

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

SEP 02 2015

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report 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: McGrath 3	Facility Type: Gas Well

Surface Owner Fee	Mineral Owner Fee	API No. 30-045-08709
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LOCATION OF RELEASE

Unit Letter J	Section 3	Township 29N	Range 12W	Feet from the 1650	North/South Line South	Feet from the 1650	East/West Line East	County San Juan
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Latitude 36.7523 Longitude -108.08221

NATURE OF RELEASE

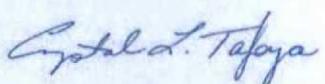
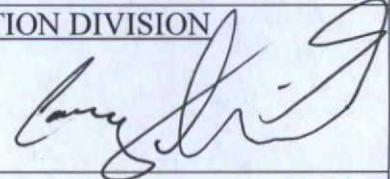
Type of Release Produced Water	Volume of Release Unknown	Volume Recovered Unknown
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery March 13, 2013
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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.*
Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC.

Describe Area Affected and Cleanup Action Taken.*
NMOCD action levels for releases are specified in NMOCD's Guidelines for Leaks, Spills and Releases and the release was assigned a ranking score of 10. Samples were collected and analytical results for chlorides exceeded applicable NMOCD action levels. Brandon Powell was contacted on 3/15/13 and approved leaving the chlorides in place. No further work will be performed. 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: 3/28/14	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/25/2015 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

#NCS 160 883 8927

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Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

May 6, 2013

Crystal Tafoya
ConocoPhillips
San Juan Business Unit
Office 214-05
5525 Hwy 64
Farmington, New Mexico 87401

**RE: Below Grade Tank Closure Report
McGrath #3
San Juan County, New Mexico**

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) McGrath #3, located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – McGrath #3

Legal Description – NW¼ SE¼, Section 3, T29N, R12W, San Juan County, New Mexico

Well Latitude/Longitude – N36.75248 and W108.08277, respectively

BGT Latitude/Longitude – N36.75237 and W108.08302, respectively

Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and pit remediation and closure report dated June 1999 for the McGrath #3 reported the depth to groundwater as greater than 100 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool

(<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. An unnamed wash, which ultimately discharges to the San Juan River, is located approximately 700 feet south of the location. Based on this information, the location was assessed a ranking score of 10.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on March 13, 2013, and on March 14, 2013, Corwin Lameman and Anna Riling of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

2.0 Soil Sampling

On March 14, 2013, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for chloride and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors 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 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 sample SC-1 was 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 composite soil sample SC-1 collected for laboratory analysis was placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil sample SC-1 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8260B; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 10.1 ppm in S-1 up to 33.0 ppm in S-5. Field TPH concentrations ranged from 26.1 mg/kg in S-3 up to 75.8 mg/kg in S-1. The field chloride concentration in SC-1 was greater than 400 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
 McGrath #3 BGT Closure, March 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
NMOCD Action Level (NMAC 19.15.17.13E)			--	100	250
S-1	03/14/13	0.5	10.1	75.8	NA
S-2	03/14/13	0.5	28.0	28.8	NA
S-3	03/14/13	0.5	11.7	26.1	NA
S-4	03/14/13	0.5	24.5	47.6	NA
S-5	03/14/13	0.5	33.0	31.5	NA
SC-1	03/14/13	0.5	NA	NA	>400

NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. The laboratory chloride concentration was reported at 4,200 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
McGrath #3 BGT Closure, March 2013

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13E)			0.2	50	100		250
SC-1	03/14/13	0.5	<0.050	<0.25	NA	NA	4,200

NA - not analyzed

3.0 Conclusions and Recommendations

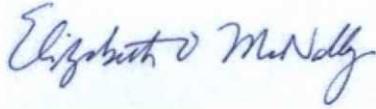
NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-1 with 75.8 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were above the NMOCD action level of 250 mg/kg with 4,200 mg/kg. Crystal Tafoya of CoP consulted with Brandon Powell of NMOCD and received approval to leave soils in place on March 15, 2013. No further work is recommended at this time for chloride impacted soils beneath the former BGT at the McGrath #3.

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

Sincerely,



Kelsey Christiansen
Environmental Scientist

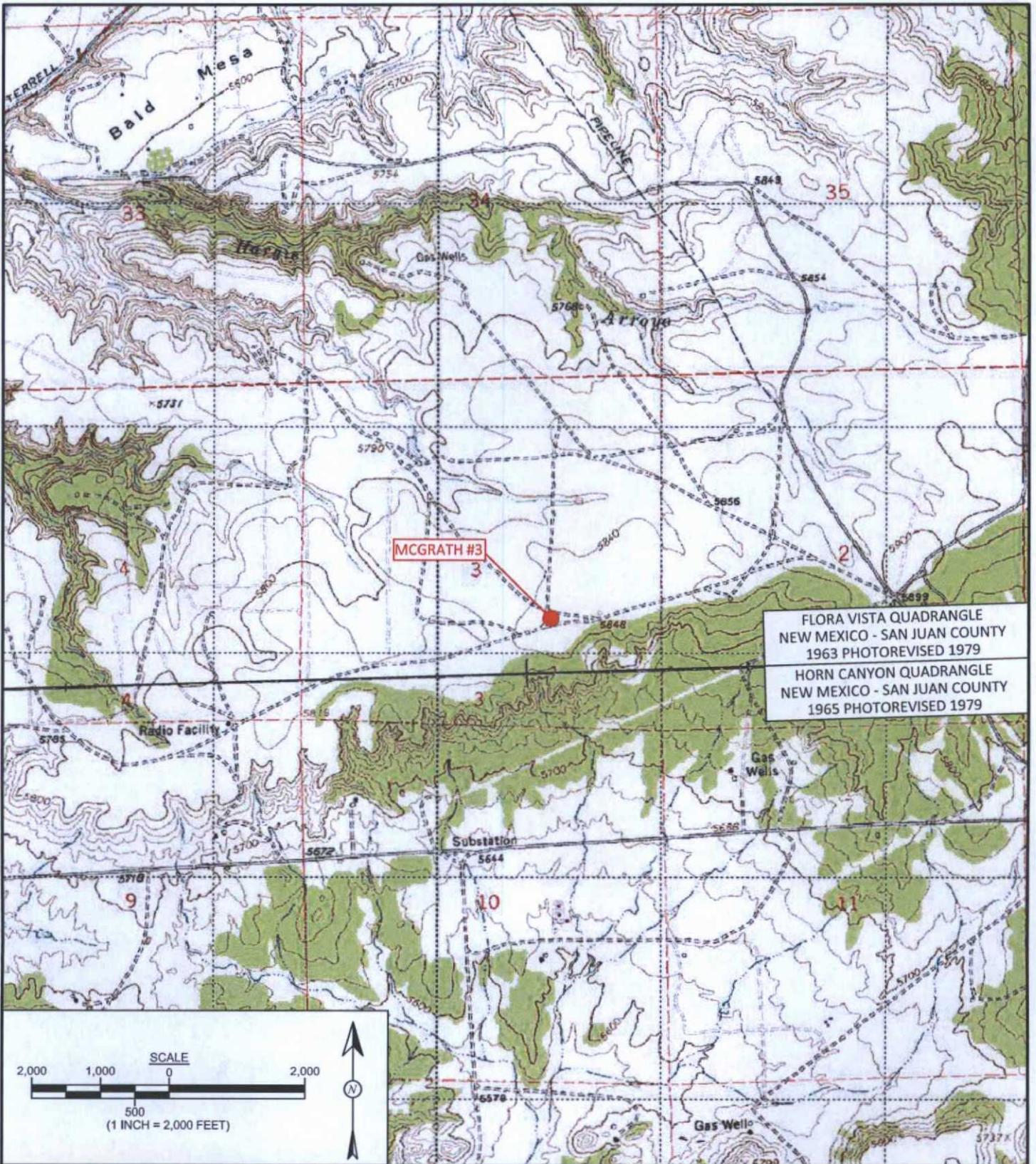


Elizabeth McNally, P.E.

Attachments:

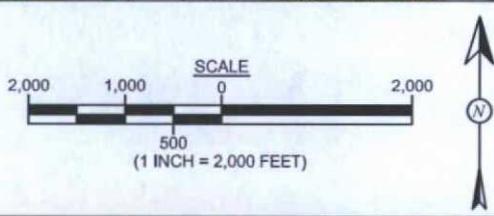
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2013
- AES Field Screening Report 031413
- Hall Analytical Report 1303597

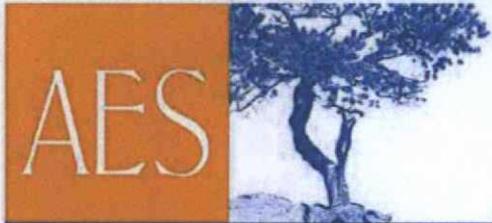
R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\McGrath #3\McGrath #3 BGT Closure Report
050613.docx



FLORA VISTA QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 1963 PHOTOREVISED 1979

HORN CANYON QUADRANGLE
 NEW MEXICO - SAN JUAN COUNTY
 1965 PHOTOREVISED 1979



 AES Animas Environmental Services, LLC	DRAWN BY: K. Christiansen	DATE DRAWN: April 9, 2013	FIGURE 1 TOPOGRAPHIC SITE LOCATION MAP ConocoPhillips MCGRATH #3 NW¼, SE¼, SECTION 3, T29N, R12W SAN JUAN COUNTY, NEW MEXICO N36.75248, W108.08277
	REVISIONS BY: K. Christiansen	DATE REVISED: April 9, 2013	
	CHECKED BY: D. Watson	DATE CHECKED: April 3, 2013	
	APPROVED BY: E. McNally	DATE APPROVED: April 3, 2013	

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LEGEND

● SAMPLE LOCATIONS

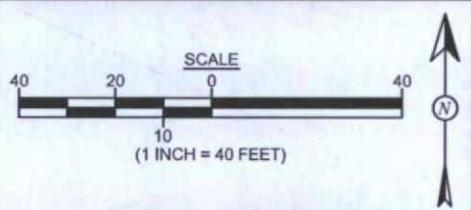
Field Screening Results				
Sample ID	Date	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOC ACTION LEVEL		--	100	250
S-1	3/14/13	10.1	75.8	NA
S-2	3/14/13	28.0	28.8	NA
S-3	3/14/13	11.7	26.1	NA
S-4	3/14/13	24.5	47.6	NA
S-5	3/14/13	33.0	31.5	NA
SC-1	3/14/13	NA	NA	480

Laboratory Analytical Results						
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOC ACTION LEVEL		0.2	50	100		250
SC-1	3/14/13	<0.050	<0.25	NA	NA	4,200

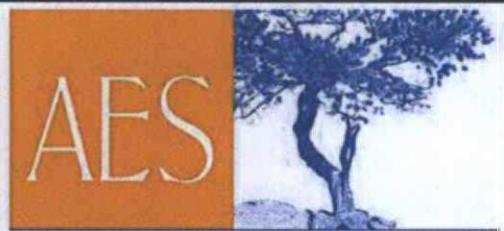
SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED

SAMPLE WAS ANALYZED PER EPA METHOD 8260B AND 300.0. NA- NOT ANALYZED

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AERIAL SOURCE: © 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE



Animas Environmental Services, LLC

DRAWN BY: K. Christiansen	DATE DRAWN: April 9, 2013
REVISIONS BY: K. Christiansen	DATE REVISED: April 9, 2013
CHECKED BY: D. Watson	DATE CHECKED: April 13, 2013
APPROVED BY: E. McNally	DATE APPROVED: April 13, 2013

FIGURE 2
AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
MARCH 2013
 ConocoPhillips
 MCGRATH #3
 NW¼ SE¼, SECTION 3, T29N, R12W
 SAN JUAN COUNTY, NEW MEXICO
 N36.75248, W108.08277

AES Field Screening 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: McGrath #3

Date: 3/14/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	3/14/2013	12:10	North	10.1	NA	12:47	75.8	20.0	1	CL
S-2	3/14/2013	12:11	South	28.0	NA	12:51	28.8	20.0	1	CL
S-3	3/14/2013	12:12	East	11.7	NA	12:56	26.1	20.0	1	CL
S-4	3/14/2013	12:13	West	24.5	NA	13:23	47.6	20.0	1	CL
S-5	3/14/2013	12:14	Center	33.0	NA	13:06	31.5	20.0	1	CL
SC-1	3/14/2013	12:15	Composite	NA	>400	Not Analyzed for TPH.				

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

NA Not Analyzed

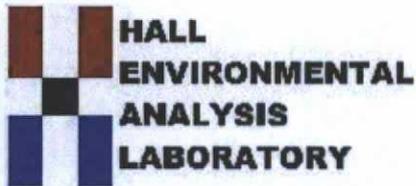
DF Dilution Factor

*Field TPH concentrations recorded may be below PQL.

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



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

March 20, 2013

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: COP McGrath #3

OrderNo.: 1303597

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2013 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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: COP McGrath #3

Collection Date: 3/14/2013 12:15:00 PM

Lab ID: 1303597-001

Matrix: MEOH (SOIL)

Received Date: 3/15/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	4200	300		mg/Kg	200	3/15/2013 12:31:46 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	3/15/2013 12:40:56 PM
Toluene	ND	0.050		mg/Kg	1	3/15/2013 12:40:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/15/2013 12:40:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/15/2013 12:40:56 PM
Surr: 1,2-Dichloroethane-d4	84.9	70-130		%REC	1	3/15/2013 12:40:56 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%REC	1	3/15/2013 12:40:56 PM
Surr: Dibromofluoromethane	91.1	70-130		%REC	1	3/15/2013 12:40:56 PM
Surr: Toluene-d8	99.8	70-130		%REC	1	3/15/2013 12:40:56 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#: 1303597

20-Mar-13

Client: Animas Environmental Services
Project: COP McGrath #3

Sample ID	MB-6497	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	6497	RunNo:	9234					
Prep Date:	3/15/2013	Analysis Date:	3/15/2013	SeqNo:	262730	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-6497	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	6497	RunNo:	9234					
Prep Date:	3/15/2013	Analysis Date:	3/15/2013	SeqNo:	262731	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.3	90	110			

Sample ID	1303523-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	6497	RunNo:	9234					
Prep Date:	3/15/2013	Analysis Date:	3/15/2013	SeqNo:	262733	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	7.5	15.00	0	94.6	64.4	117			

Sample ID	1303523-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	6497	RunNo:	9234					
Prep Date:	3/15/2013	Analysis Date:	3/15/2013	SeqNo:	262734	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	7.5	15.00	0	94.0	64.4	117	0.689	20	

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#: 1303597

20-Mar-13

Client: Animas Environmental Services
Project: COP McGrath #3

Sample ID	5ml-rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	R9211	RunNo:	9211					
Prep Date:		Analysis Date:	3/15/2013	SeqNo:	262458	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.0	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.0	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.6	70	130			
Surr: Toluene-d8	0.46		0.5000		92.7	70	130			

Sample ID	100ng Ics	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	R9211	RunNo:	9211					
Prep Date:		Analysis Date:	3/15/2013	SeqNo:	262459	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	70	130			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.9	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.8	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.5	70	130			
Surr: Toluene-d8	0.46		0.5000		92.1	70	130			

Sample ID	mb-6467	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	6467	RunNo:	9211					
Prep Date:	3/13/2013	Analysis Date:	3/15/2013	SeqNo:	262469	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		87.0	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.2	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.1	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Sample ID	Ics-6467	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	6467	RunNo:	9211					
Prep Date:	3/13/2013	Analysis Date:	3/15/2013	SeqNo:	262470	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		87.9	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.0	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		91.5	70	130			
Surr: Toluene-d8	0.53		0.5000		106	70	130			

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#: 1303597

20-Mar-13

Client: Animas Environmental Services
Project: COP McGrath #3

Sample ID	1303523-001ams	SampType:	MS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	6467	RunNo:	9211					
Prep Date:	3/13/2013	Analysis Date:	3/15/2013	SeqNo:	262475	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.42		0.4744		88.3	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.4744		87.6	70	130			
Surr: Dibromofluoromethane	0.45		0.4744		94.6	70	130			
Surr: Toluene-d8	0.48		0.4744		100	70	130			

Sample ID	1303523-001amsd	SampType:	MSD	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC	Batch ID:	6467	RunNo:	9211					
Prep Date:	3/13/2013	Analysis Date:	3/15/2013	SeqNo:	262476	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.43		0.4753		89.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.43		0.4753		89.4	70	130	0	0	
Surr: Dibromofluoromethane	0.45		0.4753		95.1	70	130	0	0	
Surr: Toluene-d8	0.47		0.4753		99.3	70	130	0	0	

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1303597
 Received by/date: [Signature] 03/15/13
 Logged By: Lindsay Mangin 3/15/2013 10:00:00 AM [Signature]
 Completed By: Lindsay Mangin 3/15/2013 10:05:16 AM [Signature]
 Reviewed By: [Signature] 03/15/13

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° 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: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

