

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company ConocoPhillips Co.	Contact Bobby Spearman
Address 3401 East 30th St, Farmington, NM	Telephone No. (505)-320-3045
Facility Name: Trieb Federal Com 2B	Facility Type: Gas well

Surface Owner: Fed	Mineral Owner: Fed	API No. 30045301400000
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	33	30N	10W	1875	North	66	East	San Juan

Latitude **36.770654** Longitude **-107.882757**

NATURE OF RELEASE

Type of Release Produced water / Condensate	Volume of Release 202 bbl total 135bbl produced water 67bbl condensate	Volume Recovered None
Source of Release Production tank	Date and Hour of Occurrence 4/27/16 1:00 p.m.	Date and Hour of Discovery Same
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith, Vanessa Fields w NMOCD. Katrina Diemer w BLM	
By Whom? Bobby Spearman	Date and Hour 4-28-16 4:00p	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

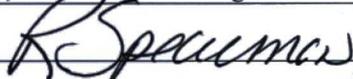
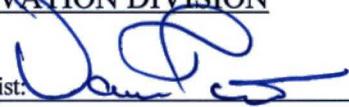
OIL CONS. DIV DIST. 3
NOV 17 2016

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Corrosion in production tank caused leak. well has been shut in

Describe Area Affected and Cleanup Action Taken.*
**On Sept 1 COP completed the remediation of the spill
Excavation was 93' x 36 x 8' avg Deep. 992 c/yds of soil was transported to IEL Land Farm and 992 c/yds of clean soil was placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling 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: Bobby Spearman	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 12/27/2016	Expiration Date:
E-mail Address: Robert.E.Spearman@conocophillips.com	Conditions of Approval: NCS 1612328817	Attached <input type="checkbox"/>
Date: 11-15-16	Phone: (505) 320-3045	

* Attach Additional Sheets If Necessary



November 09, 2016

Robert Spearman
ConocoPhillips
San Juan Business Unit
(505) 320-3045

OIL CONS. DIV DIST. 3

NOV 17 2016

Via electronic mail to:

SJBUE-Team@ConocoPhillips.com

**RE: Release Assessment and Final Excavation Report
Trieb Fed Com 2B
San Juan County, New Mexico**

Dear Mr. Spearman:

On May 13 and September 1, 2016, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) Trieb Fed Com 2B located in San Juan County, New Mexico. The release consisted of approximately 135 bbls of produced water and 67 bbls of condensate. An initial release assessment was completed on May 13, 2016, and the final excavation was completed by COPC contractors while AES was on location on September 1, 2016.

1.0 Site Information

1.1 Location

Site Name – Trieb Fed Com 2B

Location – SE¼ NE¼, Section 33, T30N, R10W, San Juan County, New Mexico

Well Head Latitude/Longitude – N36.77083 and W107.88303, respectively

BGT/Release Location Latitude/Longitude – N36.77063 and W107.88280, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map, May 2016

1.2 NMOCD Ranking

In accordance with NMOCD release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills,*

604 W. Píñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 206
Durango, CO 81301
970-403-3084

and Releases (August 1993) prior to site work. The release was given a ranking score of 20 based on the following factors:

- **Depth to Groundwater:** A Pit Remediation and Closure Report form dated 2008 reported the depth to groundwater as greater than 50 feet below ground surface (bgs) while a Site Specific Hydrogeology report from December 2008 stated a depth to groundwater of 79 feet bgs. (10 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash which discharges to the Little Slane Canyon wash is located approximately 250 feet west of the location. (10 points)

1.3 Assessment

AES was initially contacted by Robert Spearman, COPC representative, on May 4, 2016, and on May 13, 2016, Sam Glasses and Corwin Lameman of AES completed the release assessment field work. The assessment included collection and field sampling of 28 soil samples from 12 soil borings (SB-1 through SB-12) in and around the release area. Soil borings were terminated on sandstone between 2.5 and 12 feet bgs. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On September 1, 2016, AES personnel returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of eight confirmation soil samples (SC-1 through SC-8) of the walls and base of the excavation. The area of the final excavation measured approximately 93 feet by 36 feet by 5 to 13 feet in depth. The depth of the excavation was limited due to a confining sandstone unit from 5 to 13 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 28 soil samples (SB-1 through SB-12) and 8 composite samples (SC-1 through SC-8) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbon (TPH). All composite samples (SC-1 through SC-8) collected were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

2.1.3 Chlorides

Soil samples SB-1, SB-2, SB-8, and SB-10 were field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples SC-1 through SC-8 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B; and
- TPH as Gasoline Range Organics (GRO), Diesel Range Organics (DRO), and Motor Oil Range Organics (MRO) per method 8015.

2.3 Field and Laboratory Analytical Results

On May 13, 2016, initial assessment field screening results for VOCs via OVM ranged from 0.0 in SB-4, SB-8 and SB-11 up to 3,950 ppm in SC-1. Field TPH concentrations ranged from 32.8 mg/kg in SB-11 up to 9,694 mg/kg in SB-1. The field chloride concentrations ranged from 40 mg/kg in SB-2, SB-8 and SB-10, to 80 mg/kg in SB-1.

On September 1, 2016, final excavation field screening results for VOCs via OVM ranged from 0.1 ppm in SC-1 up to 183 ppm in SC-4. Field TPH concentrations ranged from less than 20 mg/kg in SC-5, SC-6 and SC-7 up to 145 mg/kg in SC-4. Field screening VOC and

TPH results are summarized in Table 1 and on Figures 2 through 4. The AES field sampling reports are attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results
 Trieb Fed Com 2B Release Assessment and Final Excavation
 May and September 2016

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
<i>NMOCD Action Level</i>			100	100	NE
SB-1	5/13/16	0.5	3,260	NA	80
		2	3,596	7,960	NA
		4	3,749	NA	NA
		5	3,950	9,690	60
SB-2	5/13/16	0.5	43.7	NA	NA
		2	2,283	626	40
SB-3	5/13/16	0.5	3.3	NA	NA
		2.5	0.2	50.2	NA
		2	2.0	NA	NA
SB-4	5/13/16	5	2.9	48.6	NA
		8	0.6	NA	NA
		12	0.0	40.7	NA
		5	0.8	50.2	NA
SB-5	5/13/16	3	4.4	NA	NA
		5	2.0	53.4	NA
SB-6	5/13/16	3.5	0.1	51.8	NA
		3	0.0	NA	NA
SB-7	5/13/16	6	5.3	40.7	NA
		10	20.6	43.9	NA
		12	4,212	1,570	40
		6	6.7	NA	NA
SB-8	5/13/16	7.75	5.9	37.5	NA
		6	0.3	NA	NA
SB-9	5/13/16	12	2.0	48.6	40

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action Level			100	100	NE
SB-11	5/13/16	6	0.0	NA	NA
		10.5	0.0	32.8	NA
SB-12	5/13/16	0.5	5.5	NA	NA
		3	0.5	112	NA
SC-1	9/1/16	0 to 6	0.1	24.5	NA
SC-2	9/1/16	0 to 5	1.9	29.4	NA
SC-3	9/1/16	0 to 6	79.6	60.4	NA
SC-4	9/1/16	5 to 6	183	145	NA
SC-5	9/1/16	0 to 13	2.5	<20.0	NA
SC-6	9/1/16	0 to 13	1.9	<20.0	NA
SC-7	9/1/16	0 to 13	1.5	<20.0	NA
SC-8	9/1/16	13	89.6	49.0	NA

NA – not analyzed

Laboratory analyses for SC-1 through SC-8 were used to confirm field sampling results from the final excavation extents. Benzene concentrations were reported below laboratory detection limits in all samples (SC-1 through SC-8). Total BTEX concentrations were reported also below laboratory detection limits in all samples (SC-1 through SC-8). Total TPH concentrations were reported below laboratory detection limits in samples SC-1, SC-2, and SC-5 through SC-8, and ranged up to 84 mg/kg in SC-4. Results are summarized in Table 2 and included on Figures 3 and 4. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, and TPH
 Trieb Fed Com 2B Release Assessment and Final Excavation
 September 2016

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)
NMOCD Action Level			10	50	100
SC-1	9/1/16	0 to 6	<0.016	<0.140	<12.3
SC-2	9/1/16	0 to 5	<0.016	<0.145	<13.2
SC-3	9/1/16	0 to 6	<0.016	<0.145	18

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)
NMOCD Action Level			10	50	100
SC-4	9/1/16	5 to 6	<0.015	<0.132	84
SC-5	9/1/16	0 to 13	<0.016	<0.144	<13.1
SC-6	9/1/16	0 to 13	<0.016	<0.140	<13.1
SC-7	9/1/16	0 to 13	<0.016	<0.143	<13.0
SC-8	9/1/16	13	<0.016	<0.143	<12.8

NA – not analyzed

3.0 Conclusions and Recommendations

On May 13, and September 1, 2016, AES conducted a release assessment and excavation clearance of petroleum contaminated soils due to a spill of approximately 135 bbls of produced water and 67 bbls of condensate at the Trieb Fed Com 2B. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 20.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in SB-1, SB-2, SB-8, and SB-12. The highest VOC concentration was reported in SB-8 with 4,212 ppm, and the highest TPH concentration was reported in SB-1 with 9,690 mg/kg. All field results for chloride concentrations were reported at or below 80 mg/kg. Based on field concentrations, a release was confirmed.

On September 1, 2016, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for all four of the final walls of the excavation. However, sample SC-4 (north base) reported VOC concentrations above the NMOCD action level with 183 ppm. Similarly, field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for all four of the final walls of the excavation, and above the NMOCD action level for the north base of the excavation, which had a TPH concentration of 145 mg/kg.

Laboratory analytical results reported benzene, total BTEX, and TPH concentrations as GRO/DRO/MRO in all four of the final walls and base of the excavation as below NMOCD action levels.

Based on the final laboratory analytical results of the excavation of petroleum contaminated soils at the Trieb Fed Com 2B, benzene, total BTEX, and TPH concentrations were below the applicable NMOC action levels for the final sidewalls and the base of the excavation. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Emilee Skyles at (505) 564-2281.

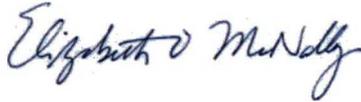
Sincerely,



Victoria Giannola
Project Manager



Emilee Skyles
Geologist/Project Lead



Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, May 2016
- Figure 3. Release Assessment Sample Locations and Results, May 2016
- Figure 4. Final Excavation Sample Locations and Results, September 2016
- AES Field Sampling Report 051316
- AES Field Sampling Report 082516
- AES Field Sampling Report 090116
- Hall Laboratory Analytical Report 1609067
- Hall Laboratory Analytical Report 1609073

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

September 08, 2016

Emilee Skyles
Animas Environmental
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX

RE: COPC Trieb Fed Com 2B

OrderNo.: 1609073

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/2/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1609073

Date Reported: 9/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: COPC Trieb Fed Com 2B

Collection Date: 9/1/2016 10:20:00 AM

Lab ID: 1609073-002

Matrix: MEOH (SOIL)

Received Date: 9/2/2016 7:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/7/2016 2:49:51 PM	27347
Surr: DNOP	90.7	70-130		%Rec	1	9/7/2016 2:49:51 PM	27347
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	9/3/2016 4:09:49 AM	27313
Surr: BFB	86.7	68.3-144		%Rec	1	9/3/2016 4:09:49 AM	27313
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	9/3/2016 4:09:49 AM	27312
Toluene	ND	0.032		mg/Kg	1	9/3/2016 4:09:49 AM	27312
Ethylbenzene	ND	0.032		mg/Kg	1	9/3/2016 4:09:49 AM	27312
Xylenes, Total	ND	0.065		mg/Kg	1	9/3/2016 4:09:49 AM	27312
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/3/2016 4:09:49 AM	27312

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

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

Analytical Report

Lab Order 1609073

Date Reported: 9/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: COPC Trieb Fed Com 2B

Collection Date: 9/1/2016 10:35:00 AM

Lab ID: 1609073-004

Matrix: MEOH (SOIL)

Received Date: 9/2/2016 7:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/7/2016 3:33:02 PM	27347
Surr: DNOP	97.1	70-130		%Rec	1	9/7/2016 3:33:02 PM	27347
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	9/3/2016 4:56:55 AM	27313
Surr: BFB	86.6	68.3-144		%Rec	1	9/3/2016 4:56:55 AM	27313
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	9/3/2016 4:56:55 AM	27312
Toluene	ND	0.032		mg/Kg	1	9/3/2016 4:56:55 AM	27312
Ethylbenzene	ND	0.032		mg/Kg	1	9/3/2016 4:56:55 AM	27312
Xylenes, Total	ND	0.064		mg/Kg	1	9/3/2016 4:56:55 AM	27312
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	9/3/2016 4:56:55 AM	27312

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

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

Analytical Report

Lab Order 1609073

Date Reported: 9/8/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-7

Project: COPC Trieb Fed Com 2B

Collection Date: 9/1/2016 10:45:00 AM

Lab ID: 1609073-006

Matrix: MEOH (SOIL)

Received Date: 9/2/2016 7:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/7/2016 4:16:18 PM	27347
Surr: DNOP	98.2	70-130		%Rec	1	9/7/2016 4:16:18 PM	27347
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	9/3/2016 5:43:54 AM	27313
Surr: BFB	86.9	68.3-144		%Rec	1	9/3/2016 5:43:54 AM	27313
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	9/3/2016 5:43:54 AM	27312
Toluene	ND	0.032		mg/Kg	1	9/3/2016 5:43:54 AM	27312
Ethylbenzene	ND	0.032		mg/Kg	1	9/3/2016 5:43:54 AM	27312
Xylenes, Total	ND	0.063		mg/Kg	1	9/3/2016 5:43:54 AM	27312
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	9/3/2016 5:43:54 AM	27312

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609073

08-Sep-16

Client: Animas Environmental
Project: COPC Trieb Fed Com 2B

Sample ID	1609073-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	27347	RunNo:	37024					
Prep Date:	9/6/2016	Analysis Date:	9/7/2016	SeqNo:	1147871	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.2	46.00	0	96.1	33.9	141			
Surr: DNOP	3.8		4.600		83.7	70	130			

Sample ID	1609073-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	27347	RunNo:	37024					
Prep Date:	9/6/2016	Analysis Date:	9/7/2016	SeqNo:	1147872	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.5	47.39	0	99.1	33.9	141	6.00	20	
Surr: DNOP	4.0		4.739		85.0	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609073

08-Sep-16

Client: Animas Environmental
Project: COPC Trieb Fed Com 2B

Sample ID: MB-27312	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: 27312	RunNo: 36969
Prep Date: 9/1/2016	Analysis Date: 9/2/2016	SeqNo: 1146076 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

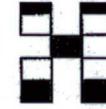
Sample ID: LCS-27312	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: 27312	RunNo: 36969
Prep Date: 9/1/2016	Analysis Date: 9/2/2016	SeqNo: 1146077 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	75.3	123			
Toluene	0.97	0.050	1.000	0	97.3	80	124			
Ethylbenzene	0.97	0.050	1.000	0	97.3	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	96.2	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Qualifiers:

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

Chain-of-Custody Record



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Client: Animas Environmental Services, LLC

Standard Rush 3-Day Turnaround

Mailing Address: 604 W Pinon St.
Farmington, NM 87401

Project Name: COPC Trieb Fed Com 2B
Project #:

Phone #: 505-564-2281

Project Manager: E. Skyles

Email or Fax#: eskyles@animasenvironmental.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation:
 NELAP Other

Sampler: CL
On Ice: Yes No

EDD (Type)

Sample Temperature: 15

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX - EPA 8021B	TPH (GRO/DRO) - EPA 8015											Air Bubbles (Y or N)						
9/1/16	12:50	SOIL	SC-1	1 - 4oz jar MeOH Kit	cool/ MeOH	1609073 -001	X	X																	
9/1/16	10:20	SOIL	SC-2	1 - 4oz jar MeOH Kit	cool/ MeOH	-002	X	X																	
9/1/16	10:25	SOIL	SC-3	1 - 4oz jar MeOH Kit	cool/ MeOH	-003	X	X																	
9/1/16	10:35	SOIL	SC-5	1 - 4oz jar MeOH Kit	cool/ MeOH	-004	X	X																	
9/1/16	10:40	SOIL	SC-6	1 - 4oz jar MeOH Kit	cool/ MeOH	-005	X	X																	
9/1/16	10:45	SOIL	SC-7	1 - 4oz jar MeOH Kit	cool/ MeOH	-006	X	X																	
9/1/16	10:52	SOIL	SC-8	1 - 4oz jar MeOH Kit	cool/ MeOH	-007	X	X																	

Date: 9/1/14 Time: 1630 Relinquished by: *Coni Lu*

Received by: *Christa Wally* Date: 9/1/16 Time: 1630

Remarks: Bill to Conoco Phillips
WO #21466527
Supervisor: Chirs Neuenschwander
USERID: BRADLY

Date: 9/1/16 Time: 1815 Relinquished by: *Christa Wally*

Received by: *Christa Wally* Date: 09/02/16 Time: 0705

Area: 3
Ordered by: Bobby Spearman

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.