

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: San Juan 30-6 Unit 475S	Facility Type: Gas Well

Surface Owner Federal	Mineral Owner Federal (SF-080712-A)	API No. 30-039-27618
------------------------------	--	-----------------------------

LOCATION OF RELEASE

Unit Letter D	Section 27	Township 30N	Range 6W	Feet from the 1310	North/South Line North	Feet from the 1150	East/West Line West	County Rio Arriba
-------------------------	----------------------	------------------------	--------------------	------------------------------	----------------------------------	------------------------------	-------------------------------	-----------------------------

Latitude 36.78722 Longitude 107.45531

NATURE OF RELEASE

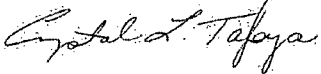
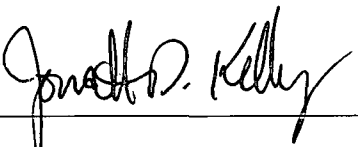
Type of Release Produced Fluids	Volume of Release	Volume Recovered
Source of Release Below Grade Tank	Date and Hour of Occurrence	Date and Hour of Discovery 11/21/2012 11:22 AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? RCVD JAN 14 '13	
By Whom?	Date and Hour OIL CONSV. DIV.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. DIST. 3	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Below Grade Tank Closure Activities

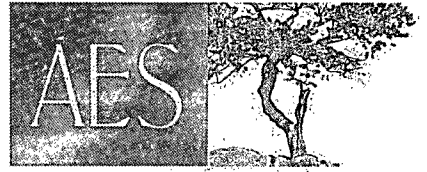
Describe Area Affected and Cleanup Action Taken.*
The regulatory standard for closure at this site was determined to be 100 ppm. A soil sample was taken and then transported to the lab and analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya		Approved by Environmental Specialist 	
Title: Field Environmental Specialist		Approval Date: 7/17/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 1/9/2013 Phone: (505) 326-9837			

* Attach Additional Sheets If Necessary

13198 25969



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

January 7, 2013

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

**RE: Below Grade Tank Closure Report
San Juan 30-6 #475S
Rio Arriba 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) San Juan 30-6 #475S, located in Rio Arriba 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 – San Juan 30-6 #475S

Legal Description – SW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 27, T30N, R6W, Rio Arriba County, New Mexico

Well Latitude/Longitude – N36.78722 and W107.45531, respectively

BGT Latitude/Longitude – N36.78701 and W107.45522, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, November 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 form dated January 2006 for the San Juan 30-6 Unit #048A well located approximately 650 feet northeast of the release area 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. Unnamed washes are located approximately 140 feet west-southwest and 230 feet northeast of the location. Based on this information, the location was assessed a ranking score of 20.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on November 21, 2012, and on November 26, 2012, Deborah Watson and Heather Woods of AES met with a CoP representative at 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 November 26, 2012, 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 VOCs and 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 8021B;
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 1.4 ppm in S-4 and S-5 up to 4.5 ppm in SC-1. Field TPH concentrations ranged from less than 20.0 mg/kg in S-1 and S-2 up to 62.0 mg/kg in S-3. The field chloride concentration in SC-1 was 60 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
San Juan 30-6 #475S BGT Closure, November 2012

<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>
NMOCB Action Level (NMAC 19.15.17.13E)			--	100	250
S-1	11/26/12	0.5	2.0	<20.0	NA
S-2	11/26/12	0.5	3.3	<20.0	NA
S-3	11/26/12	0.5	3.5	62.0	NA
S-4	11/26/12	0.5	1.4	20.7	NA
S-5	11/26/12	0.5	1.4	26.1	NA
SC-1	11/26/12	0.5	4.5	NA	60

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 78 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
San Juan 30-6 #475S BGT Closure, November 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth (ft)</i>	<i>Benzene (mg/kg)</i>	<i>BTEX (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
NMOCD Action Level (NMAC 19.15.17.13E)			0.2	50	250
SC-1	11/26/12	0.5	<0.050	<0.25	78

3.0 Conclusions and Recommendations

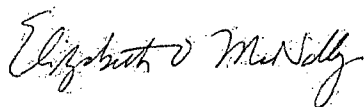
NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Field TPH concentrations were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-3 with 62.0 mg/kg. Chloride concentrations in SC-1 were below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended.

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

Sincerely,



Landrea Cupps
Environmental Scientist

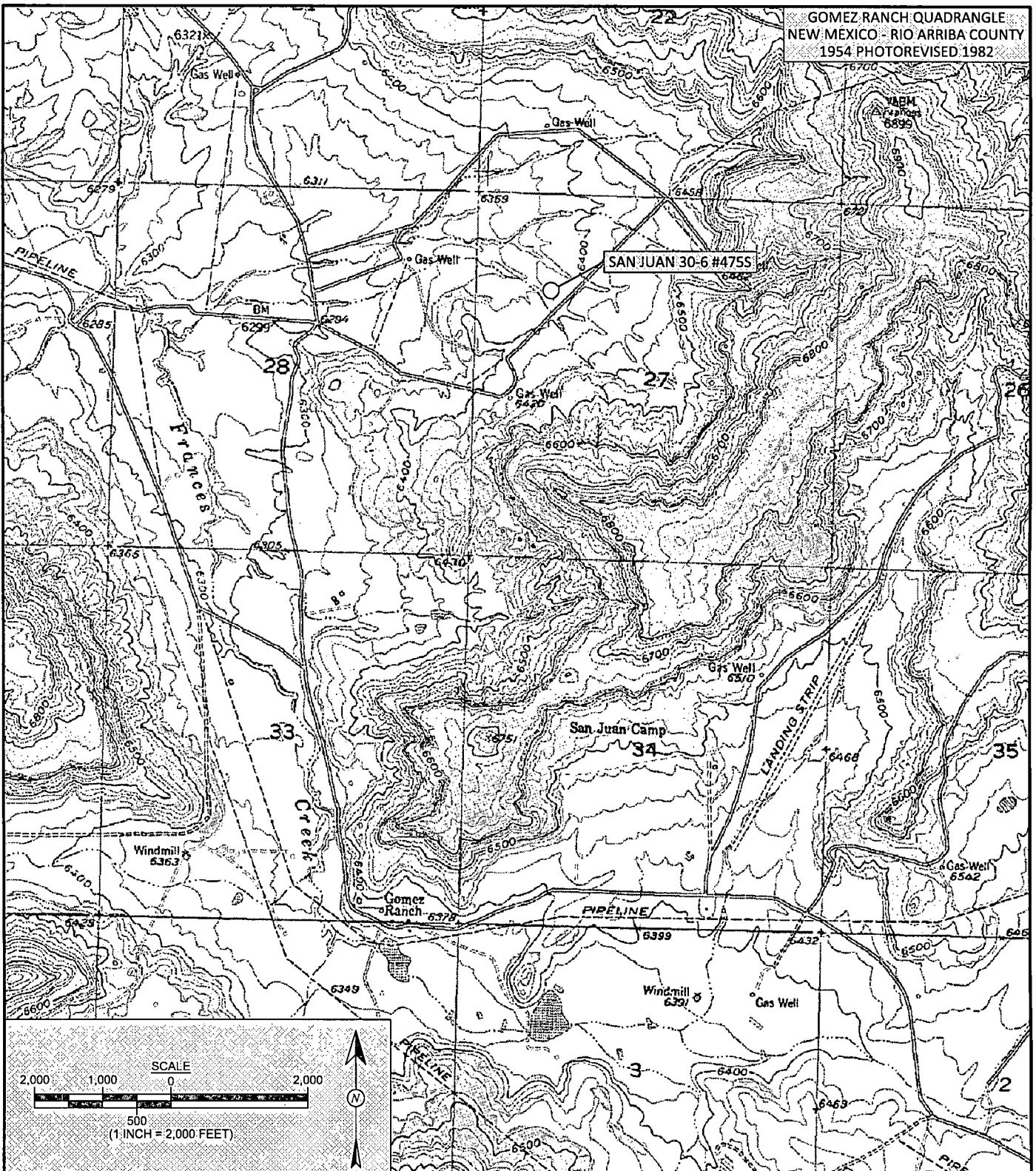


Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, November 2012
AES Field Screening Report 112612
Hall Analytical Report 1211937

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 30-6 #475S\SJ 30-6 #475S BGT Closure Report
010713.docx



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: November 27, 2012
REVISIONS BY: C. Lameman	DATE REVISED: December 21, 2012
CHECKED BY: D. Watson	DATE CHECKED: December 21, 2012
APPROVED BY: E. McNally	DATE APPROVED: December 21, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 30-6 #4755
RIO ARriba COUNTY, NEW MEXICO
SW¼ NW¼, SECTION 27, T30N, R6W
N36.78722, W107.45531

LEGEND

SAMPLE LOCATIONS

Field Screening Results				
Sample ID	Date	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		--	100	250
S-1	11/26/12	2.0	<20.0	NA
S-2	11/26/12	3.3	<20.0	NA
S-3	11/26/12	3.5	62.0	NA
S-4	11/26/12	1.4	20.7	NA
S-5	11/26/12	1.4	26.1	NA
SC-1	11/26/12	4.5	NA	60
SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED				

Laboratory Analytical Results						
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		0.2	50	100		250
SC-1	11/26/12	<0.050	<0.25	NA	NA	78
SAMPLE WAS ANALYZED PER EPA METHOD 8021B AND 300.0.						



AES

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: November 27, 2012	FIGURE 2 AERIAL SITE MAP BELOW GRADE TANK CLOSURE NOVEMBER 2012 ConocoPhillips SAN JUAN 30-6 #475S RIO ARriba COUNTY, NEW MEXICO SW¼ NW¼, SECTION 27, T30N, R6W N36.78722, W107.45531
REVISIONS BY: C. Lameman	DATE REVISED: December 21, 2012	
CHECKED BY: D. Watson	DATE CHECKED: December 21, 2012	
APPROVED BY: E. McNally	DATE APPROVED: December 21, 2012	

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

Client: ConocoPhillips

Project Location: San Juan 30-6 #475S

Date: 11/26/2012

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OMV (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	11/26/2012	12:30	North	2.0	NA	13:14	<20.0	20.0	1	DAW
S-2	11/26/2012	12:32	South	3.3	NA	13:17	<20.0	20.0	1	DAW
S-3	11/26/2012	12:33	East	3.5	NA	13:19	62.0	20.0	1	DAW
S-4	11/26/2012	12:34	West	1.4	NA	13:21	20.7	20.0	1	DAW
S-5	11/26/2012	12:35	Center	1.4	NA	13:24	26.1	20.0	1	DAW
SC-1	11/26/2012	12:40	Composite	4.5	60	Not Analyzed for TPH				

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.

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Debrah Wata



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

November 30, 2012

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

RE: CoP San Juan 30-6 #475S

OrderNo.: 1211937

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/27/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1211937

Date Reported: 11/30/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: CoP San Juan 30-6 #475S

Collection Date: 11/26/2012 12:40:00 PM

Lab ID: 1211937-001

Matrix: MEOH (SOIL)

Received Date: 11/27/2012 9:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	11/27/2012 12:33:46 PM
Toluene	ND	0.050		mg/Kg	1	11/27/2012 12:33:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/27/2012 12:33:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/27/2012 12:33:46 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	11/27/2012 12:33:46 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	78	30		mg/Kg	20	11/27/2012 12:44:30 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#: 1211937

30-Nov-12

Client: Animas Environmental Services

Project: CoP San Juan 30-6 #475S

Sample ID	MB-4988	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	4988	RunNo:	7130					
Prep Date:	11/27/2012	Analysis Date:	11/27/2012	SeqNo:	206741	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-4988	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	4988	RunNo:	7130					
Prep Date:	11/27/2012	Analysis Date:	11/27/2012	SeqNo:	206742	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211937

30-Nov-12

Client: Animas Environmental Services

Project: CoP San Juan 30-6 #475S

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R7111	RunNo:	7111					
Prep Date:		Analysis Date:	11/27/2012	SeqNo:	206725	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: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R7111	RunNo:	7111					
Prep Date:		Analysis Date:	11/27/2012	SeqNo:	206726	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.6	76.3	117			
Toluene	0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.3	77	116			
Xylenes, Total	3.0	0.10	3.000	0	99.6	76.7	117			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

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

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

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1211937
Received by/date:	<i>AF</i> <i>11/27/12</i>		
Logged By:	Michelle Garcia	11/27/2012 9:45:00 AM	<i>Michelle Garcia</i>
Completed By:	Michelle Garcia	11/27/2012 10:02:25 AM	<i>Michelle Garcia</i>
Reviewed By:	<i>mg</i> <i>[Signature]</i>		

Chain of Custody

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

Log In

- Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- 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)

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

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

- Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

[illegible]

If necessary, samples submitted to Hall Envir

mental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be y notated on the analytical report.