.5	43.2	41.0
		31.0	auger refusal	
	Jun 29, 15	4.0	1.7	
		8.0	1.0	
CP 2		12.0	0.9	12 M
GF-J		16.0	0.6	
		20.0	0.9	
		24.0	1.0	
		4.0	2.1	
		8.0	2.3	11-11-11-11-11-11-11-11-11-11-11-11-11-
CD 4	lup 20 15	12.0	2.1	
GF-4	Juli 29, 15	16.0	3.0	
		20.0	1.8	
		24.0	1.9	

Notes:

\* field results

VOCs - volatile organic compounds

PID - photo-ionization detector

ft bgs - feet below ground surface

ppm - parts per million

mg/kg - milligrams/kilograms

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH-total petroleum hydrocarbons per USEPA Method 418.1

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



### Table 3. Excavation Closure Laboratory Analytical Results San Juan 28-7 Unit 48 Rio Arriba County, New Mexico ConocoPhillips

						Laborate	ory Analytic	al Results		2.5
Sample ID	Date	Sample Type	Sample Depth (ft)	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)
NMOCD Action Levels*		10	-	-	1991 <b>- 1</b> 994 - 1	50	1	00		
SC-1	May 27, 15	Composite	1 to 15	< 0.049	< 0.049	< 0.049	<0.098	ND	<4.9	<9.8
SC-2	May 27, 15	Composite	1 to 15	< 0.049	< 0.049	< 0.049	< 0.097	ND	<4.9	<9.6
SC-3	May 27, 15	Composite	1 to 15	< 0.050	<0.050	< 0.050	<0.099	ND	<5.0	<9.8
SC-4	May 27, 15	Composite	1 to 15	< 0.048	<0.048	<0.048	<0.095	ND	<4.8	<9.6
SC-5	Aug 06, 15	Composite	15 to 28	< 0.038	1.2	0.29	3.9	5.4	25	<10
SC-6	Aug 06, 15	Composite	15 to 28	< 0.035	< 0.035	< 0.035	<0.071	ND	<3.5	<9.8
SC-7	Aug 06, 15	Composite	15 to 28	< 0.034	< 0.034	< 0.034	< 0.067	ND	<3.4	<9.5
SC-8	Aug 06, 15	Composite	15 to 28	< 0.033	0.064	< 0.033	0.36	0.42	3.4	<10
SC-9	Aug 06, 15	Composite	28	< 0.032	0.094	< 0.032	2.1	2.2	73	66
SC-10	Aug 13, 15	Composite	28	< 0.032	0.094	< 0.032	< 0.064	ND	<3.2	<9.5

Notes: PID - photo-ionization detector

mg/kg - milligrams/kilograms

TPH - total petroleum hydrocarbons

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

ND - not detected above the laboratory reporting limits

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



Figures

ConocoPhillips







GP-4 VOCs 2.1 4.0' VOCs GP-1 2.3 8.0' 2.1 4.0 NA 12.0' VOCs TPH (418.1) SB-6 3.0 NA 16.0' 8.0' NA 2.5' 1.5 20.0' 1.8 1.0 12.0' NA 1.9 4.5 0.8 24.0' 16.0' 0.6 8.0' 35.7 1.0 20.0 0.7 24.0' 2.3 TPH (418.1) SB-1 VOCs 28.0' 2.9 TPH (418.1) VOCs SB-3 0.0' 147 NA 32.0' 1.7 1,944 NA 2.0' 1.5 2.0' 2.7 NA 36.0' NA 1,990 4.0' 0.8 4.0' >10,000 7.5' 1,417 NA GP-4 8.0' 1,482 NA GP-1 2,363 701 145 8.5' 13.0' 106 SB-6 VOCs SB-2 SB-4 SB-3 2.0' 1.0 VOCs | TPH (418.1) SB-2 SB-4 4.5' 0.9 . SB-1 8.0'- 2.1 NA 2.5' 1.1 GP-2 NA 4.5' 0.5 8.5' 2.6 43.5 SB-5 GP-2 VOCs TPH (418.1) SB-5 VOCs 16.0 38.3 =11 GP-3 NA 2.0' 0.8 20.0' 1,168 NA 0.7 AST 4.5' GP-3 VOCs 24.0' 826 1,627 300 bbl 0.5 8.5' 28.0' NA 109 1.7 4.0' 29.0' 24.3 111 1.0 8.0' 30.5 43.2 41.0 12.0 0.9 NA 31.0' NA 0.6 16.0' 0.9 20.0' 24.0' 1.0 BGT 120 bbl Legend Soil Boring, Hand Auger, 5/8/2015 Soil Boring, Direct Push Rig, 6/29/2015 B Fence Below Grade Tank (BGT) Berm Separator Above Ground Storage Tank (AST) Notes: VOCs= Volatile Organic Compounds (ppm) TPH= Total Petroleum Hydrocarbons (mg/kg);

analyzed per 418.1 NA= Not analyzed Depths are in feet below grade surface.

10

20

eet

Rule Engineering, LLC

1	Location K-19-27N-5W N36.55716, W107 Rio Arriba County,	.40421 New Mexico	Site Assessment Map ConocoPhillips San Juan 27-5 Unit 48 API: 30-039-06974		
	Date: 10/8/2015	File: 151005	Site Assessment Map	Figure: 3	

Document Path: U:\ConocoPhilips\San Juan 27-5 Unit 48\151005 Site Assessment Map.mxd



# Appendix A Analytical Laboratory Reports

ConocoPhillips



June 02, 2015

Deborah Watson

Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 860-2712 FAX

RE: San Juan 27-5 Unit 48

OrderNo.: 1505B81

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Deborah Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/28/2015 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analy	sis Labora	tory, Inc.			Date Reported: 6/2/201	5
CLIENT: Rule Engineering LLC Project: San Juan 27-5 Unit 48 Lab ID: 1505B81-001	Client Sample ID: SC-1 Collection Date: 5/27/2015 8:43 Matrix: SOIL Received Date: 5/28/2015 7:00					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/29/2015 2:13:29 PM	19441
Surr: DNOP	97.9	57.9-140	%REC	1	5/29/2015 2:13:29 PM	19441
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2015 2:02:30 PM	19435
Surr: BFB	88.1	75.4-113	%REC	1	5/29/2015 2:02:30 PM	19435
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	5/29/2015 2:02:30 PM	19435
Toluene	ND	0.049	mg/Kg	1	5/29/2015 2:02:30 PM	19435
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2015 2:02:30 PM	19435
Xylenes, Total	ND	0.098	mg/Kg	1	5/29/2015 2:02:30 PM	19435
Surr: 4-Bromofluorobenzene	94.1	80-120	%REC	1	5/29/2015 2:02:30 PM	19435

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

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- Е 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
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Р Sample pH Not In Range
- RL Reporting Detection Limit

Page 1 of 7

**Analytical Report** Lab Order 1505B81

#### Lab Order 1505B81

Date Reported: 6/2/2015

5/29/2015 2:34:48 PM

5/29/2015 2:34:48 PM

5/29/2015 2:31:12 PM 19435

5/29/2015 2:31:12 PM 19435

Analyst: KJH

Analyst: NSB

Analyst: NSB

19441

19441

19435

19435

19435

19435

19435

### Hall Environmental Analysis Laboratory, Inc.

**EPA METHOD 8015D: DIESEL RANGE ORGANICS** 

**EPA METHOD 8015D: GASOLINE RANGE** 

**Diesel Range Organics (DRO)** 

Gasoline Range Organics (GRO)

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Analyses		Result	RL	Qual	Units	DF Date Analyzed	Batch				
Lab ID:	1505B81-002	Matrix:	SOIL	Received Date: 5/28/2015 7:00:00 AM							
Project:	San Juan 27-5 Unit 48				Collection	Date: 5/27/2015 8:50:00 AM					
CLIENT:	Rule Engineering LLC		Client Sample ID: SC-2								

9.6

4.9

57.9-140

75.4-113

0.049

0.049

0.049

0.097

80-120

mg/Kg

%REC

mg/Kg

%REC

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%REC

1

1

1

1

1

1

1

1

1

ND

103

ND

93.8

ND

ND

ND

ND

95.0

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 Metho	od Blank		
	E	Value above quantitation range	Н	Holding times for preparation or analysi	s exceeded		
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 2 of 7		
	O RSD is greater than RSDlimit		Р	Sample pH Not In Range			
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit			
	S	Spike Recovery outside accepted recovery limits					

<b>Analytical Report</b>
Lab Order 1505B81

Date Reported: 6/2/2015

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLCProject:San Juan 27-5 Unit 48Lab ID:1505B81-003	Client Sample ID: SC-3Collection Date: 5/27/2015 8:40:00 AMMatrix: SOILReceived Date: 5/28/2015 7:00:00 AM										
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch					
EPA METHOD 8015D: DIESEL RANGE	ORGANICS		14.14		Analyst	KJH					
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/29/2015 2:56:04 PM	19441					
Surr: DNOP	102	57.9-140	%REC	1	5/29/2015 2:56:04 PM	19441					
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	NSB					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2015 7:18:38 PM	19435					
Surr: BFB	87.6	75.4-113	%REC	1	5/29/2015 7:18:38 PM	19435					
EPA METHOD 8021B: VOLATILES					Analyst	NSB					
Benzene	ND	0.050	mg/Kg	1	5/29/2015 7:18:38 PM	19435					
Toluene	ND	0.050	mg/Kg	1	5/29/2015 7:18:38 PM	19435					
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2015 7:18:38 PM	19435					
Xylenes, Total	ND	0.099	mg/Kg	1	5/29/2015 7:18:38 PM	19435					
Surr: 4-Bromofluorobenzene	91.2	80-120	%REC	1	5/29/2015 7:18:38 PM	19435					

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

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 Not In Range
- RL Reporting Detection Limit
- Page 3 of 7

#### Lab Order 1505B81

Date Reported: 6/2/2015

# Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Rule Engineering LLC	Client Sample ID: SC-4										
Project:	San Juan 27-5 Unit 48		Collection Date: 5/27/2015 10:20:00									
Lab ID:	1505B81-004	Matrix: SOIL			Received Date: 5/28/2015 7:00:00 AM							
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch				
EPA MET	HOD 8015D: DIESEL RANG	E ORGANICS					Analyst	KJH				
Diesel R	ange Organics (DRO)	ND	9.6	-	mg/Kg	1	5/29/2015 3:17:18 PM	19441				
Surr: DNOP		96.5	57.9-140		%REC	1	5/29/2015 3:17:18 PM	19441				
EPA MET	HOD 8015D: GASOLINE RA	NGE					Analyst	NSB				
Gasoline	Range Organics (GRO)	ND	4.8		mg/Kg	1	5/29/2015 7:47:21 PM	19435				
Surr: E	BFB	87.1	75.4-113	(	%REC	1	5/29/2015 7:47:21 PM	19435				
EPA MET	HOD 8021B: VOLATILES						Analyst	NSB				
Benzene		ND	0.048		mg/Kg	1	5/29/2015 7:47:21 PM	19435				
Toluene		ND	0.048		mg/Kg	1	5/29/2015 7:47:21 PM	19435				
Ethylben	zene	ND	0.048		mg/Kg	1	5/29/2015 7:47:21 PM	19435				
Xylenes,	Total	ND	0.095	14 - 14 A	mg/Kg	1	5/29/2015 7:47:21 PM	19435				
Surr: 4	4-Bromofluorobenzene	93.5	80-120		%REC	1	5/29/2015 7:47:21 PM	19435				

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 Metho	ethod Blank	
	E	Value above quantitation range	н	Holding times for preparation or analysis	s exceede	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page	
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 ag	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		
	S	Spike Recovery outside accepted recovery limits				

1

- preparation or analysis exceeded
- ne Reporting Limit
  - Range
    - on Limit
- Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

Client:Rule Engineering LLCProject:San Juan 27-5 Unit 48

Sample ID MB-19441	SampT	SampType: MBLK			TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch ID: 19441			RunNo: 26483								
Prep Date: 5/28/2015	Analysis D	Date: 5/	/29/2015	S	SeqNo: 7	87162	Units: mg/h	٢g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Surr: DNOP	11		10.00		106	57.9	140		1.1			
Sample ID LCS-19441	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (	Organics			
Client ID: LCSS	Batch	n ID: 19	441	F	RunNo: 2	6483						
Prep Date: 5/28/2015	Analysis D	)ate: 5/	29/2015	S	SeqNo: 7	87632	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	49	10	50.00	0	97.3	67.8	130					
O DUOD	5.0		F 000		105	<b>CT 0</b>	4.40					

- \* 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 Not In Range
- RL Reporting Detection Limit

Page 5 of 7

1505B81

WO#:

02-Jun-15

Hall Environmental Analysis Laboratory, Inc.

WO#: 1505B81

02-Jun-15

Client:	Rule Engineering LLC
Project:	San Juan 27-5 Unit 48

Sample ID MB-19435 Client ID: PBS Pren Date: 5/28/2015	SampT Batcl Analysis F	ype: MI h ID: 19	3LK 435 29/2015	TestCode: EPA Method 8 RunNo: 26493 SeoNo: 787646			d 8015D: Gasoline Range				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO) Surr: BFB	ND 880	5.0	1000		87.7	75.4	113				
Sample ID LCS-19435	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	le		
Client ID: LCSS	Batch	n ID: 19	435	F	RunNo: 2	6493					
Prep Date: 5/28/2015	Analysis E	Date: 5/	29/2015	5	SeqNo: 7	87647	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.0	64	130				
Surr: BFB	930		1000		93.4	75.4	113				

#### 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 Not In Range
- RL Reporting Detection Limit

Page 6 of 7

## Hall Environmental Analysis Laboratory, Inc.

#### **Client:** Rule Engineering LLC **Project:** San Juan 27-5 Unit 48

Sample ID MB-19435	Samp	Туре: МВ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch ID: 19435			F	RunNo: 26493					
Prep Date: 5/28/2015	Analysis [	Date: 5/	29/2015	5	SeqNo: 7	87670	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050					1977			
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	80	120			
Sample ID LCS-19435	Samp	Гуре: LC	s	TestCode: EPA Method 8021B: Volatiles						1.0.0
Client ID: LCSS	Batc	h ID: 19	435	RunNo: 26493						
Prep Date: 5/28/2015	Analysis [	Date: 5/	29/2015	5	SeqNo: 7	87671	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	76.6	128			
Toluene	1.1	0.050	1.000	0	106	75	124			
Ethylbenzene	1.1	0.050	1.000	0	106	79.5	126			
Kylenes, Total	3.2	0.10	3.000	0	106	78.8	124			
O	10		4 000		404	00	100			

#### Qualifiers:

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

Page 7 of 7

02-Jun-15

WO#: 1505B81

HALL Hall Environment ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-39 Website: www	ttal Analysis Labora 4901 Hawkin Albuguergue, NM 8 975 FAX: 505-345- v.kallenvironmental	atory s NE 7109 <b>Sam</b> 4107 .com	Sample Log-In Check List			
Client Name: RULE ENGINEERING LL Work Order Numb	her: 1505B81	and the second	RcptNo: 1			
Received by/date: AG 05/28/ Logged By: Ashley Gallegos 5/28/2015 7:00:00 / Completed By: Ashley Gallegos 5/28/2015 7:45:16 / Reviewed By: AG 05/23/15	15 AM AM	Ag				
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 dolivered?	Courier					
Log In						
4. Was an attempt made to cool the samples?	Yes M	No 🗆	NA 🗆			
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			
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)						
	prove a	-	(T2)			

6	Was client not	ified of all d	screpancies v	with this order		Yes L	1	No	NA M
	Person M By Whor	Notified:			Date Via:	C eMail	C Ph	one 🗌 Fax	In Person
	Regardir Client In	ng: structions:							
17.	Additional rem	narks.							
8.	Cooler Inform	nation							
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date		Signed By	
	1	1.7	Good	Yes					

Page 1 of 1

Client	Chain-of-Custody Record		Turn-Around Time:						H	A	LL	E	NV	IF	20	NM	1EP	ITA	L	
	Rule	Engin	cering	Standard Project Name	C Rush	L diC				A			YS	SIS	5 L		30	RA	TOF	RY
Mailing	Address	501	timpet Drive	- Son Juan	127-51	into		49	01 H	awki	ns N	IE -	Alb	uque	erqu	e, N	M 87	109		
Finde 2	# 505	mingto	m KM	Project #:				Te	el. 50	5-34	5-39	975 A	F naly	ax /sis	505- Req	345- uest	4107			
email o	r Fax#:			Project Mana	ger:		=	(kļu	(ô)			1		04)		1				
QAVQC F	Package: dard		Level 4 (Full Validation)	DWa	bon		\$ (8021	(Gas o	RO MI			(SMIS)		,PO4,S(	2 PCB's					
Accredi	itation AP	C Othe	r	Sampler: DI On Ice:	a des	🗆 No		+ TPH	RONO	(18.1)	504.1)	8270	5	03,NO2	s / 8082		(A)			or N)
	(Type)			Sample Tem	perature:	1.7	王	BE	Q	0d 4	S po	10 or	etals	CI'N	cide	(A)	21			2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +#	BTEX + M	TPH 8015	TPH (Meth	EDB (Meth	PAH's (831	RCRA 8 M	Anions (F,(	8081 Pesti	8260B (VO	8270 (Sem			Air Bubble
-27-15	843	soil	sc-l	2-itozalass	Cold	-001	X		X											
-27-15	850	i	SC-2		1	-002	X		4						5					
-22-15	840		SC-3			-003	T		X											
-21-5	1020	L	SC-4	1	Ŀ	-004	T		X											
							-													
Date: 5/37/15 Date:	Time: 17/0 Time:	Relinquish	ed by: ed by:	Received by: Received by:	what	Date Time 5/97/15,170 Date 05171828	Rei	nark	s: 1	24	) ot	Cm	rcoP	hill	ip	,				

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.



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

August 11, 2015

Heather Woods

Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 860-2712 FAX

RE: CoP San Juan 27-5 #48

OrderNo.: 1508276

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/7/2015 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order: 1508276

Date Reported: 8/11/2015

CLIENT: Ru Project: Co	le Engineering LLC P San Juan 27-5 #48					Lab C	)rder:	15082	76	
Lab ID:	1508276-001				Collection D	ate: 8/6	5/2015 10	:48:00 Al	М	2.2
Client Sample ID:	SC-5				Mat	trix: M	EOH (SC	DIL)		
Analyses		Result	RL	Qual	Units	DF	Date A	nalyzed	Ba	tch ID
EPA METHOD 8015	M/D: DIESEL RANGE	ORGANICS	5					Ana	lyst:	KJH
Diesel Range Organio Surr: DNOP	cs (DRO)	ND 99.7	10 57.9-140		mg/Kg %REC	1 1	8/7/2019 8/7/2019	5 10:52:35 / 5 10:52:35 /	AM AM	20664 20664
EPA METHOD 8015	D: GASOLINE RANGE							Ana	lyst:	RAA
Gasoline Range Orga	anics (GRO)	25	3.8		mg/Kg	1	8/7/201	5 11:18:57	AM	20637
Surr: BFB		142	75.4-113	S	%REC	1	8/7/201	5 11:18:57	AM	20637
EPA METHOD 8021	B: VOLATILES							Ana	lyst:	RAA
Benzene		ND	0.038		mg/Kg	1	8/7/201	5 11:18:57	AM	20637
Toluene		1.2	0.038		mg/Kg	1	8/7/2015	5 11:18:57	AM	20637
Ethylbenzene		0.29	0.038		mg/Kg	1	8/7/201	5 11:18:57	AM	20637
Xylenes, Total		3.9	0.075		mg/Kg	1	8/7/201	5 11:18:57	AM	20637
Surr: 4-Bromofluor	obenzene	111	80-120		%REC	1	8/7/201	5 11:18:57	AM	20637
Lab ID:	1508276-002			(	Collection D	ate: 8/6	5/2015 10	:50:00 AN	М	
Client Sample ID:	SC-6				Mat	trix: M	EOH (SC	IL)		
Analyses		Result	RL	Qual	Units	DF	Date A	nalyzed	Ba	tch ID
EPA METHOD 8015	M/D: DIESEL RANGE	ORGANICS	6					Ana	lyst:	KJH
Diesel Range Organio	cs (DRO)	ND	9.8		mg/Kg	1	8/7/201	5 11:19:33 /	AM	20664
Surr: DNOP		99.8	57.9-140		%REC	1	8/7/201	5 11:19:33	AM	20664
EPA METHOD 8015	D: GASOLINE RANGE							Ana	lyst:	RAA
Gasoline Range Orga	anics (GRO)	ND	3.5		mg/Kg	1	8/7/201	5 11:43:58	AM	20637
Surr: BFB		87.7	75.4-113		%REC	1	8/7/201	5 11:43:58	AM	20637
EPA METHOD 8021	B: VOLATILES							Ana	lyst:	RAA
Benzene		ND	0.035		mg/Kg	1	8/7/201	5 11:43:58	AM	20637
Toluene		ND	0.035		mg/Kg	1	8/7/201	5 11:43:58	AM	20637
Ethylbenzene		ND	0.035		mg/Kg	1	8/7/201	5 11:43:58	AM	20637
Xylenes, Total		ND	0.071		mg/Kg	1	8/7/201	5 11:43:58	AM	20637
Surr: 4-Bromofluor	obenzene	94.4	80-120		%REC	1	8/7/201	5 11:43:58 /	AM	20637

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

Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

- 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 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- ot In Range

Qualifiers: \* Va

Lab Order: 1508276

Date Reported: 8/11/2015

				_				
CLIENT: Project:	Rule Engineering LLC CoP San Juan 27-5 #48				La	ıb C	order: 1508276	
Lab ID:	1508276-003			(	Collection Date:	8/6	5/2015 10:58:00 AM	2.45
<b>Client Sample</b>	<b>ID:</b> SC-7				Matrix:	M	EOH (SOIL)	
Analyses		Result	RL O	Qual	Units	DF	Date Analyzed B	atch ID
EPA METHOD	8015M/D: DIESEL RANGE	ORGANIC	S	a (P	1.00		Analysi	: KJH
Diesel Range	Organics (DRO)	ND	9.5		mg/Kg	1	8/7/2015 11:46:29 AM	20664
Surr: DNOF	<b>b</b>	102	57.9-140		%REC	1	8/7/2015 11:46:29 AM	20664
EPA METHOD	8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Ran	ge Organics (GRO)	ND	3.4		ma/Ka	1	8/7/2015 12:08:49 PM	20637
Surr: BFB		87.7	75.4-113		%REC	1	8/7/2015 12:08:49 PM	20637
EPA METHOD	8021B: VOLATILES						Analyst	RAA
Benzene		ND	0.034		ma/Ka	1	8/7/2015 12:08:49 PM	20637
Toluene		ND	0.034		ma/Ka	1	8/7/2015 12:08:49 PM	20637
Ethylbenzene		ND	0.034		mg/Kg	1	8/7/2015 12:08:49 PM	20637
Xylenes, Total		ND	0.067		mg/Kg	1	8/7/2015 12:08:49 PM	20637
Surr: 4-Bror	mofluorobenzene	95.0	80-120		%REC	1	8/7/2015 12:08:49 PM	20637
Lab ID:	1508276-004		167	(	Collection Date:	8/6	5/2015 12:28:00 PM	
<b>Client Sample</b>	ID: SC-8				Matrix:	М	EOH (SOIL)	
Analyses		Result	RL O	Qual	Units	DF	Date Analyzed B	atch ID
EPA METHOD	8015M/D: DIESEL RANGE	ORGANIC	6				Analyst	KJH
Diesel Range	Organics (DRO)	ND	10		mg/Kg	1	8/7/2015 12:13:24 PM	20664
Surr: DNOF	<b>,</b>	101	57.9-140		%REC	1	8/7/2015 12:13:24 PM	20664
EPA METHOD	8015D: GASOLINE RANGE						Analyst	RAA
Gasoline Rang	ge Organics (GRO)	3.4	3.3		mg/Kg	1	8/7/2015 12:33:40 PM	20637
Surr: BFB		96.9	75.4-113		%REC	1	8/7/2015 12:33:40 PM	20637
EPA METHOD	8021B: VOLATILES						Analyst	RAA
Benzene		ND	0.033		mg/Kg	1	8/7/2015 12:33:40 PM	20637
Toluene		0.064	0.033		mg/Kg	1	8/7/2015 12:33:40 PM	20637
Ethylbenzene		ND	0.033		mg/Kg	1	8/7/2015 12:33:40 PM	20637
Xylenes, Total		0.36	0.067		mg/Kg	1	8/7/2015 12:33:40 PM	20637
Surr: 4-Bror	nofluorobenzene	101	80-120		%REC	1	8/7/2015 12:33:40 PM	20637

Hall Environmental Analysis Laboratory, Inc.

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits J Page 2 of 7
- Р Sample pH Not In Range
- Reporting Detection Limit RL

Lab Order: 1508276

Date Reported: 8/11/2015

.

CLIENT: Project:	Rule Engineering LLC CoP San Juan 27-5 #4	8				Lab O	order:	15082	76	
Lab ID: Client Sample	1508276-005 e ID: SC-9			(	Collection I Ma	Date: 8/6 trix: MI	/2015 11:4 EOH (SOII	4:00 Al	М	
Analyses		Result	RL	Qual	Units	DF	Date Ana	lyzed	Ba	tch ID
EPA METHO	D 8015M/D: DIESEL RAN	GE ORGANICS	S					Ana	alyst:	KJH
Diesel Range	Organics (DRO)	66	10		mg/Kg	1	8/7/2015 1	2:40:14	РМ	20664
Surr: DNO	Р	98.2	57.9-140		%REC	1	8/7/2015 1	2:40:14	PM	20664
EPA METHO	D 8015D: GASOLINE RAN	IGE						Ana	alyst:	RAA
Gasoline Ran	nge Organics (GRO)	73	3.2		mg/Kg	1	8/7/2015 1	2:58:31	PM	20637
Surr: BFB		581	75.4-113	S	%REC	1	8/7/2015 1	2:58:31	PM	20637
EPA METHO	D 8021B: VOLATILES							Ana	alyst:	RAA
Benzene		ND	0.032		mg/Kg	1	8/7/2015 1	2:58:31	PM	20637
Toluene		0.094	0.032		mg/Kg	1	8/7/2015	2:58:31	PM	20637
Ethylbenzene	9	ND	0.032		mg/Kg	1	8/7/2015	2:58:31	PM	20637
Xylenes, Tota	al	2.1	0.063		mg/Kg	1	8/7/2015	2:58:31	PM	20637
Surr 4-Bro	mofluorobenzene	141	80-120	S	%REC	1	8/7/2015	2:58:31	PM	20637

Hall Environmental Analysis Laboratory, Inc.

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 7
- Sample pH Not In Range Р
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508276

11-Aug-15

Client:	Rule Engineering LLC	
Project:	CoP San Juan 27-5 #48	

Sample ID MB-20664 Client ID: PBS	SampTy Batch	pe: ME ID: 20	3LK 664	Tes F	tCode: El RunNo: 2	PA Method 8026	8015M/D: Di	esel Rang	e Organics	
Prep Date: 8/7/2015	Analysis Da	te: 8/	7/2015	S	SeqNo: 8	43785	Units: mg/M	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10		7.57	1.00	1.0			1.1.1	
Surr: DNOP	9.8		10.00		98.5	57.9	140	1.14	Real ?!	
Sample ID LCS-20664	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	- 11 i i i
Client ID: LCSS	Batch	ID: 20	664	F	RunNo: 2	8026				
Prep Date: 8/7/2015	Analysis Da	te: 8/	7/2015	S	SeqNo: 8	43786	Units: mg/K	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.4	57.4	139	- 20	1 1 186	127
Surr: DNOP	4.8		5.000		95.7	57.9	140			

#### 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

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1508276

11-Aug-15

.

Client: Rule Er Project: CoP Sa	ngineering LLC n Juan 27-5 #48								
Sample ID LCS-20637 Client ID: LCSS	SampType: Batch ID:	LCS 20637	Tes F	tCode: EP RunNo: 28	A Method	8015D: Gasc	line Rang	e	and the
Prep Date: 8/6/2015	Analysis Date:	8/7/2015	5	SeqNo: 84	4373	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0 25.00	0	84.9	79.6	122			
Surr: BFB	920	1000		92.2	75.4	113			1.19
Sample ID MB-20637	SampType:	MBLK	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	10
Client ID: PBS	Batch ID:	20637	F	RunNo: 28	035				
Prep Date: 8/6/2015	Analysis Date:	8/7/2015	S	SeqNo: 84	4374	Units: mg/K	g		
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0							
Surr: BFB	880	1000		87.8	75.4	113			

#### 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
- RL Reporting Detection Limit

Page 5 of 7

P Sample pH Not In Range

## Hall Environmental Analysis Laboratory, Inc.

Client: Rule Engineering LLC Project: CoP San Juan 27-5 #48

Sample ID LCS-20637 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 20637 RunNo: 28035 Units: mg/Kg Prep Date: 8/6/2015 Analysis Date: 8/7/2015 SegNo: 844420 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 0.94 0.050 1 000 0 94.4 76.6 128 Toluene 0.94 0.050 1.000 0 93.5 75 124 0.050 1.000 126 Ethylbenzene 0.90 0 90.5 79.5 Xylenes, Total 2.9 0.10 3.000 0 98.1 78.8 124 Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120 Sample ID LCS-20638 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 20638 RunNo: 28035 Prep Date: 8/6/2015 Analysis Date: 8/7/2015 SeqNo: 844421 Units: %REC SPK value SPK Ref Val %REC %RPD RPDLimit Qual Analyte Result POL LowLimit HighLimit 0.99 1.000 Surr: 4-Bromofluorobenzene 98.9 80 120 Sample ID LCS-20639 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 20639 RunNo: 28035 Prep Date: 8/6/2015 Analysis Date: 8/8/2015 SegNo: 844422 Units: %REC Result PQL SPK value SPK Ref Val %REC HighLimit %RPD RPDLimit Qual Analyte LowLimit Surr: 4-Bromofluorobenzene 0.95 1.000 95.3 80 120 Sample ID MB-20637 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 20637 RunNo: 28035 Prep Date: 8/6/2015 Analysis Date: 8/7/2015 SeqNo: 844423 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 0.050 Benzene Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.97 1.000 96.6 80 120 TestCode: EPA Method 8021B: Volatiles Sample ID MB-20638 SampType: MBLK Client ID: PBS Batch ID: 20638 RunNo: 28035 Prep Date: 8/6/2015 Analysis Date: 8/7/2015 SeqNo: 844424 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 0.95 1.000 94.8 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

WO#: 1508276

11-Aug-15

Page 6 of 7

QC SU Hall Ei	WO#:	1508276 11-Aug-15			
Client: Project:	Rule Er CoP Sa	ngineering LLC n Juan 27-5 #48			
Sample ID	MB-20639	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles		Teller -
Client ID:					

SPK value SPK Ref Val %REC LowLimit

SeqNo: 844425

93.0

Analysis Date: 8/8/2015

PQL

1.000

Result

0.93

Units: %REC

120

HighLimit

80

**RPDLimit** 

Qual

%RPD

X manuer of	Q	ua	li	fi	e	rs	;
-------------	---	----	----	----	---	----	---

Prep Date: 8/6/2015

Surr: 4-Bromofluorobenzene

Analyte

- \* 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

Page 7 of 7

.

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 N	umber: 1508276		RoptNo: 1						
Received by/date: AQ 08 07	15								
Logged By: Ashley Gallegos 8/7/2015 8:00:0	0 AM	A							
Completed By Astriev Gallegos 8/7/2015 8:52:4	7 AM	A							
Reviewed By: 05 08/07/15	24.0	240							
Chain of Custody			1.7.8						
1. Custody seals intact on sample bottles?	Yes 🗆	No 🗆	Not Present						
2. Is Chain of Custody complete?	Yes M	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 botile labels?	Yes M	No 🗌	for pH: (<2 or >12 unless n						
13 Are matrices correctly identified on Chain of Custody?	Yes V	No 🗆	Adjusted?						
14. Is it clear what analyses were requested?	Yes 🔽	No 🗌	A A PERSON DAY						
15. Wore all holding times able to be met?	Yes 🕅	No 🗆	Checked by:						
(If no, notify customer for authorization.)									
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 E Fax	In Person						
Regarding	and the second second second second								
Client Instructions:									
17. Additional remarks:									
18. Cooler Information									
Cooler No Temp °C Condition Seal Intact Seal	No Seal Date	Signed By							
1 2.7 Good Yes	And the second		1.1.12						

C Client:	hain. Rule	Engine Fmt,	Istody Record	Turn-Around Standard Project Name CoP So Project #:	Time: <u>X Rush</u> :: 2 <u>n Juan</u>	<u>Sameday</u> 27-5 #46		49 Te	01 H	H A awkin	IA N www ns N 5-39	LL AL v.hal NE - 975	El YS lenv Alb	NV SIS ironr uque Fax	TF 5 L ment erqu 505-	20 AE tal.co e, Ni -345-	<b>NP</b> 30 7m M 87 4107	1EI RA 109	NT.	AL	,
A/QC F	F: Fax#: Package: dard		Level 4 (Full Validation)	Project Mana Heasille	ger. 27 Woo	Øs	B's (8021)	H (Gas only)	DRO HABO			(SIMS)	siary	2,PO4,SO4)	82 PCB's	UCS					
	AP (Type)	C Othe	er	Sampler: On Ice: Sample Tem	YYes perature: A	□ No 1	BE + TM	BE + TPI	(GRO/I	d 418.1)	d 504.1)	) or 8270	tals	I,NO3,NC	des / 80	1	(VOV)				(Y or N)
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + NE	BTEX + MTI	TPH 8015B	TPH (Metho	EDB (Metho	PAH's (8310	RCRA 8 Me	Anions (F,C	8081 Pestic	8260B (VO/	8270 (Semi-				Air Bubbles
nons	1048	Sal	SC-5	4 czalasy Mech	Non/most	-001	X		X												
16/15	1050	Soil	50-6	(	1	-002	X		X												
16115	1058	Soil	SC-7			-003	X		X												
16/15	1228	Soil	SC-8		he h	-004	X		X				. di								
MAIS	1144	Sal	<u>sc-9</u>	4	*	-005	x		×												
Date:	Time:	Relinquish	ied by:	Received by:	4 1.4	Date Time	Rer	nark	s: T	Sire	ct	bi	11 3	PO	Co	NOC	2	Pro	ject	lead	:
Date 2/4/15	Z/10	Relinquist	not by:	- Mustu beb 7%/15 Z107 Réceived by: 08/07/15 Time Amallego 0800			1		WI AC	0-2 11 11 11	20	K (D	90 21	10	24		Reg	1021	ed b Hu	Sm Zinter	ith -

If necessary samples submitted to Hali Environmental may be subcontracted to be accredited to be recorredited to be recorredite



August 17, 2015

Lisa Hunter Conoco Phillips Farmington 3401 E 30th St Farmington, NM 87402 TEL: FAX

RE: San Juan 27- 5 #48

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

OrderNo.: 1508670

Dear Lisa Hunter:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/14/2015 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1508670 Date Reported: 8/17/2015

8/14/2015 10:45:42 AM R28204

CLIENT: Project:	Conoco Phillips Farmington San Juan 27- 5 #48	Client Sample ID: San Juan 27-5 #48 Collection Date: 8/13/2015 10:45:00 AM											
Lab ID:	1508670-001	Matrix:	SOIL		Received	Date: 8/1	4/2015 7:00:00 AM						
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch					
EPA MET	HOD 8015D MOD: GASOLINE	RANGE				1.2.5	Analyst	DJF					
Gasoline	Range Organics (GRO)	ND	3.2		mg/Kg	1	8/14/2015 10:45:42 AM	R28204					
Surr: B	FB	99.6	70-130		%REC	1	8/14/2015 10:45:42 AM	R28204					
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANIC	s				Analyst:	КЈН					
Diesel Ra	ange Organics (DRO)	ND	9.5		mg/Kg	1	8/14/2015 10:09:50 AM	20793					
Surr: D	NOP	99.1	57.9-140		%REC	1	8/14/2015 10:09:50 AM	20793					
EPA MET	HOD 8260B: VOLATILES SHO	RT LIST					Analyst:	DJF					
Benzene		ND	0.032		mg/Kg	1	8/14/2015 10:45:42 AM	R28204					
Toluene		ND	0.032		mg/Kg	1	8/14/2015 10:45:42 AM	R28204					
Ethylbenz	zene	ND	0.032		mg/Kg	1	8/14/2015 10:45:42 AM	R28204					
Xylenes,	Total	ND	0.064		mg/Kg	1	8/14/2015 10:45:42 AM	R28204					
Surr: 1	,2-Dichloroethane-d4	105	70-130		%REC	1	8/14/2015 10:45:42 AM	R28204					
Surr: 4	-Bromofluorobenzene	105	70-130		%REC	1	8/14/2015 10:45:42 AM	R28204					
Surr: D	Dibromofluoromethane	119	70-130		%REC	1	8/14/2015 10:45:42 AM	R28204					

70-130

%REC

95.1

# Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

\*

Surr: Toluene-d8

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- в Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 1 of 4 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL

Hall	Environmental	Analysis	Laboratory, I	nc.

WO#: 1508670

17-Aug-15

Client: Project:	Conoco Pl San Juan 2	hillips Fa 27- 5 #48	rmingto	'n					÷	Mati	
Sample ID	MB-20793	SampT	Type: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	h ID: 20	793	F	RunNo: 2	8190				
Prep Date:	8/14/2015	Analysis D	Date: 8/	14/2015	5	SeqNo: 8	49641	Units: mg/H	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	ND	10						The second		
Surr: DNOP		11		10.00		105	57.9	140	1.20	4.1 10	
Sample ID	LCS-20793	SampT	Type: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	h ID: 20	793	F	RunNo: 2	8190				
Prep Date:	8/14/2015	Analysis D	Date: 8/	14/2015	S	SeqNo: 8	49645	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	48	10	50.00	0	96.5	57.4	139		144	1. 2. 1
Surr: DNOP		5.0		5.000	11. 6 -	99.3	57.9	140		and the second	1.1
Sample ID	1508670-001AMS	SampT	ype: MS	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	in the second
Client ID:	San Juan 27-5 #48	Batch	h ID: 20	793	F	RunNo: 2	8190				
Prep Date:	8/14/2015	Analysis D	Date: 8/	14/2015	S	SeqNo: 8	50239	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	50	10	50.30	0	98.4	42.3	146			
Surr: DNOP		5.0		5.030		99.4	57.9	140			1.00
Sample ID	1508670-001AMSD	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	and the
Client ID:	San Juan 27-5 #48	San Juan 27-5 #48 Batch ID: 20793			F	RunNo: 2	8190				
Prep Date:	8/14/2015	14/2015	SeqNo: 850240 Units: mg/Kg								
Analyte	10 10 10 10	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	48	9.8	48.97	0	97.7	42.3	146	3.44	28.9	
Surr: DNOP		4.9		4.897		99.7	57.9	140	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

Page 2 of 4

## Hall Environmental Analysis Laboratory, Inc.

Client: Conoco Phillips Farmington

Project: San Juan 27- 5 #48

Sample ID rb	Samp	Гуре: МІ	BLK	TestCode: EPA Method 8260B: Volatiles Short List											
Client ID: PBS	Batc	h ID: R2	28204	F	RunNo: 28204										
Prep Date:	Analysis [	Analysis Date: 8/14/2015			SeqNo: 8	52314	Units: mg/k	٢g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	ND	0.050								1.5					
Toluene	ND	0.050													
Ethylbenzene	ND	0.050													
Kylenes, Total	ND	0.10													
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.8	70	130								
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130								
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130								
Surr: Toluene-d8	0.49		0.5000		98.6	70	130		_	15					
Sample ID 100ng Ics	SampT	Type: LC	s	Tes	stCode: EPA Method 8260B: Volatiles Short List										
Client ID: LCSS	Batch	h ID: R2	8204	F	RunNo: 2	8204									
Prep Date:	Analysis E	Date: 8/	14/2015	S	SeqNo: 8	52315	Units: mg/k	٢g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	1.0	0.050	1.000	0	104	70	130								
Toluene	1.0	0.050	1.000	0	100	70	130								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.1	70	130								
Surr: 4-Bromofluorobenzene	0.52		0.5000		104	70	130								
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130								
Sur: Toluene.d8	0.47		0 5000		04 3	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
- 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

Page 3 of 4

WO#: 1508670

17-Aug-15

WO#: 1508670

17-Aug-15

Hall	Envi	ronmental	Ana	vsis	Lab	orat	tory.	Inc.
							17	

Client: Project:	Conoco P San Juan 2	hillips Fa 27- 5 #48	rmingto	'n							
Sample ID	rb1	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	PBS	Batch	h ID: R2	8204	F	RunNo: 2	8204				
Prep Date:		Analysis D	Date: 8/	15/2015	5	SeqNo: 8	52409	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0							1.54	1- C-1
Surr: BFB		490		500.0		98.5	70	130	100	1. A. W.	
Sample ID	2.5ug gro lcs	SampT	Type: LC	s	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	1-2-C
Client ID:	LCSS	Batch	h ID: R2	8204	F	RunNo: 2	8204				
Prep Date:		Analysis D	Date: 8/	14/2015	5	SeqNo: 8	52410	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Rang	e Organics (GRO)	25	5.0	25.00	0	102	70	123			a tille
Surr: BFB		490		500.0		97.6	70	130			
Sample ID	1508670-001ams	SampT	ype: MS	S	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID:	San Juan 27-5 #48	Batch	h ID: R2	8204	F	RunNo: 28204					
Prep Date:		Analysis D	)ate: 8/	14/2015	5	SeqNo: 8	52411	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Rang	e Organics (GRO)	16	3.2	15.98	0	101	54.9	131	14.00	10.403	a part of
Surr: BFB		320		319.7		99.6	70	130			
Sample ID	1508670-001amsd	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: San Juan 27-5 #48 Batch ID: R28204			F	RunNo: 2	8204						
Prep Date:		Analysis D	Date: 8/	14/2015	5	SeqNo: 8	52412	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	17	3.2	15.98	0	106	54.9	131	4.86	20	
Surr: BFB		340		319.7		106	70	130	0	0	

#### Qualifiers:

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

Page 4 of 4

Client Name:       Conco Phillips Farmingt       Work Order Number: 1508670       ReptNo: 1         Received by/date:       A       B.1/4/LS       Logged By:       Anne Thome       B/14/2015 7:00:00 AM       Anne Thome         Completed By:       Anne Thome       B/14/2015 7:00:00 AM       Anne Thome       B/14/2015         Reviewed By:       A       B/14/2015       Cm       Anne         Chain of Custody       B/14/2015       Yes       No       Not Present       Mode         1. Custody seals intact on sample bottles?       Yes       No       Not Present       Mode         2. Is Chain of Custody complete?       Yes       No       NA       No       Not Present       Mode         3. How was the sample delivered?       Courtier       Courtier       No       NA       No       NA       State         5. Were all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA       State       State </th <th>ENVIRONMENTAL ANALYSIS LABORATORY</th> <th>Alba TEL: 505-345-3975 Website: www.ha</th> <th>4901 Hawkin querque, NM &amp; FAX: 505-345- llenvironmenta</th> <th>ns NE 37109 Sam 4107 1.com</th> <th>ple Log-In Check List</th>	ENVIRONMENTAL ANALYSIS LABORATORY	Alba TEL: 505-345-3975 Website: www.ha	4901 Hawkin querque, NM & FAX: 505-345- llenvironmenta	ns NE 37109 Sam 4107 1.com	ple Log-In Check List
Received by/date:       Age:       Ag	Client Name: Conoco Phillips Farmingt	Work Order Number:	1508670		RoptNo: 1
Logged By:       Anne Thome       8/14/2015 7:00:00 AM       Gree June         Completed By:       Anne Thome       8/14/2015       Gree June         Reviewed By:       June       June       June         2hain of Custody       Signal       Signal       June         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?       Courtier         Log In        Counter       No       NA         4. Was an attempt made to cool the samples?       Yes       No       NA       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       NA          7. Sufficient sample volume for indicated test(s)?       Yes       No       NA          8. Are samples (except VOA and ONG) property preserved?       Yes       No       NA          10. VOA visits have zaro headspace?       Yes       No       Ma          11. Were any sample containers received broken?       Yes       No       Adjusted?	Received by/date: AG 08/14/1	15			A CONTRACTOR
Completed By:       Anne Thoma       BY14/2015       Anne Thoma         Reviewed By:       Anne Thoma       BY14/2015       Anne Thoma         Chain of Custody       Anne Thoma       BY14/2015       Anne Thoma         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?       Courtiar         Log In        Courtiar         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       NA         7. Sufficient sample volume for indicated test(s)?       Yes       No       NA         8. Are samples (except VOA and ONG) property preserved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA       Interved         10. VOA viais have zaro headspace?       Yes       No       Mo       Adjusted?         13. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?       Adjusted?         13. Are matrices	Logged By: Anne Thome	8/14/2015 7:00:00 AM		ame Am	_
Reviewed By:	Completed By: Anne Thorne	8/14/2015		Don Man	_
the fine of Custody       Yes       No       Not Present         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         .cog In	Reviewed By:	8/14/15			
1. Custody seals Intex on sample bottles?       Yes       No       Not Present       Mo         2. Is Chain of Custody complete?       Yes       No       Not Present       Mo         3. How was the sample delivered?       Courrier         .cog /n       A. 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         3. Sample(s) in proper container(s)?       Yes       No       NA         7. Sufficient sample volume for indicated test(s)?       Yes       No       NA         8. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA         0. VOA viais have zero headspace?       Yes       No       No       VA         1. Were any sample containers received broken?       Yes       No       Mo       Mo UAVIals       Ø         2. Does paperwork match bottle labels?       Yes       No       In OVA Vials       Ø       Adjusted?	hain of Custody				
2. Is Chain of Custody complete?       Yes       No       Not Present         3. How was the sample delivered?       Courtier         .cor In	1. Custody seals intact on sample bottles?		Yes	No 🗆	Not Present
3. How was the sample delivered? Courier   4. Was an attempt made to cool the samples? Yes   4. Was an attempt made to cool the samples? Yes   5. Were all samples received at a temperature of >0° C to 6.0°C Yes   6. Sample(s) in proper container(s)? Yes   7. Sufficient sample volume for indicated test(s)? Yes   8. Are samples (except VOA and ONG) properly preserved? Yes   9. Was preservative added to bottles? Yes   0. VOA viais have zero headspace? Yes   1. Were any sample containers received broken? Yes   2. Does paperwork match bottle labels? Yes   No Prime   2. Does paperwork match bottle labels? Yes   No Checked   7. Kutter analyses were requested? Yes   2. Does paperwork match bottle labels? Yes   (No claseropancies on chain of custody) Yes   3. Are matrices correctly identified on Chain of Custody?   4. Is it clear what analyses were requested?   Yes No   Checked by:   (If no, notify customer for authorization.)    Person Notified:   Person Notified:   Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified:  Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified: Person Notified:	2. Is Chain of Custody complete?		Yes 🗹	No 🗆	Not Present
4. Was an attempt made to cool the samples?       Yes       No       NA         5. Ware all samples received at a temperature of >0° C to 6.0°C       Yes       No       NA         5. Sample(s) In proper container(s)?       Yes       No       NA         6. Sample(s) In proper container(s)?       Yes       No       NA         7. Sufficient sample volume for indicated test(s)?       Yes       No       NA         8. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA         1. Were any sample containers received broken?       Yes       No       Wo         2. Does papenvork match bottle tabels?       Yes       No       Wo         4. Is ticker what analyses were requested?       Yes       No       If of preserved hocked for pH:         (<2 or >12 u       Adjusted?       Yes       No       Checked by:       If of pH:         (# of preserved       No       If adjusted?       Yes       No       Checked by:       If of pH:         (# of preserved       Is clear what analyses were requested?       Yes       No       Checked by:       If of pH:	3. How was the sample delivered?		Courier		
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         5. Sample(s) in proper container(s)?       Yes       No       NA         7. Sufficient sample volume for indicated test(s)?       Yes       No       NA         8. Are samples (except VOA and ONG) properly preserved?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA         9. Was preservative added to bottles?       Yes       No       NA         0. VOA vials have zero headspace?       Yes       No       Ma         1. Were any sample containers received broken?       Yes       No       If of preserved bottles checked for pH:         (Note discrepancies on chain of custody?       Yes       No       Idjusted?         2. Does paperwork match bottle labels?       Yes       No       Idjusted?         (Not discrepancies on chain of custody?       Yes       No       Idjusted?         3. Are matrices correctly identified on Chain of Custody?       Yes       No       Idjusted?         5. Were all holding times able to be met?       Yes       No       Idjusted?         6. Were all holding times able to be met?       Yes	.og In				
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No No NA Yes No NA NA Yes No NA Yes No NA Yes No NA NA NA Xestimation NA	<ol><li>Was an attempt made to cool the samples?</li></ol>		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) property preserved? Yes No   9. Was preservative added to bottles? Yes No   0. VOA vials have zero headspace? Yes No   1. Were any sample containers received broken? Yes No   2. Does paperwork match bottle labels? Yes No   (Not discrepancies on chain of custody) 3. Are matrices correctly identified on Chain of Custody? Yes   3. Are matrices correctly identified on Chain of Custody? Yes No   4. Is it clear what analyses were requested? Yes No   5. Were all holding times able to be met? Yes No   (if no, notify customer for authorization.) Date Checked by:   Person Notified:   Decial Handling (If applicable)    6. Was client notified of all discrepancies with this order? Yes   Yes No NA   Person Notified:   Date Date   By Whom: Via:   Regarding: Client Instructions:   Client Instructions: No	5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆
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         9. Was preservative added to bottles?       Yes       No       NA         0. VOA vials have zero headspace?       Yes       No       No       NA         1. Were any sample containers received broken?       Yes       No       Ø       NA         2. Does paperwork match bottle labels?       Yes       No       Ø       If of preserved bottles checked for pH:         (Note discrepancies on chain of custody)       3. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         4. Is it clear what analyses were requested?       Yes       No       Checked by:       Checked by:         5. Were all holding times able to be met?       Yes       No       NA       Person Notified:         By Whom:       Date       Date       In Person       In Person         Regarding:       Cient Instructions:       Via:       eMail       Phone       Fax       In Person         7. Additional remarks:       Via:       eMail       Phone       Fax       In Person       In Person <td>3. Sample(s) in proper container(s)?</td> <td></td> <td>Yes 🗹</td> <td>No 🗆</td> <td></td>	3. Sample(s) in proper container(s)?		Yes 🗹	No 🗆	
8. Are samples (except VOA and ONG) properly preserved? Yes No   9. Was preservative added to bottles? Yes No   9. Was preservative added to bottles? Yes No   0. VOA vials have zero headspace? Yes No   1. Were any sample containers received broken? Yes No   2. Does paperwork match bottle labels? Yes No   (Note discrepancies on chain of custody) Yes No   3. Are matrices correctly identified on Chain of Custody? Yes No   4. Is it clear what analyses were requested? Yes No   5. Were all holding times able to be met? Yes No   (If no, notify customer for authorization.) Date	7. Sufficient sample volume for indicated test(s	)?	Yes 🗹	No 🗆	
9. Was preservative added to bottles? Yes No NA   0. VOA vials have zero headspace? Yes No No VOA Vials   1. Were any sample containers received broken? Yes No # of preserved bottles checked for pht:   2. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pht:   2. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pht:   2. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pht:   (Note discrepancies on chain of custody) 3. Are matrices correctly identified on Chain of Custody? Yes No   3. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?   4. Is it clear what analyses were requested? Yes No Checked by:   5. Were all holding times able to be met? Yes No No   (If no, notify customer for authorization.) Yes No NA   B. Was client notified of all discrepancies with this order? Yes No No NA Person Notified: By Whom: Regarding: Client Instructions: 7. Additional remarks:	8. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🗹	No 🗆	
0. VOA viais have zero headspace?       Yes       No       No VOA Viais         1. Were any sample containers received broken?       Yes       No       # of preserved bottles checked for pH:         2. Does paperwork match bottle labels?       Yes       No       # of preserved bottles checked for pH:         (Note discrepancies on chain of custody)       3. Are matrices correctly identified on Chain of Custody?       Yes       No       Adjusted?         4. Is it clear what analyses were requested?       Yes       No       Checked by:       Checked by:         5. Were all holding times able to be met?       Yes       No       No       Na       Merein this order?         9. Was client notified of all discrepancies with this order?       Yes       No       NA       Merein         9. Whom:	9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗋
1. Were any sample containers received broken? Yes No # of preserved bottles checked for pH:   2. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH:   (Note discrepancies on chain of custody) 3. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?   3. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? Adjusted?   4. Is it clear what analyses were requested? Yes No Checked by: Checked by:   5. Ware all holding times able to be met? Yes No Checked by: Checked by:   (If no, notify customer for authorization.) Yes No NA <b>Decial Handling (If applicable)</b> 6. Was client notified of all discrepancies with this order? Yes No No No NA Person Notified: By Whom: Regarding: Client Instructions: 7. Additional remarks:	0.VOA viais have zero headspace?		Yes	No 🗆	No VOA Vials
2. Does paperwork match bottle labels? Yes I No   2. Does paperwork match bottle labels? Yes I No   (Note discrepancies on chain of custody) Yes I No   3. Are matrices correctly identified on Chain of Custody? Yes I No   4. Is it clear what analyses were requested? Yes I No   5. Were all holding times able to be met? Yes I No   (If no, notify customer for authorization.) Yes I No	1. Were any sample containers received broke	n?	Yes	No 🗹	# of preserved
(Note discrepancies on chain of custody)   3. Are matrices correctly identified on Chain of Custody?   Yes   Mo   4. Is it clear what analyses were requested?   Yes   Yes   No   Checked by:      Checked by:         6. Was client notified of all discrepancies with this order?   Yes   No   Na   <	2 Does naneowork match hottle labels?		Ves V	No 🗖	bottles checked for pH:
3. Are matrices correctly identified on Chain of Custody? Yes No Adjusted?   4. Is it clear what analyses were requested? Yes No Checked by:   5. Were all holding times able to be met? Yes No Checked by:   6. Was client notified of all discrepancies with this order? Yes No NA   Person Notified: Date Image: Client Instructions: Image: Client Instructions:	(Note discrepancies on chain of custody)				(<2 or >12 unless note
4, Is it clear what analyses were requested? Yes V No   5. Were all holding times able to be met? Yes V No   Checked by:	3. Are matrices correctly Identified on Chain of	Custody?	Yes	No 🗆	Adjusted?
5. Were all holding times able to be met?       Yes ⊻       No □       Criecked by	4. Is it clear what analyses were requested?		Yes 🗹	No L	Charlend by:
Decial Handling (if applicable)         6. Was client notified of all discrepancies with this order?         Person Notified:         By Whom:         Regarding:         Client Instructions:	<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes M	No L	Checked by
6. Was client notified of all discrepancies with this order? Yes No No NA Person Notified: By Whom: Regarding: Client Instructions: 7. Additional remarks:	pecial Handling (if applicable)				
Person Notified: Date Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 7. Additional remarks:	6. Was client notified of all discrepancies with t	his order?	Yes	No 🗆	NA 🗹
By Whom:     Via:     eMail     Phone     Fax     In Person       Regarding:	Person Notified:	Date			
Regarding:       Client Instructions:   7. Additional remarks:	By Whom:	Via:	] eMail 🔲 l	Phone 🗌 Fax	in Person
Client Instructions: 7. Additional remarks:	Regarding:				a sa a la ja condita ando danto.
7. Additional remarks:	Client Instructions:				
	7. Additional remarks:				
5. Cooler Information	8. Cooler Information		and Data	Clanied Dr. 1	
1 3.0 Good Yes	1 30 Good Ver	al intact Seal No S	eal Date	Signed By	

Chain-of-Custody Record Client: Councer Hullips. Mailing Address: Po Box 4089 Parminotan NM 87499			Turn-Around Time: Standard K Rush Same Day Project Name: San Juan 27-5 #48 Project #:				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107											L XY		
Phone	#: 50	5-25	8-1607									A	naly	ysis	Req	ues	t 			
email o QA/QC I X Stan	r Fax#: Package: idard	1150-1	Level 4 (Full Validation)	Project Manager: Lisattunter			s (8021)	(Gas only	ROMRQ	AMA		(SMIS)		,PO4,SO4)	2 PCB's					
Accreditation           Image: NELAP         Image: Other			Sampler /	a Hunt	er D No		HdT +	01D	18.1)	04.1)	8270		03,NO2	1 808		(A)			or N)	
Date	Time	Matrix	Sample Request ID	Sample Tem Container Type and #	Preservative Type	0 HEAL NO. 1508670	BTEX ) MTBE	BTEX + MTBE	TPH 8015B GF	TPH (Method 4	EDB (Method 5	PAH's (8310 or	<b>RCRA 8 Metals</b>	Anions (F,CI,NC	8081 Pesticides	8260B (VOA)	8270 (Semi-VO			Air Bubbles (Y o
1/12/16	Inder	soil	504 Jun 075 #10	40- Tox-1	1.04	-01	X		X										-	
	IDIDO	in	CAN WAR TO TO	IVAJAY-1	Cola		F				1									
																			1	
					. •					_								-		
																-		_	-	$\square$
																		-	+	$\square$
Date:	Time:	Relinquist	ieli by:	Received by:	Kab	Date Time	Rei	nark	s: .	BE	N:	AL	Ē							Ħ
Date:	Time: ZOID	Relinquist	hed by: dui flish	Received by:	Walt	Date Time 8/13/15 2011	W.C. # 20793204													

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 analytic