

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

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 ☒ Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya	
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837	
Facility Name: Richardson 9E	Facility Type: Gas Well	
Surface Owner BLM	Mineral Owner BLM (SF-077651)	API No. 30-045-24147


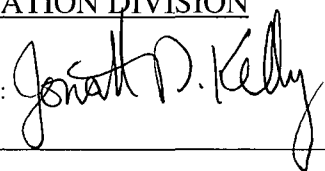
LOCATION OF RELEASE

Unit Letter L	Section 15	Township 31N	Range 12W	Feet from the 1755	North/South Line South	Feet from the 815	East/West Line West	County San Juan
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Latitude **36.89616** Longitude **108.08908**

NATURE OF RELEASE

Type of Release Produced Fluids	Volume of Release Unknown	Volume Recovered None
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery November 13, 2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? RCVD FEB 22 '13	
By Whom?	Date and Hour OIL CONS DIV	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. DIST. 3	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Below Grade Tank Re-set Activities		
Describe Area Affected and Cleanup Action Taken.* The below grade tank for the subject well was removed for a re-set and historic contamination was discovered. An area excavated was 12' x 12' x 8' and 24 cubic yards of soil was transported to a third party landfarm. Excavation and confirmation sampling occurred. Sandstone was encountered on the base and permission to treat with Potation Permangante was received from BLM (Mark Kelly) & OCD (Brandon Powell) on 11/16/2012. Analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya		Approved by Environmental Specialist: 	
Title: Field Environmental Specialist		Approval Date: 2/27/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/19/2013 Phone: (505) 326-9837			

* Attach Additional Sheets If Necessary

NSK130584/815

23



Contaminated Cleanup

Located at:

Richardson 9E

11/16/2012

Prepared for:

ConocoPhillips

Crystal Tafoya

Prepared by:

Nelson Revegetation LLC

Brad Griffith



November 16, 2012

Crystal Tafoya

ConocoPhillips

Dear Crystal,

Attached you will find a detailed description of work performed on the:

Richardson 9E,

API # 3004524147

If you need any further information or have any questions, please do not hesitate to call.
(505)419-3333

Respectfully submitted,

Brad Griffith



Site Assessment:

On November 23, 2012 Nelson Revegetation arrived at the Richardson 9E. On location a Below Ground Tank (BGT) had been removed and visible staining was noticed on the floor of the excavation. The size of the pit at this time was 6'x6'x6' deep.

Actions Performed:

Nov. 13th.

Using a hydrovac truck visually contaminated soil was removed and hauled to the IEI Landfarm. A total of 12yds was hauled off. Sandstone was reached on the floor of the excavation so digging deeper is no longer an option. A historical release is found under the liner at 6' deep containing dark grey/black stained sandstone and soil. Size of the excavation is 8'x8'x8' deep.

Nov. 14th.

Using a hydrovac truck the visually contaminated soil from the walls were removed and hauled to the IEI Landfarm. A total of 24yds was hauled off. Size of the excavation is 12'x12'x8' deep.

Nov. 15th.

Two composite samples from the excavation are taken to Hall Environmental, one wall composite above the liner and one composite sample from the historical release below the liner.

Nov. 16th.

Potassium Permanganate is sprayed on the sandstone throughout the excavation. A total of 46 gallons with a ratio mix of 33% of 0.1N is used.

**Conclusion:**

After performing the cleanup and spraying of Potassium Permanganate no further action is recommended. The sample results taken above the liner shows ND. The sample results from below the liner are 770ppm DRO and 470ppm GRO and have been saturated with the Potassium Permanganate and the visually contaminated soft soil has been removed.



Disclaimer:

All New Mexico Oil Conservation Division standards have been met and are in compliance by any work and services provided by Nelson Revegetation. The observations and determinations made by Nelson Revegetation are conclusions directly related to data collected on-site at that current time. Obviously circumstances can change and therefore no warranties are made to the accuracy of the data after the time of the assessment. There are many choices to perform this service and we thank you for using Nelson Revegetation.



Nelson Revegetation On-Site Form

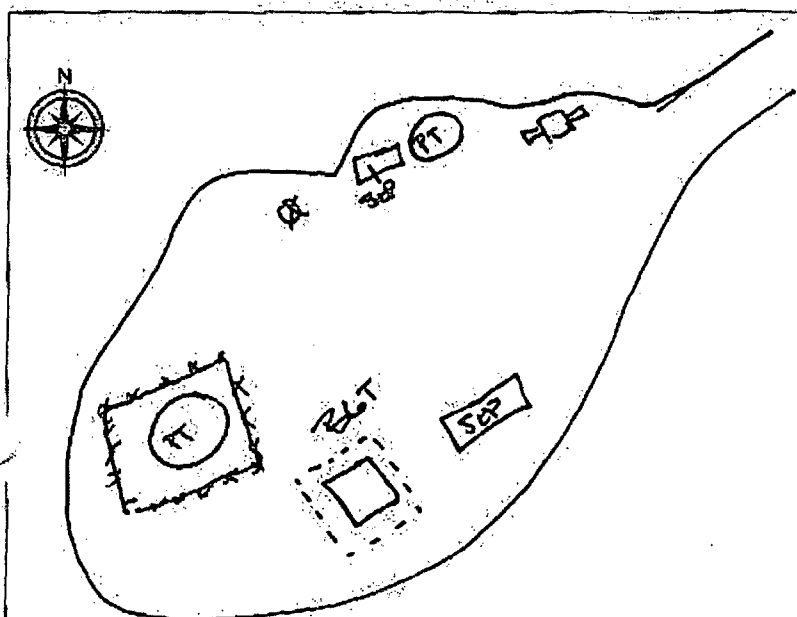
Well Name RICHARDSON # 9E API# 3004524147

Section 15 Township 31N Range 12W County SAN JUAN

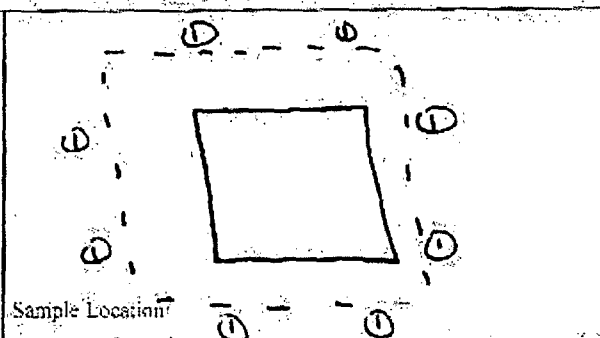
Spill Amount _____ bbls Spilled (Oil / Produced Water / Other _____)

Land Use (Grazing / Residential / Tribe _____) Excavation 12 x 12 x 8 Deep

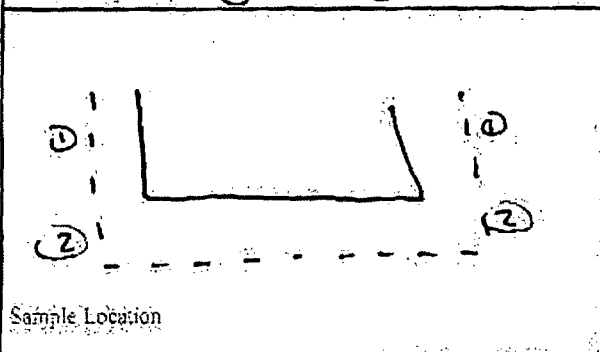
Site Ranking _____ NMOCD TPH Closure Standard _____



Sample Location



Sample Location



Sample Location

Comments TANK HAS BEEN REMOVED. HIT SANDSTONE 2-3' DOWN. HISTORICAL CONTAMINATION FOUND UNDER LINER.

		Method 118.1				VOC	Lab Analysis
Time	Sample #	Description	Wt	Reading	Dilution		
0815	1	WELL ABOVE LINER		LIGHT BROWN SAND		40	8015, 8021, C12.
0819	2	WELL BELOW LINER		DRK GREY/BLACK LHM		1580	8015, 8021, C12.

Name FRAN GRIFFIN

Sign BLG/HY

Date 6/15 Time On-Site 0745 Time Off-Site 0840 Page 1 of 1



Report Summary

Client: ConocoPhillips

Chain of Custody Number: 14641

Samples Received: 11-08-12

Job Number: 96052-1706

Sample Number(s): 63633

Project Name/Location: Richardson 9E

Entire Report Reviewed By:

Dana Zappin

Date: 11-16-12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Richardson 9E	Date Reported:	11-09-12
Laboratory Number:	63633	Date Sampled:	11-08-12
Chain of Custody No:	14641	Date Received:	11-08-12
Sample Matrix:	Soil	Date Extracted:	11-09-12
Preservative:	Cool	Date Analyzed:	11-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	87.4	0.2
Diesel Range (C10 - C28)	208	0.1
Total Petroleum Hydrocarbons	296	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Richardson 9E**



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	1109TCAL QA/QC	Date Reported:	11-09-12
Laboratory Number:	63636	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-09-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	11-09-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	11-09-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.7	0.7	0.0%	0 - 30%
Diesel Range C10 - C28	1,720	1,720	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.7	250	292	116%	75 - 125%
Diesel Range C10 - C28	1,720	250	2,460	125%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Was
 SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 63632-63636



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Richardson 9E	Date Reported:	11-09-12
Laboratory Number:	63633	Date Sampled:	11-08-12
Chain of Custody:	14641	Date Received:	11-08-12
Sample Matrix:	Soil	Date Analyzed:	11-09-12
Preservative:	Cool	Date Extracted:	11-09-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	500

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	100.0
Toluene	ND	100.0
Ethylbenzene	438	100.0
p,m-Xylene	3,730	100.0
o-Xylene	227	100.0
Total BTEX	4,400	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	83.6 %
	1,4-difluorobenzene	87.3 %
	Bromochlorobenzene	95.5 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Richardson 9E



**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	1109BCAL QA/QC	Date Reported:	11-09-12
Laboratory Number:	63636	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-09-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
	Accept: Range 0-15%				
Benzene	8.1317E-05	8.1798E-05	0.006	ND	0.2
Toluene	7.5444E-05	7.4970E-05	0.006	ND	0.2
Ethylbenzene	8.1551E-05	8.1481E-05	0.001	ND	0.2
p,m-Xylene	6.7338E-05	6.7338E-05	0.000	ND	0.2
o-Xylene	8.5510E-05	8.4472E-05	0.012	ND	0.2

Duplicate Conc: (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	14.5	15.1	0.04	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	ND	ND	0.00	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

Spike Conc: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2240	89.6	39 - 150
Toluene	14.5	2500	2210	87.9	46 - 148
Ethylbenzene	ND	2500	2240	89.6	32 - 160
p,m-Xylene	ND	5000	4280	85.6	46 - 148
o-Xylene	ND	2500	2170	86.8	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 63632-63633 and 63636



Chloride

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Richardson 9E	Date Reported:	11-16-12
Lab ID#:	63633	Date Sampled:	11-08-12
Sample Matrix:	Soil	Date Received:	11-08-12
Preservative:	Cool	Date Analyzed:	11-16-12
Condition:	Intact	Chain of Custody:	14641

Parameter	Concentration (mg/Kg)
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Total Chloride

373

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Richardson 9E**

CHAIN OF CUSTODY RECORD

14641

Client: CONOCO PHILLIPS			Project Name / Location: RICHARDSON 9E			ANALYSIS / PARAMETERS													
Email results to: CRYSTAL.TAFOYA@CONOCOPHILLIPS.COM			Sampler Name: SHAWN FINCHER			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-326-9837			Client No.: 96052-1706																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl ₂	HCl													
RICHARDSON 9E	11-8-12	10:30AM	63633	1-4oz. Jar			✓	✓							✓			Y	Y
			P211016-DIR																
Relinquished by: (Signature) <i>Shawn Fincher</i>					Date 11/8/12	Time 11:25 AM	Received by: (Signature) <i>[Signature]</i>										Date 11/8/12	Time 11:25 AM	
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix: Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area. AM02360988 GARRECD																			



5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

Analytical Report

Lab Order: 1211697

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Conoco Phillips
 Project: Richardson #9E
 Lab ID: 1211697-001A

Client Sample ID: Walls Above Liner
 Collection Date: 11/15/2012 8:15:00 AM
 Matrix: MeOH (Soil)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/16/2012 11:24:17 AM
Surr: DNOP	86.8	77.6-140		%REC	1	11/16/2012 11:24:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/16/2012 12:37:12 PM
Surr: BFB	101	84-116		%REC	1	11/16/2012 12:37:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Toluene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/16/2012 12:37:12 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	11/16/2012 12:37:12 PM

Chloride less than 30 mg/kg

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

Analytical Report

Lab Order: 1211697

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Conoco Phillips
Project: Richardson #9E
Lab ID: 1211697-002A

Client Sample ID: Walls Below Liner
Collection Date: 11/15/2012 8:19:00 AM
Matrix: MeOH (Soil)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	770	9.9		mg/Kg	1	11/16/2012 11:46:07 AM
Surr: DNOP	95.6	77.6-140		%REC	1	11/16/2012 11:46:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	470	50		mg/Kg	10	11/16/2012 1:05:57 PM
Surr: BFB	658	84-116	S	%REC	10	11/16/2012 1:05:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.25		mg/Kg	10	11/16/2012 1:05:57 PM
Toluene	ND	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Ethylbenzene	1.2	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Xylenes, Total	5.9	1.0		mg/Kg	10	11/16/2012 1:05:57 PM
Surr: 4-Bromofluorobenzene	133	80-120	S	%REC	10	11/16/2012 1:05:57 PM

chloride

180 mg/Kg

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH greater than 2
 RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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

November 21, 2012

Crystal Tafoya
Conoco Phillips
5525 Hwy 64 (3401 E. 30th St)
Farmington, NM 87402
TEL: (505) 215-4361
FAX

RE: Richardson #9E

OrderNo.: 1211697

Dear Crystal Tafoya:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/16/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. 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. 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.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1211697

Date Reported: 11/21/2012

CLIENT: Conoco Phillips

Client Sample ID: Walls Above Liner

Project: Richardson #9E

Collection Date: 11/15/2012 8:15:00 AM

Lab ID: 1211697-001

Matrix: MEOH (SOIL)

Received Date: 11/16/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/16/2012 11:24:17 AM
Surr: DNOP	86.8	77.6-140		%REC	1	11/16/2012 11:24:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/16/2012 12:37:12 PM
Surr: BFB	101	84-116		%REC	1	11/16/2012 12:37:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Toluene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/16/2012 12:37:12 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	11/16/2012 12:37:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	30		mg/Kg	20	11/16/2012 12:40:13 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Conoco Phillips

Client Sample ID: Walls Below Liner

Project: Richardson #9E

Collection Date: 11/15/2012 8:19:00 AM

Lab ID: 1211697-002

Matrix: MEOH (SOIL)

Received Date: 11/16/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	770	9.9		mg/Kg	1	11/16/2012 11:46:07 AM
Surr: DNOP	95.6	77.6-140		%REC	1	11/16/2012 11:46:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	450	50		mg/Kg	10	11/16/2012 1:05:57 PM
Surr: BFB	658	84-116	S	%REC	10	11/16/2012 1:05:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Toluene	ND	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Ethylbenzene	1.2	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Xylenes, Total	5.7	1.0		mg/Kg	10	11/16/2012 1:05:57 PM
Surr: 4-Bromofluorobenzene	133	80-120	S	%REC	10	11/16/2012 1:05:57 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	180	30		mg/Kg	20	11/16/2012 12:52:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211697

21-Nov-12

Client: Conoco Phillips

Project: Richardson #9E

Sample ID	MB-4864	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	4864	RunNo:	6970					
Prep Date:	11/16/2012	Analysis Date:	11/16/2012	SeqNo:	201879	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-4864	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	4864	RunNo:	6970					
Prep Date:	11/16/2012	Analysis Date:	11/16/2012	SeqNo:	201880	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211697

21-Nov-12

Client: Conoco Phillips

Project: Richardson #9E

Sample ID	MB-4850		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	PBS		Batch ID:	4850		RunNo:	6927				
Prep Date:	11/15/2012		Analysis Date:	11/16/2012		SeqNo:	200398		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	9.8		10.00		98.0	77.6	140				

Sample ID	LCS-4850		SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 4850		RunNo: 6927					
Prep Date:	11/15/2012		Analysis Date: 11/16/2012		SeqNo: 200399		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.4	47.4	122			
Surr: DNOP	4.1		5.000		82.4	77.6	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
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Hallen Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4101
Website: www.hallenenvironmental.com

Sample Log-In Check List

Client Name: Conoco Phillips Farm HWY 64 Work Order Number: 1211697

Received by/date: mg 11/16/12

Logged By: Michelle Garcia 11/16/2012 9:50:00 AM

Michelle Garcia

Completed By: Michelle Garcia 11/16/2012 10:36:33 AM

Michelle Garcia

Reviewed By: TO 11/16/2012

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

