

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, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter	RCVD SEP 29 '14
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9786	OIL CONS. DIV.
Facility Name: Grambling C #7	Facility Type: Gas Well	DIST. 3
Surface Owner BLM	Mineral Owner BLM	API No. 3004520671

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	12	30N	10W	890	North	1000'	East	Rio Arriba

Latitude **36.83124** Longitude **-107.83026**

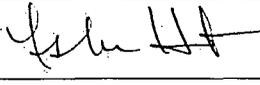
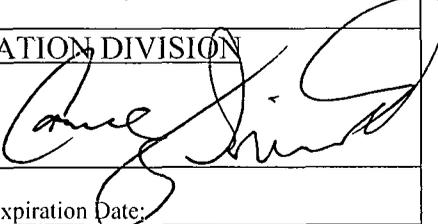
NATURE OF RELEASE

Type of Release Lube Oil	Volume of Release 7.38 BBL	Volume Recovered 5 BBL
Source of Release Day Tank	Date and Hour of Occurrence 07/14/14 @ 12:24 p.m.	Date and Hour of Discovery 07/14/14 @ 12:24 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.* N/A		

Describe Cause of Problem and Remedial Action Taken.*
While contractor was filling 500 gallon lube oil Day Tank, tank over pressurized and breached seam (northeast edge), releasing 7.38 BBLs of lube oil into and outside of bermed area. Release remained on location. Truck was called and removed standing fluids, recovering approximately 5 BBLs. Will hydrovac remaining contamination.

Describe Area Affected and Cleanup Action Taken.*
ConocoPhillips will hydrovac effected area to remove contaminated soil and assess the soil via third-party environmental to meet NMOCD regulatory standards. Excavation was completed in two sections 24' x 18' x 3' Deep and 10' x 45' x 1-2' Deep. 60 c/yds of soil was transported to IEI Land Farm and 70 c/yds of clean soil was transported in, and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.

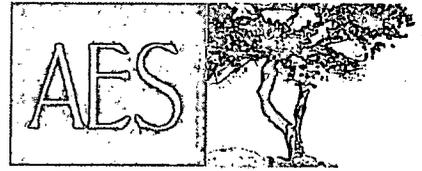
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 11/13/14	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: September 25, 2014	Phone: (505) 326-9786	

* Attach Additional Sheets If Necessary

#NCS 1431734857

27



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

September 17, 2014

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-04
5525 Hwy 64
Farmington, New Mexico 87401

Via electronic mail to:
SJBUE-Team@ConocoPhillips.com

**RE: Final Excavation Report
Grambling C #7
San Juan County, New Mexico**

Dear Ms. Hunter:

On July 18, 2014, Animas Environmental Services, LLC (AES) completed an environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Grambling C #7, located in San Juan County, New Mexico. The release occurred due to a damaged day tank and consisted of approximately 7.38 barrels (bbls) of lube oil, of which 5 bbls were recovered. Residual liquid surface contaminants were removed using a hydrovac truck. The final excavation was completed by CoP contractors while AES was at the location on July 18, 2014.

1.0 Site Information

1.1 Location

Site Name – Grambling C #7

Location – NE $\frac{1}{4}$ NE $\frac{1}{4}$, Section 12, T30N, R10W, San Juan County, New Mexico

Well Head Latitude/Longitude – N36.83139 and W107.83070, respectively

Release Location Latitude/Longitude – N36.83150 and W107.83062, respectively

Land Jurisdiction – Bureau of Land Management

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, July 2014

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills,*

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 cathodic protection report form dated May 1991 for the Grambling C #7 reported the depth to groundwater at 120 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Approximately 70 feet to the southwest there is an ephemeral stream drainage within Pilares Canyon that ultimately drains to Caballo Canyon and the San Juan River. (20 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on July 15, 2014, and on July 18, 2014, Emilee Skyles and David Reese of AES completed excavation field work. Field sampling activities included collection of 11 confirmation composite soil samples from the walls and base of two excavations. The final area of Excavation A measured approximately 24 feet by 18 feet by 3 to 4 feet in depth, and the final area of Excavation B measured approximately 10 feet by 45 feet by 2 feet in depth. Sample locations and final excavation extents are presented on Figure 3.

2.0 Soil Sampling

A total of 11 composite samples (SC-1 through SC-11) were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Six composite samples (SC-1 through SC-5 and SC-11) collected during the excavation clearance 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

Field TPH samples were analyzed 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*.

2.2 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 a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

- TPH for gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On July 18, 2014, final excavation field screening results for VOCs via OVM ranged from 0.1 ppm in SC-8 and SC-9 up to 0.6 ppm in SC-6. Field TPH concentrations ranged from 40.4 mg/kg in SC-7 up to 93.3 mg/kg in SC-5. Results are included below in Table 1 and on Figure 3. The AES Field Sampling Report is attached.

Table 1. Field Sampling VOCs and TPH Results
 Grambling C #7 Final Excavation, July 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
<i>NMOCDC Action Level*</i>			100	100
SC-1	7/18/14	1 to 3	0.3	63.5
SC-2	7/18/14	1 to 4	0.5	63.5
SC-3	7/18/14	1 to 4	0.2	45.8
SC-4	7/18/14	1 to 4	0.4	53.3
SC-5	7/18/14	3 to 4	0.4	93.3
SC-6	7/18/14	1 to 2	0.6	82.4
SC-7	7/18/14	1 to 2	0.2	40.4
SC-8	7/18/14	1 to 2	0.1	62.1
SC-9	7/18/14	1 to 2	0.1	62.1
SC-10	7/18/14	2	0.2	49.9
SC-11	7/18/14	1 to 2	0.2	NA

NA – not analyzed

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

Laboratory analyses for SC-1 through SC-5 and SC-11 were used to confirm field sampling results from the final excavations. TPH concentrations as GRO/DRO/MRO were reported below the NMOCD action level of 100 mg/kg in all samples. Results are presented in Table 2 and on Figure 3. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results –TPH
 Grambling C #7 Final Excavations, July 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	GRO	DRO	MRO
			(mg/kg)	(mg/kg)	(mg/kg)
<i>NMOCD Action Level*</i>			100		
SC-1	7/18/14	1 to 3	<5.0	<10	<50
SC-2	7/18/14	1 to 4	<4.7	<9.9	<50
SC-3	7/18/14	1 to 4	<4.8	<10	<50
SC-4	7/18/14	1 to 4	<4.9	<10	<50
SC-5	7/18/14	3 to 4	<4.8	<10	<50
SC-11	7/18/14	1 to 2	<4.7	<10	<50

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On July 18, 2014, AES completed final clearance of the excavation areas associated with petroleum contaminated soils at the Grambling C #7. 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.

Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls and base of both excavations. Field TPH concentrations were also below the applicable NMOCD action level of 100 mg/kg for the final walls and base of both excavations. Laboratory analytical results reported TPH concentrations as GRO/DRO/MRO below the applicable NMOCD action levels in all samples.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Grambling C #7, VOC and TPH concentrations were

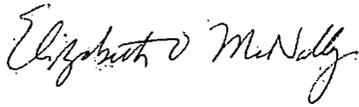
below applicable NMOCD action levels for each of the sidewalls and excavation bases.
No further work is recommended.

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

Sincerely,



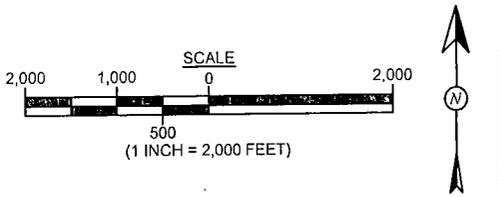
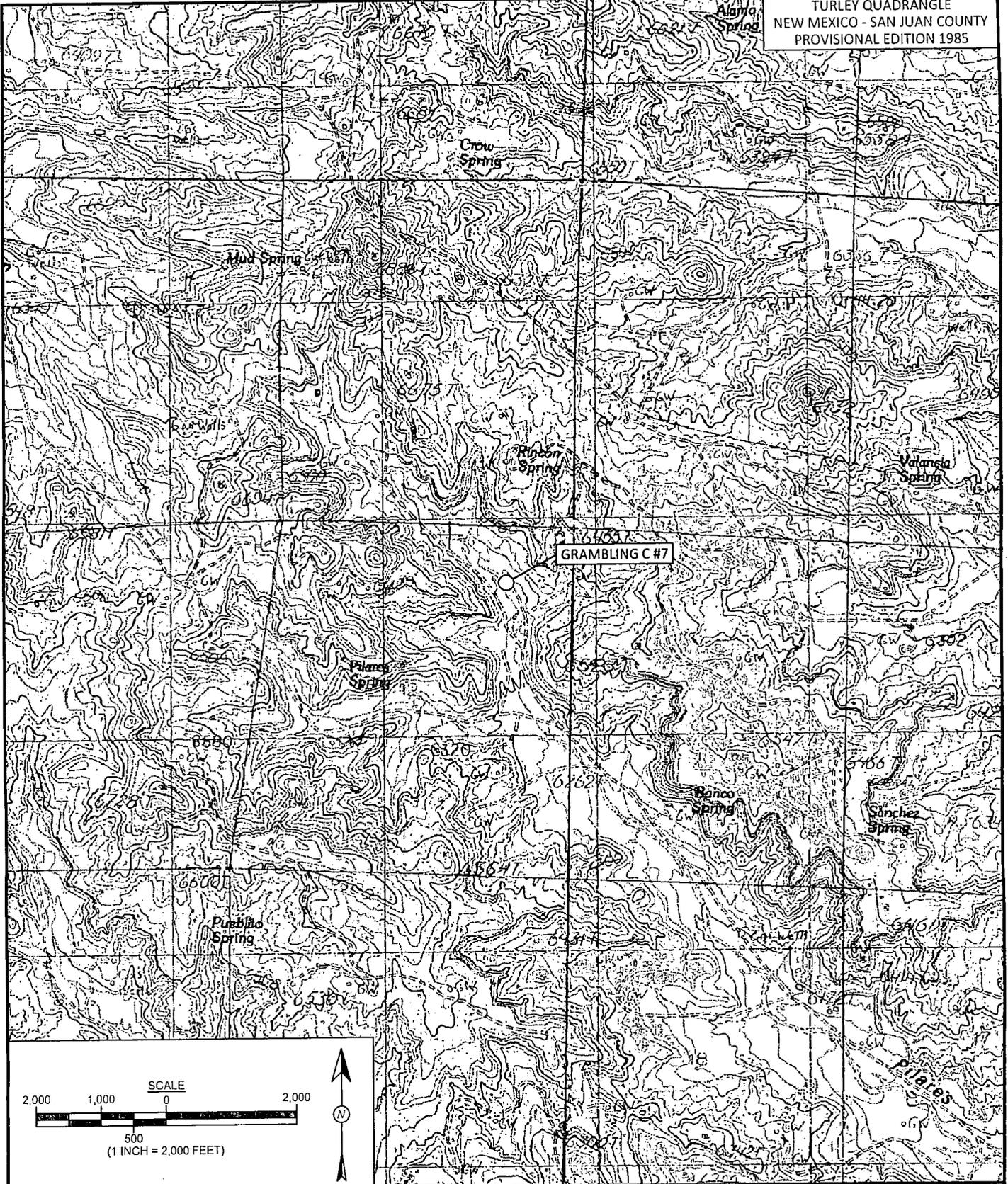
Emilee Skyles
Staff Geologist



Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, July 2014
- Figure 3. Excavation Sample Locations and Results, July 2014
- AES Field Sampling Report 071814
- Hall Laboratory Analytical Report 1407A59
- Hall Laboratory Analytical Report 1407B34



Animas Environmental Services, LLC

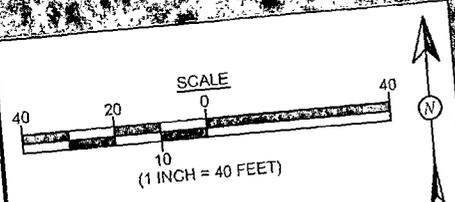
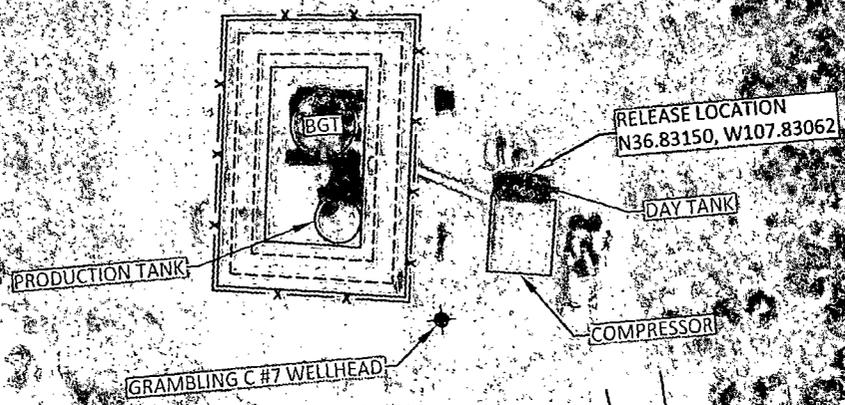
DRAWN BY: S. Glasses	DATE DRAWN: July 21, 2014
REVISIONS BY: C. Lameman	DATE REVISED: September 9, 2014
CHECKED BY: E. Skyles	DATE CHECKED: September 9, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 9, 2014

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 GRAMBLING C #7
 NE¼ NE¼, SECTION 12, T30N, R10W
 SAN JUAN COUNTY, NEW MEXICO
 N36.83139, W107.83070

LEGEND

===== SECONDARY CONTAINMENT
 ----- BERM
 - x - FENCE



AERIAL SOURCE: © 2013 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: APRIL 4, 2013



DRAWN BY: S. Glasses	DATE DRAWN: July 21, 2014
REVISIONS BY: C. Lameman	DATE REVISED: September 9, 2014
CHECKED BY: E. Skyles	DATE CHECKED: September 9, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 9, 2014

FIGURE 2

**AERIAL SITE MAP
JULY 2014**

ConocoPhillips
GRAMBLING C #7
NE¼, NE¼, SECTION 12, T30N, R10W
SAN JUAN COUNTY, NEW MEXICO
N36.83139, W107.83070

FIGURE 3

EXCAVATION SAMPLE LOCATIONS AND RESULTS JULY 2014
 ConocoPhillips
 GRAMBLING C #7
 NE¼ NE¼, SECTION 12, T30N, R10W
 SAN JUAN COUNTY, NEW MEXICO
 N36.83139, W107.83070

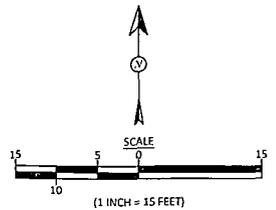


Animas Environmental Services, LLC

DRAWN BY: S. Glasses	DATE DRAWN: July 21, 2014
REVISIONS BY: C. Lameman	DATE REVISED: September 9, 2014
CHECKED BY: E. Skyles	DATE CHECKED: September 9, 2014
APPROVED BY: E. McNally	DATE APPROVED: September 9, 2014

LEGEND

- SAMPLE LOCATIONS
- ==== SECONDARY CONTAINMENT BERM
- x- FENCE

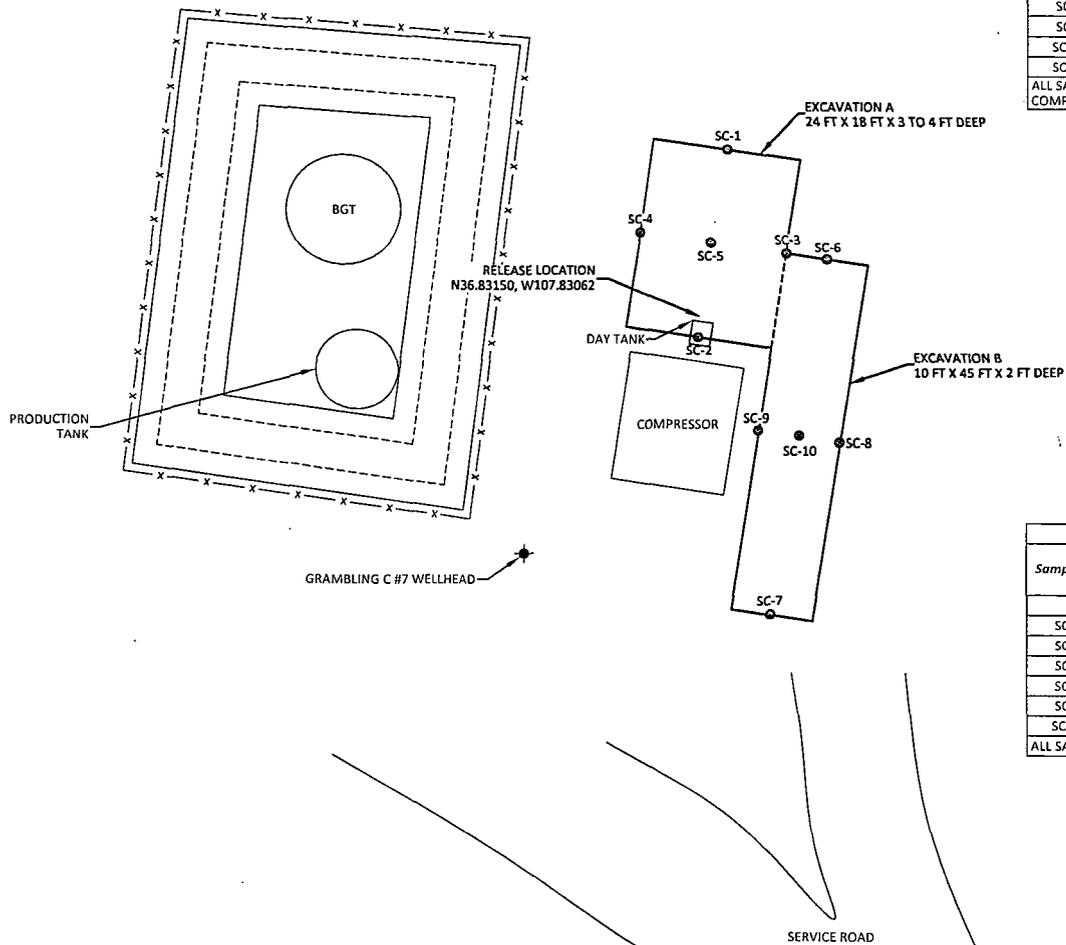


Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOC ACTION LEVEL				
SC-1	7/18/14	1 to 3	0.3	63.5
SC-2	7/18/14	1 to 4	0.5	63.5
SC-3	7/18/14	1 to 4	0.2	45.8
SC-4	7/18/14	1 to 4	0.4	53.3
SC-5	7/18/14	3 to 4	0.4	93.3
SC-6	7/18/14	1 to 2	0.6	82.4
SC-7	7/18/14	1 to 2	0.2	40.4
SC-8	7/18/14	1 to 2	0.1	62.1
SC-9	7/18/14	1 to 2	0.1	62.1
SC-10	7/18/14	2	0.2	49.9
SC-11	7/18/14	1 to 2	0.2	NA

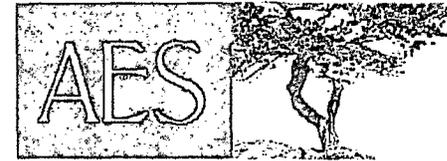
ALL SAMPLES ARE COMPOSITE SAMPLES. SC-11 WAS A COMPOSITE OF EXCAVATION B. NA - NOT ANALYZED.

Laboratory Analytical Results					
Sample ID	Date	Depth (ft)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)
NMOC ACTION LEVEL					
SC-1	7/8/14	1 to 3	<5.0	<10	<50
SC-2	7/8/14	1 to 4	<4.7	<9.9	<50
SC-3	7/8/14	1 to 4	<4.8	<10	<50
SC-4	7/8/14	1 to 4	<4.9	<10	<50
SC-5	7/8/14	3 to 4	<4.8	<10	<50
SC-11	7/8/14	1 to 2	<4.7	<10	<50

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8015D.



AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Grambling C #7

Date: 7/18/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	TPH Analysis Time	TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	7/18/2014	14:09	North A	0.3	11:08**	63.5	20.0	1	EMS
SC-2	7/18/2014	14:11	South A	0.5	14:42	63.5	20.0	1	EMS
SC-3	7/18/2014	15:20	East A	0.2	11:10**	45.8	20.0	1	EMS
SC-4	7/18/2014	14:12	West A	0.4	14:41	53.3	20.0	1	EMS
SC-5	7/18/2014	15:37	Base A	0.4	18:45	93.3	20.0	1	EMS
SC-6	7/18/2014	15:25	North B	0.6	12:09**	82.4	20.0	1	EMS
SC-7	7/18/2014	15:30	South B	0.2	11:18**	40.4	20.0	1	EMS
SC-8	7/18/2014	15:15	East B	0.1	11:16**	62.1	20.0	1	EMS
SC-9	7/18/2014	15:35	West B	0.1	11:21**	62.1	20.0	1	EMS
SC-10	7/18/2014	15:14	Base B	0.2	18:01	49.9	20.0	1	EMS
SC-11	7/18/2014	15:50	Composite B	0.2	Not analyzed for TPH				

DF Dilution Factor
 NA Not Analyzed
 ND Not Detected at the Reporting Limit

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit
**TPH concentrations recorded may be below PQL.*
***Samples analyzed on 7/22/14*

Analyst: *Erin SkL*



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

July 29, 2014

Debbie Watson
Animas Environmental
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: CoP Grambling C #7

OrderNo.: 1407A59

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 7/23/2014 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 horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: CoP Grambling C #7

Collection Date: 7/18/2014 2:09:00 PM

Lab ID: 1407A59-001

Matrix: SOIL

Received Date: 7/23/2014 7:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2014 12:37:20 PM	14414
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2014 12:37:20 PM	14414
Surr: DNOP	104	57.9-140		%REC	1	7/25/2014 12:37:20 PM	14414
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2014 2:56:27 PM	14392
Surr: BFB	89.0	80-120		%REC	1	7/24/2014 2:56:27 PM	14392

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP Grambling C #7

Collection Date: 7/18/2014 2:11:00 PM

Lab ID: 1407A59-002

Matrix: SOIL

Received Date: 7/23/2014 7:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/25/2014 1:42:52 PM	14414
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2014 1:42:52 PM	14414
Surr: DNOP	103	57.9-140		%REC	1	7/25/2014 1:42:52 PM	14414
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/24/2014 3:25:08 PM	14392
Surr: BFB	88.9	80-120		%REC	1	7/24/2014 3:25:08 PM	14392

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: CoP Grambling C #7

Collection Date: 7/18/2014 3:20:00 PM

Lab ID: 1407A59-003

Matrix: SOIL

Received Date: 7/23/2014 7:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2014 2:04:37 PM	14414
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2014 2:04:37 PM	14414
Surr: DNOP	96.7	57.9-140		%REC	1	7/25/2014 2:04:37 PM	14414
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2014 3:53:46 PM	14392
Surr: BFB	89.5	80-120		%REC	1	7/24/2014 3:53:46 PM	14392

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP Grambling C #7

Collection Date: 7/18/2014 3:37:00 PM

Lab ID: 1407A59-005

Matrix: SOIL

Received Date: 7/23/2014 7:56:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2014 2:48:18 PM	14414
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2014 2:48:18 PM	14414
Surr: DNOP	103	57.9-140		%REC	1	7/25/2014 2:48:18 PM	14414
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2014 4:50:57 PM	14392
Surr: BFB	88.1	80-120		%REC	1	7/24/2014 4:50:57 PM	14392

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407A59

29-Jul-14

Client: Animas Environmental

Project: CoP Grambling C #7

Sample ID	MB-14414	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	14414	RunNo:	20106					
Prep Date:	7/24/2014	Analysis Date:	7/24/2014	SeqNo:	584672	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.1	57.9	140			

Sample ID	LCS-14414	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	14414	RunNo:	20106					
Prep Date:	7/24/2014	Analysis Date:	7/24/2014	SeqNo:	584673	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	68.6	130			
Surr: DNOP	4.6		5.000		91.5	57.9	140			

Sample ID	MB-14393	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	14393	RunNo:	20106					
Prep Date:	7/23/2014	Analysis Date:	7/24/2014	SeqNo:	585046	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		94.2	57.9	140			

Sample ID	LCS-14393	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	14393	RunNo:	20106					
Prep Date:	7/23/2014	Analysis Date:	7/24/2014	SeqNo:	585047	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.9	57.9	140			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407A59

29-Jul-14

Client: Animas Environmental

Project: CoP Grambling C #7

Sample ID	MB-14392	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	14392	RunNo:	20111					
Prep Date:	7/23/2014	Analysis Date:	7/24/2014	SeqNo:	584845	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.2	80	120			

Sample ID	LCS-14392	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	14392	RunNo:	20111					
Prep Date:	7/23/2014	Analysis Date:	7/24/2014	SeqNo:	584846	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	25.00	0	129	71.7	134			
Surr: BFB	1100		1000		109	80	120			

Sample ID	1407A59-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	14392	RunNo:	20111					
Prep Date:	7/23/2014	Analysis Date:	7/24/2014	SeqNo:	584848	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	25.00	0	127	71.8	132			
Surr: BFB	950		1000		95.3	80	120			

Sample ID	1407A59-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	14392	RunNo:	20111					
Prep Date:	7/23/2014	Analysis Date:	7/24/2014	SeqNo:	584849	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	121	71.8	132	4.38	20	
Surr: BFB	940		1000		94.5	80	120	0	0	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1407A59

RcptNo: 1

Received by/date: AS 07/23/14

Logged By: Ashley Gallegos 7/23/2014 7:56:00 AM AG

Completed By: Ashley Gallegos 7/23/2014 11:56:28 AM AG

Reviewed By: IO 07/23/2014

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

Chain-of-Custody Record

Turn-Around Time:

Standard Rush

Project Name:
CoP GRAMBLING C#7

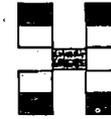
Project #:

Project Manager:
D. Watson

Sampler: E. Skyles

On Ice: Yes No

Sample Temperature: 27°



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Client: Animas Environmental Services

Mailing Address: 604 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

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

Accreditation
 NELAP Other _____

EDD (Type) _____

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO DRO) (MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)	
7-18-14	14:09	Soil	SC-1	1-4oz	cold	1410-7-A59			X										
7-18-14	14:11	Soil	SC-2						X										
7-18-14	15:20	Soil	SC-3						X										
7-18-14	14:12	Soil	SC-4						X										
7-18-14	15:37	Soil	SC-5						X										

Date: 7/22/14	Time: 11:45	Relinquished by: <u>[Signature]</u>	Received by: <u>Christi Valt</u>	Date: 7/22/14	Time: 11:45	Remarks: Bill to ConocoPhillips WO: 202 76A76 Area: 5 Supervisor: Jim Peace User: MCINNSK Requested by: Lisa Hunter
Date: 8/2/14	Time: 1800	Relinquished by: <u>Christi Valt</u>	Received by: <u>Celina Somo</u>	Date: 07/23/14	Time: 0756	

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

July 30, 2014

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX (505) 324-2022

RE: COP Grambling C#7

OrderNo.: 1407B34

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/24/2014 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 white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-11

Project: COP Grambling C#7

Collection Date: 7/18/2014 3:50:00 PM

Lab ID: 1407B34-001

Matrix: SOIL

Received Date: 7/24/2014 8:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2014 5:43:27 PM	14414
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2014 5:43:27 PM	14414
Surr: DNOP	86.5	57.9-140		%REC	1	7/25/2014 5:43:27 PM	14414
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/28/2014 5:50:48 PM	14425
Surr: BFB	82.7	80-120		%REC	1	7/28/2014 5:50:48 PM	14425

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407B34

30-Jul-14

Client: Animas Environmental Services

Project: COP Grambling C#7

Sample ID	MB-14414	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	14414	RunNo:	20106					
Prep Date:	7/24/2014	Analysis Date:	7/24/2014	SeqNo:	584672	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.1	57.9	140			

Sample ID	LCS-14414	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	14414	RunNo:	20106					
Prep Date:	7/24/2014	Analysis Date:	7/24/2014	SeqNo:	584673	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	68.6	130			
Surr: DNOP	4.6		5.000		91.5	57.9	140			

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 greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407B34
30-Jul-14

Client: Animas Environmental Services
Project: COP Grambling C#7

Sample ID	LCS-14425	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	14425	RunNo:	20168					
Prep Date:	7/24/2014	Analysis Date:	7/25/2014	SeqNo:	586276	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.3	71.7	134			
Surr: BFB	920		1000		92.4	80	120			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1407B34

RcptNo: 1

Received by/date: LM 07/24/14

Logged By: **Cellina Sessa** 7/24/2014 8:15:00 AM *Cellina Sessa*

Completed By: **Cellina Sessa** 7/24/2014 9:20:20 AM *Cellina Sessa*

Reviewed By: *[Signature]* 07/24/14

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 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

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____

By Whom: _____ Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good	Yes			

