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

OIL CONS. DIV DIST. 3

DEC 2 3 2015

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

State of New Mexico

Energy Minerals and Natural Resources

Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR		Initial Report	\boxtimes	Final Report
Name of Company ConocoPhillips Company	Contact Lisa Hunter	6			
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9786	1.5	The State Law	1	
Facility Name: Blanco Wash Federal #1	Facility Type: Gas Well			1915	8 ¹
			A STREET STREET		

Surface Owner Federal

Mineral Owner Federal

API No. 3004507099

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

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County	
N	26	28N	09W	790	South	1700	West	San Juan	

Latitude 36.62791 Longitude -107.76122

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered None
Source of Release Below Grade Tank (BGT) – South BGT	Date and Hour of Occurrence Unknown	Date and Hour of Discovery January 28, 2014
Was Immediate Notice Given?	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached?	If YES, Volume Impacting the Wate N/A	ercourse.
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Below-Grade Tank Closure activities with field samples taken resulting	ng in constituents exceeded standard	s outlined by 19.15.17.13 NMAC.
Describe Area Affected and Cleanup Action Taken.* NMOCD action levels for releases are specified in NMOCD's Guidelin score of 20. Samples were collected and analytical results are below a final report is attached for review.	tes for Leaks, Spills and Releases an pplicable NMOCD action levels. No	d the release was assigned a ranking o further work will be performed. The
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate or the environment. In addition, NMOCD acceptance of a C-141 report do federal, state, or local laws and/or regulations.	te best of my knowledge and understan otifications and perform corrective act NMOCD marked as "Final Report" d contamination that pose a threat to gross not relieve the operator of respons	nd that pursuant to NMOCD rules and ions for releases which may endanger loes not relieve the operator of liability ound water, surface water, human health ibility for compliance with any other
Signature: Islu Life	OIL CONSERV	ATION DIVISION
Printed Name: Lisa Hunter	ipproved of Zarra emiliarian operand	brene
Title: Field Environmental Specialist	Approval Date: 20124205	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached
Date. Detember 21, 2015 Thome. (505) 520-9700		

* Attach Additional Sheets If Necessary

NVF153837838



February 27, 2014

Lindsay Dumas ConocoPhillips San Juan Business Unit Office 214-07 5525 Hwy 64 Farmington, New Mexico 87401 www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

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

RE: Below Grade Tank Closure Report Blanco Wash Federal #1 San Juan County, New Mexico

Dear Ms. Dumas:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with two below grade tank (BGT) closures at ConocoPhillips (CoP) Blanco Wash Federal #1, located in San Juan County, New Mexico. Removal of tanks had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Blanco Wash Federal #1 Legal Description – SE¼ SW¼, Section 26, T28N, R9W, San Juan County, New Mexico Well Latitude/Longitude – N36.62799 and W107.76091, respectively North BGT Latitude/Longitude – N36.62814 and W107.76122, respectively South BGT Latitude/Longitude – N36.62791 and W107.76122, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, January 2014

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the location was given a ranking score of 20 based on the following factors:

Lindsay Dumas Blanco Wash Federal #1 BGT Closure Report February 27, 2014 Page 2 of 6

- Depth to Groundwater: A cathodic protection report form dated December 1991 for the Lackey H #709, located 235 feet west and at the same elevation, reported the depth to groundwater as 110 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The tank locations are not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Blanco Wash is located approximately 190 feet northeast of the location. (20 points)

1.3 BGT Closure Assessment

AES was initially contacted by Dan Rudder, CoP representative, on January 28, 2014, and on January 29, 2014, Deborah Watson and Jesse Sprague of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner of each BGT. Four samples were collected from the perimeter of each BGT footprint, one sample was collected from the center of each BGT footprint, and one sample was composited from the four perimeter samples and one center sample of each BGT.

2.0 Soil Sampling

On January 29, 2014, AES personnel conducted field screening and collected ten soil samples (S-1 through S-10) and two 5-point composites (SC-1 and SC-2) from below the BGTs. Soil samples were collected from approximately 0.5 feet below the former BGTs for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil samples SC-1 and SC-2 were field screened for VOCs and chlorides and 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 photoionization 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.

Lindsay Dumas Blanco Wash Federal #1 BGT Closure Report February 27, 2014 Page 3 of 6

2.1.3 Chlorides

Soil samples SC-1 and SC-2 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 composite 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. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples SC-1 and SC-2 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Chloride per USEPA Method 300.0.

In addition, sample SC-2 was laboratory analyzed for:

 TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

North BGT field screening readings for VOCs via OVM ranged from 0.4 ppm in S-2 and SC-1 up to 1.0 ppm in S-3. Field TPH concentrations ranged from less than 20.0 mg/kg in S-1 and S-3 up to 69.4 mg/kg in S-2. The field chloride concentration in SC-1 was 80 mg/kg.

South BGT field screening readings for VOCs via OVM ranged from 0.7 ppm in S-6 and S-8 through S-10, up to 3.8 ppm in S-7. Field TPH concentrations ranged from 141 mg/kg in S-9 up to 2,440 mg/kg in S-7. The field chloride concentration in SC-1 was 80 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Reports are attached.

Lindsay Dumas Blanco Wash Federal #1 BGT Closure Report February 27, 2014 Page 4 of 6

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action L	evel (NMAC 19.	15.17.13E)	-	100	250
S-1 (North)	1/29/14	0.5	0.8	<20.0	NA
S-2 (North)	1/29/14	0.5	0.4	69.4	NA
S-3 (North)	1/29/14	0.5	1.0	<20.0	NA
S-4 (North)	1/29/14	0.5	0.5	30.3	NA
S-5 (North)	1/29/14	0.5	0.6	22.5	NA
SC-1 (North)	1/29/14	0.5	0.4	NA	80
S-6 (South)	1/29/14	0.5	0.7	636	NA
S-7 (South)	1/29/14	0.5	3.8	2,440	NA
S-8 (South)	1/29/14	0.5	0.7	512	NA
S-9 (South)	1/29/14	0.5	0.7	141	NA
S-10 (South)	1/29/14	0.5	0.7	388	NA
SC-2 (South)	1/29/14	0.5	1.2	NA	80

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results Blanco Wash Federal #1 BGT Closure, January 2014

NA - not analyzed

For SC-1, laboratory analytical results reported benzene and total BTEX concentrations as less than 0.036 mg/kg and 0.179 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. In SC-2, laboratory analytical results reported benzene and total BTEX concentrations as less than 0.030 mg/kg and 0.151 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 3.0 mg/kg and 74 mg/kg, respectively. The laboratory chloride concentration in SC-2 was less than the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. The laboratory analytical reports are attached.



Sample ID	Date	OVM- PID	TPH (ma/ka)	Chlorides	148.364	- Canada			The second		
	2	(ppm)	[mg/kg/	(mg/kg/	A CONTRACTOR OF THE OWNER	and the second	Laborato	ry Analytic	al Results	13.45	1
NMOCD ACT	TION LEVEL	-	100	250		1		Total	TPH -	TPH -	
S-1	1/29/14	0.8	<20.0	NA	Sample ID	Date	Benzene	BTEX	GRO	DRO	Chloride
S-2	1/29/14	0.4	69.4	NA		The second	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S-3	1/29/14	1.0	<20.0	NA	NMOCD AC	TION LEVEL	0.2	50	1	00	250
S-4	1/29/14	0.5	30.3	NA	SC-1	1/29/14	< 0.036	<0.179	NA	NA	<30
S-5	1/29/14	0.6	22.5	NA	SC-2	1/29/14	<0.030	<0.151	<3.0	74	<30
SC-1	1/29/14	0.4	NA	80	SAMPLE SC-	1 WAS ANAL	YZED PER EI	PA METHOE	8021B AND	D 300.0.	
S-6	1/29/14	0.7	636	NA	SAMPLE SC-	2 WAS ANAL	YZED PER EI	PAMETHOL	080218,80.	15D AND 30	0.0.
S-7	1/29/14	3.8	2,440	NA	a character				and the second	-	and later
S-8	1/29/14	0.7	512	NA	Calif Stor L.	1. 1. 1. 1. 1.	2.76	. 6.8	100	a state of	1. 题 写
S-9	1/29/14	0.7	141	NA	Sec.			- Mar		1. 44	No.
S-10	1/29/14	0.7	388	NA	3 Carlins				1.14	A CAL	A. 482.0
60.2	1/29/14	1.2	NA	80	A REAL PROPERTY.	a lais a film		Ser all a	2. Mar	1	L.L.M.
-1 IS A 5-PC IROUGH S-5 S-6 THROL A - NOT ANA	DINT COMPO 5. SC-2 IS A 5 JGH S-10. ALYZED	DSITE SAI	MPLE OF S- COMPOSIT	-1 E SAMPLE			- LANA	福代	ないの		
SC-2 -1 IS A 5-PC IROUGH S-5 S-6 THROU S-6 THROU S-0 TANA	DINT COMPO 5. SC-2 IS A S JGH S-10. ALYZED	DSITE SAI 5-POINT (MPLE OF S- COMPOSIT	-1 E SAMPLE BGT - N36 W107	5-5 5-4 .62814 .76122	5-1 5-3 5-2		No. No.	のないのである		





L SOURCE: © 2013 GOO	OGLE EARTH, AERIAL DATE: MAY 2,	2013
DRAWN BY: S. Glasses	DATE DRAWN: January 29, 2014	
REVISIONS BY: C. Lameman	DATE REVISED: January 29, 2014	1
CHECKED BY: D. Watson	DATE CHECKED: January 29, 2014	
APPROVED BY: E. McNally	DATE APPROVED: January 29, 2014	

BGT - N36.62791 W107.76122

FIGURE 2

AERIAL SITE MAP BELOW GRADE TANK CLOSURE JANUARY 2014 ConocoPhillips BLANCO WASH FEDERAL #1 SE¼ SW¼, SECTION 26, T28N, R9W SAN JUAN COUNTY, NEW MEXICO N36.62799, W107.76091

AES Field Screening Report

Client: ConocoPhillips

Project Location: Blanco Wash Federal #1

Date: 1/29/2014

Matrix: Soil



Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

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 (North)	1/29/2014	10:30	North	0.8	NA	11:19	9.48	20.0	1	DAW
S-2 (North)	1/29/2014	10:32	South	0.4	NA	11:22	69.4	20.0	1	DAW
S-3 (North)	1/29/2014	10:34	East	1.0	NA	11:25	14.7	20.0	1	DAW
S-4 (North)	1/29/2014	10:36	West	0.5	NA	11:27	30.3	20.0	1	DAW
S-5 (North)	1/29/2014	10:38	Center	0.6	NA	11:30	22.5	20.0	1	DAW
SC-1 (North)	1/29/2014	10:45	Composite	0.4	80		Not	Analyzed for Th	РН	
S-6 (South)	1/29/2014	12:01	North	0.7	NA	12:29	636	20.0	1	DAW
S-7 (South)	1/29/2014	12:02	South	3.8	NA	12:33	2,440	20.0	1	DAW
S-8 (South)	1/29/2014	12:03	East	0.7	NA	12:36	512	20.0	1	DAW
S-9 (South)	1/29/2014	12:04	West	0.7	NA	12:40	141	20.0	1	DAW
S-10 (South)	1/29/2014	12:05	Center	0.7	NA	12:44	388	20.0	1	DAW
SC-2 (South)	1/29/2014	12:10	Composite	1.2	80	1.16	Not .	Analyzed for Th	РН	

DFDilution FactorNANot AnalyzedNDNot Detected at the Reporting LimitPQLPractical Quantitation Limit*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 Water

Page 2 Report Finalized: 1/29/14



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

February 04, 2014

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

RE: CoP Blanco Wash Federal #1 South BGT

OrderNo.: 1401B76

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/30/2014 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1401B76

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/4/2014 Client Sample ID: SC-1 SC-2 South DAW

CLIENT: Animas EnvironmentalProject:CoP Blanco Wash Federal #1 South BGTLab ID:1401B76-001Matrix: MEOH (SOIL)

Collection Date: 1/29/2014 12:10:00 PM Received Date: 1/30/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS	and to be		100	Analyst	BCN
Diesel Range Organics (DRO)	74	10	mg/Kg	1	1/30/2014 3:49:43 PM	11455
Surr: DNOP	83.2	66-131	%REC	1	1/30/2014 3:49:43 PM	11455
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	JMP
Gasoline Range Organics (GRO)	ND	3.0	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Surr: BFB	90.8	74.5-129	%REC	1	1/30/2014 11:31:59 AM	R16396
EPA METHOD 8021B: VOLATILES					Analyst	JMP
Benzene	ND	0.030	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Toluene	ND	0.030	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Ethylbenzene	ND	0.030	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Xylenes, Total	ND	0.061	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	1/30/2014 11:31:59 AM	R16396
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	1/30/2014 12:41:54 PM	11489

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 1 of 5
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B76 04-Feb-14

Client: Anim Project: CoP	as Environmental Blanco Wash Federal #1 South BGT
Sample ID MB-11489 Client ID: PBS Prep Date: 1/30/2014	SampType: MBLK TestCode: EPA Method 300.0: Anions Batch ID: 11489 RunNo: 16422 Analysis Date: 1/30/2014 SeqNo: 473554 Units: mg/Kg
Analyte Chloride	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual ND 1.5
Sample ID LCS-11489 Client ID: LCSS Prep Date: 1/30/2014	SampType: LCS TestCode: EPA Method 300.0: Anions Batch ID: 11489 RunNo: 16422 Analysis Date: 1/30/2014 SeqNo: 473555 Units: mg/Kg
Analyte Chloride	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 14 1.5 15.00 0 91.9 90 110

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 for VOA and TOC only.
- RL Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B76

Qual

Qual

Qual

04-Feb-14

Client: Project:	Anima CoP E	as Environmental Blanco Wash Fede	ral #1 South B	GT					
Sample ID	LCS-11455	SampType:	LCS	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics
Client ID:	LCSS	Batch ID:	11455	F	RunNo: 1	6383			
Prep Date:	1/29/2014	Analysis Date:	1/30/2014	5	SeqNo: 4	73042	Units: mg/K	g	
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Diesel Range (Organics (DRO)	40	10 50.00	0	79.4	60.8	145		
Surr: DNOP	2912	4.2	5.000		84.4	66	131		
Sample ID	MB-11441	SampType:	MBLK	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics
Client ID:	PBS	Batch ID:	11441	F	unNo: 10	6383			
Prep Date:	1/28/2014	Analysis Date:	1/30/2014	5	eqNo: 4	73349	Units: %RE	С	
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Surr: DNOP		8.5	10.00		84.9	66	131		
Sample ID	LCS-11441	SampType:	LCS	Tes	Code: EF	PA Method	8015D: Diese	el Range C	Organics
Client ID:	LCSS	Batch ID:	11441	F	unNo: 10	6383			
Prep Date:	1/28/2014	Analysis Date:	1/30/2014	S	eqNo: 4	73351	Units: %RE	С	
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Surr: DNOP		3.9	5.000		78.6	66	131		
Sample ID	MB-11455	SampType:	MBLK	Tes	Code: EF	PA Method	8015D: Diese	al Range C	Organics
Client ID:	PBS	Batch ID:	11455	R	unNo: 16	6383			
Prep Date:	1/29/2014	Analysis Date:	1/30/2014	S	eqNo: 47	73541	Units: mg/K	q	

Prep Da mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD RPDLimit Qual Analyte Result LowLimit Diesel Range Organics (DRO) ND 10 Surr: DNOP 8.0 10.00 80.3 66 131

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- Р Sample pH greater than 2 for VOA and TOC only.
- RL **Reporting Detection Limit**

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B76 04-Feb-14

Client:Animas EnvironmentalProject:CoP Blanco Wash Federal #1 South BGT

Sample ID MB-11468 MK	SampT	Type: MI	BLK	Tes	TestCode: EPA Method 8015D: Gasoline Ran				e	
Client ID: PBS	Batc		6396	F	RUNNO: 1	6390				
Prep Date:	Analysis E	Date: 1/	30/2014	5	SeqNo: 4	73261	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0		1.1.1				And a start		
Surr: BFB	900		1000	1.5	90.4	74.5	129	1111	1945	1.2
Sample ID LCS-11468 MK	SampT	Type: LC	s	TestCode: EPA Method 8015D: Gasoline Range				e		
Client ID: LCSS	Batcl	h ID: R1	6396	F	RunNo: 1	6396				
Prep Date:	Analysis E	Date: 1/	30/2014	5	SeqNo: 4	73262	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	74.5	126	362	1.0	16.5
Surr: BEB	970		1000		97.4	74.5	129			

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 for VOA and TOC only.
- RL Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B76

04-Feb-14

Client:	Animas Environmental
Project:	CoP Blanco Wash Federal #1 South BGT

Sample ID MB-11468 MK	Samp	Туре: МІ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		-
Client ID: PBS	Batc	h ID: R1	6396	F	RunNo: 1	6396				
Prep Date:	Analysis [Date: 1/	30/2014	5	SeqNo: 4	73287	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050		1. S.						1.2
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120	T.		S. La
Sample ID LCS-11468 MK	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles	1.4	11.01
Client ID: LCSS	Batc	h ID: R1	6396	F	RunNo: 1	6396				
Prep Date:	Analysis [Date: 1/	30/2014	5	SeqNo: 4	73288	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	80	120			
foluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Kylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

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 for VOA and TOC only.
- RL Reporting Detection Limit

Page 5 of 5

Client Name: Animas Environmental Work Ørder Number: 1401B76 RopiNo: 1 Received by/date: Michelle Garcia 1/30/2014 10:00:00 AM Michelle Garcia 1/30/2014 10:28:34 AM Completed By: Michelle Garcia 1/30/2014 10:28:34 AM Michelle Garcia 1/30/2014 10:28:34 AM Reviewed By: TO o1/30/14 O Michelle Garcia 1/30/2014 10:28:34 AM Reviewed By: TO o1/30/14 Caurio Reviewed By: No Not Present 1 Custody Ol/30/14 Yes No Not Present No 2. Is Chein of Custody Completed By: Mo Not Present No Not Present No 3. How was the sample delivered? Couriar Couriar No No No No No 4. Was an attempt made to cool the samples? Yes No No NA S 5. Were all samples received at a temperature of >0° C to 8.0°C Yes No NA S 7. Sufficient sample volume for indicated test(s)? Yes No No No S 8. Are samples (except VOA and ONG) propery p	HALL Hall Environmental ANALYSIS LABORATORY TEL: 505 Website	onmental Analysis Labor 4901 Hawkin Albuquerque, NM 8 345-3975 FAX: 505-345 :: www.hallenvironmenta	atory ns NE 87109 4107 11.com	ple Log-In Ch	eck List
Received by/date: If you	Client Name: Animas Environmental Work Order	Number: 1401B76		RcptNo:	1
Logge By: Michelle Garcia 1/30/2014 10:20:34 AM <i>Michelle Garcia</i> Completed By: I/O 0/30/14 10:20:34 AM <i>Michelle Garcia</i> Reviewed By: I/O 0/30/14 10:20:34 AM <i>Michelle Garcia</i> 1. Custody Chain of Custody <i>ol (30/14</i> 1. Custody seels 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 Load In NA 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 NA 7. Sufficient sample volume for indicated test(s)? Yes No NA 9. Was preservative added to bottles? Yes No No No VOA Vials 10. VOA vials have zero headspace? Yes No No If or preserved botise checked 11. Were any sample	Received by/date:	[1 9	minul		
Completed By: IC 01/30/014 10:28:34 AM IP (Poble Cipure) Reviewed By: IC 01/30/014 10:28:34 AM IP (Poble Cipure) Chain of Custody 1. Custody seals intact on sample bottles? Yes IV No Not Present IV 1. Custody seals intact on sample bottles? Yes IV No Not Present IV No Not Present IV 2. Is Chain of Custody complete? Yes IV No No Not Present IV 3. How was the sample delivered? Courier Courier Log In 4. Was an attempt made to cool the samples? Yes IV No NA 5. Were all samples received at a temperature of >0° C to 6.0°C Yes IV No NA 6. Sample(s) in proper container(s)? Yes IV No NA 7. Sufficient sample volume for indicated test(s)? Yes IV No NA 9. Was preservative added to bottles? Yes IV No No IVA NA 10. VOA vials have zero headspace? Yes IV No IVA IV 11. Were any sample containers received broken? Yes IV No Adjusted? Adjusted? 12. Does papervork match bottis labels?	Logged By: Michelle Garcia 1/30/2014 10:0	00:00 AM	min qu	inte	
Reviewed By: O OI [30]/4 Chain of Custody 1. Custody seals intact on sample bottles? Yes No Not Present 1. Custody seals intact on sample bottles? Yes No Not Present No 2. Is Chain of Custody complete? Yes No Not Present No 3. How was the sample delivered? Courier Log In	Completed By: Michelle Garcia 1/30/2014 10::	26:34 AM	" finalls Ga	we	
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	Reviewed By: <u>TO</u> 01/30/14				· ····
1. Custody seals intact on sample bottles? Yes No Not Present M 2. Is Chain of Custody complete? Yes No Not Present Mot Present 3. How was the sample delivered? Courier Log In	Chain of Custody				
2. Is Chain of Custody complete? Yes No Not Present [] 3. How was the sample delivered? Courier Log In	1. Custody seals intact on sample bottles?	Yes	No [Not Present	
3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes Y No ! NA 5. Were all samples received at a temperature of >0° C to 6.0°C Yes Y No . NA 6. Sample(s) in proper container(s)? Yes Y No . NA 7. Sufficient samples volume for indicated test(s)? Yes Y No . . 8. Are samples (except VOA and ONG) properly preserved? Yes Y No . . 9. Was preservative added to bottles? Yes I No . . . 10. VOA visits have zero headspace? Yes I No 11. Were any sample containers received broken? Yes IV No 12. Does paperwork match bottle labels? Yes IV No . .	2. Is Chain of Custody complete?	Yes M	No []	Not Present	
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 NA 7. Sufficient sample volume for indicated test(s)? Yes No NA 8. Are samples (except VOA and ONG) property preserved? Yes No NA 9. Was preservative added to bottles? Yes No NA 10.VOA vials have zero headspace? Yes No No NA 11. Were any sample containers received broken? Yes No No No VOA Vials structure 12. Does paperwork match bottle labels? Yes No If of preserved bottles checked for pri: (<2 or >12 unless Adjusted?) 13. Are matrices correctly identified on Chain of Custody? Yes No If of preserved bottles checked by: 15. Were all holding times able to be met? Yes No No Ichecked by: 14. Is it clear what analyses were requested? Yes No No Checked by: 15. Were all holding times able to be met? Yes No No Na	3. How was the sample delivered?	Courier			
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 NA 7. Sufficient sample volume for indicated test(s)? Yes No NA 8. Are samples (except VOA and ONG) properly preserved? Yes No NA 9. Was preservative added to bottles? Yes No NA 10.VOA vials have zero headspace? Yes No No NA 11. Were any sample containers received broken? Yes No No No VOA Vials * 12. Does paperwork match bottle labels? Yes No No Preserved bottles checked for pht: (<cor> (Note discrepancies on chain of custody) Yes No Preserved holding times able to be met? Yes No Checked by: 14. Is it clear what analyses were requested? Yes No Checked by: Checked by: 15. Were all holding times able to be met? Yes No Na Ma 16. Was client notified of all discrepancies with this order? Yes No Na Ma</cor>	Log In				
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 No 7. Sufficient sample volume for indicated test(s)? Yes No No 8. Are samples (except VOA and ONG) properly preserved? Yes No NA 9. Was preservative added to bottles? Yes No NA 10. VOA vials have zero headspace? Yes No No 11. Were any sample containers received broken? Yes No No 12. Does paperwork match bottle labels? Yes No If preserved bottles checked 12. Does paperwork match bottle labels? Yes No If or preserved bottles checked 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 14. Is it clear what analyses were requested? Yes No Checked by: 15. Were all holding times able to be met? Yes No Na 16. Was client notified of all discrepancies with this order? Yes No Na Person Notified: Date: Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: Via: eMail Phone Fax	4. Was an attempt made to cool the samples?	Yes V	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 10.VOA viais have zero headspace? Yes No No 11. Were any sample containers received broken? Yes No No VOA Viais 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 14. Is it clear what analyses were requested? Yes No Checked by: Checked by: (if no, notify customer for authorization.) Yes No Na Ma Special Handling (If applicable) Id. Was client notified: Date: In Person In Person 16. Was client notified: Date: Via: eMail Phone Fax In Person Regarding: Client Instructions: Via: eMail Phone Fax In Person	5. Were all samples received at a temperature of >0° C to 6.0	D°C Yes 🗹	No 🗔	NA 🗔	
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 10.VOA vials have zero headspace? Yes No 11. Were any sample containers received broken? Yes No 12. Does paperwork match bottle labels? Yes No (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? Yes No (if no, notify customer for authorization.) Yes No 16. Was client notified: By Whom: Date: Person Notified: By Whom: Via: eMail Person Notified: Date: By Whom: Client Instructions:	6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) properly preserved? Yes No 9. Was preservative added to bottles? Yes No 10.VOA vials have zero headspace? Yes No 11. Were any sample containers received broken? Yes No 12. Does paperwork match bottle labels? Yes No (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? Yes No (If no, notify customer for authorization.) Yes No 16. Was client notified of all discrepancies with this order? Yes No No Na Ma Person Notified: By Whom: Regarding: Client Instructions: Via: eMail Phone Fax In Person No Na Ma M	7. Sufficient sample volume for indicated test(s)?	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 No VOA Vials *. 12. Does paperwork match bottle labels? Yes No If of preserved bottles checked for pH: (Note discrepancies on chain of custody) Yes No If of preserved bottles checked? 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 14. Is it clear what analyses were requested? Yes No Checked by: 16. Were all holding times able to be met? Yes No Checked by: (If no, notify customer for authorization.) Special Handling (If applicable) Na If of preserved 16. Was client notified: Date: Date: Date: Date: Date: In Person Regarding: Client Instructions: Via: eMail Phone Fax In Person	8. Are samples (except VOA and ONG) properly preserved?	Yes 🖌	No 17		
10. VOA vials have zero headspace? Yes No No VOA Vials M 11. Were any sample containers received broken? Yes No # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? Yes No Image: Containers received broken? Yes 12. Does paperwork match bottle labels? Yes No Image: Containers received bottles checked for pH: (<2 or >12 unless 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 14. Is It clear what analyses were requested? Yes No Checked by: 15. Were all holding times able to be met? Yes No Checked by: (If no, notify customer for authorization.) Yes No Na Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Yes No NA Person Notified:	9. Was preservative added to bottles?	Yes	No 💉	NA	
11. Were any sample containers received broken? Yes No # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? Yes No # of preserved bottles checked for pH: (Note discrepancies on chain of custody) Yes No Adjusted? 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 14. Is it clear what analyses were requested? Yes No Adjusted? 15. Were all holding times able to be met? Yes No Checked by: (if no, notify customer for authorization.) Yes No NA Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Yes No NA Person Notified:	10.VOA vials have zero headspace?	Yes	No	No VOA Vials 💉	
12. Does paperwork match bottle labels? Yes No Potpleserved 12. Does paperwork match bottle labels? Yes No Interserved 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 14. Is it clear what analyses were requested? Yes No Adjusted? 15. Were all holding times able to be met? Yes Yes No Checked by: (If no, notify customer for authorization.) Yes No No Na Special Handling (if applicable) Is order? Yes No NA 16. Was client notified of all discrepancies with this order? Yes No NA In Person Person Notified: Date:	11. Were any sample containers received broken?	Yes 🛄	No 🔽	# of procepted	• • • • • • • • • •
12. Does paperwork match bottle labels? Yes Yes No for pH: (<2 or >12 unless (Note discrepancies on chain of custody) Yes Yes No Adjusted? 13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 14. Is it clear what analyses were requested? Yes Yes No Adjusted? 15. Were all holding times able to be met? Yes Yes No Checked by: (If no, notify customer for authorization.) Yes No No No Special Handling (If applicable) If applicable No Na Yes 16. Was client notified of all discrepancies with this order? Yes No Na Yes Person Notified:		_	_	bottles checked	
13. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 14. Is It clear what analyses were requested? Yes No Adjusted? 15. Were all holding times able to be met? Yes No Checked by: (if no, notify customer for authorization.) Yes No No Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client Instructions:	12. Does paperwork match bottle labels?	Yes 🗹	No II	for pH:	>12 unless noted)
14. Is it clear what analyses were requested? Yes 15. Were all holding times able to be met? Yes 15. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Yes No Checked by: Person Notified: By Whom: Regarding: Client Instructions: Yes No Checked by: No Checked b	13 Are matrices correctly identified on Chain of Custody?	Yes V	No 🗆	Adjusted?	1
15. Were all holding times able to be met? (If no, notify customer for authorization.) Yes iv No Checked by: Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Yes No NA V Person Notified: By Whom: Regarding: Client Instructions: Date: Via: eMail Phone Fax In Person	14 Is it clear what analyses were requested?	Yes M	No 🗔		
Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No NA Ma Person Notified: Date: Date	15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🔽	No	Checked by:	····
16. Was client notified of all discrepancies with this order? Yes No No NA V Person Notified: By Whom: Regarding: Client Instructions:	Special Handling (if applicable)				
Person Notified: Date: By Whom: Via: Regarding: Client Instructions:	16. Was client notified of all discrepancies with this order?	Yes	No 🗀	NA 🗹	
By Whom: Via: eMail Phone Fax In Person Regarding: In Person In Person In Person In Person Client Instructions: In Person In Person In Person	Person Notified:	Date:	Concert Construction and the		
Client Instructions:	By Whom: Regarding:	Via: eMail	Phone 📑 Fax	In Person	
	Client Instructions:			danlah di king king di king di king di king di	
17. Additional remarks:	17. Additional remarks:	** ** *** **			
18. <u>Cooler Information</u> Cooler No Temp C Condition Seal Intact Seal No Seal Date Signed By	18. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Intact Sea	al No Seal Date	Signed By		

Page 1 of 1

Chain-ot-Custody Record																_	_				
Client:	Services IIC Project Name: C. P. Reush Same day									A		LL AL v.hal	EI YS	NV SIS	FIF		NN 30	RA	TO	AL	r
Mailing	Address	624	East Comarchy	Cot a	arco Was	South RCT		49	01 H	awki	ins N	IE -	Alb	ouque	erqu	e, Ni	M 87	109			
F	imin	yton,	NM	Project #:	5	Contra Desi	Cet.	Te	el. 50	5-34	5-39	975	F	ax	505-	345-	410	7	14	1	
Phone #	#:	U 50	5 564 2281									A	naly	ysis	Req	uest	t			1	
email or	r Fax#:			Project Mana	iger:		(1)	VIno	*					304)	s	14 L		3	1		
QA/QC I	Package: dard		Level 4 (Full Validation)	D.	Watson		3 (802	(Gas (RO		1	SIMS)		,PO4,S	2 PCB			lond			
Accredi	tation AP	Other	r	Sampler: On Ice:	Yes	D No		+ TPH	00	18.1)	(04.1)	8270		O3,NO	s / 808.		(A)	Ch			or N)
	(Type)			Sample Tem	perature: /	.5		LBE	9	od 4	od 5	10 or	etals	CI'N	cide	(A)	i-Vo	0			2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	-ĤEAL No. 1401871.	BTEX +	BTEX + M	TPH 8015E	TPH (Meth	EDB (Meth	PAH's (831	RCRA 8 M	Anions (F,(8081 Pesti	8260B (VO	8270 (Sem	ED.			Air Bubble
29-14	1210	Soil	5C-1	for Jos MOH hit	MROW	-001	X	-	X									+			
Date:	Time:	Relinquishe	ad by: -2-5/1	Received by:	ibet	Date Time 1/30/14/636	Rer	mark	s: F	3111	+0 523	5	G	us vs	6 5:	Phil	itip	5			
30/14	648	1 Air	+ Walt	Kmin	ufa	01/38/14 1000	Co	10:00	1:50	Sha	5 1	m2	slle		Ar	es l	y:	D.	Pro	ldes	F .

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

February 03, 2014

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

RE: CoP Blanco Wash Federal #1 North BGT

OrderNo.: 1401B77

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/30/2014 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 <u>www.hallenvironmental.com</u> 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 qualifers 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1401B77 Date Reported: 2/3/2014

CLIENT: Animas Environmental **Project:** CoP Blanco Wash Federal #1 North BGT

Client Sample ID: SC-1

Collection Date: 1/29/2014 10:45:00 AM

Matrix: MEOH (SOIL) Lab ID: 1401B77-001

Received Date: 1/30/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES	1				Analyst:	JMP
Benzene	ND	0.036	mg/Kg	1	1/30/2014 12:00:34 PM	R16396
Toluene	ND	0.036	mg/Kg	1	1/30/2014 12:00:34 PM	R16396
Ethylbenzene	ND	0.036	mg/Kg	1	1/30/2014 12:00:34 PM	R16396
Xylenes, Total	ND	0.071	mg/Kg	1	1/30/2014 12:00:34 PM	R16396
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	1/30/2014 12:00:34 PM	R16396
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	1/30/2014 12:54:18 PM	11489

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 1 of 3
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B77 03-Feb-14

Client: Project:	Animas E CoP Blar	Environmen Ico Wash F	ntal Federal	#1 North B	GT				1	1 SAL	
Sample ID MB-1 Client ID: PBS Prep Date: 1/3	11489 0/2014	SampT Batch Analysis D	ype: Mi ID: 11 ate: 1/	3LK 489 /30/2014	Tes F S	tCode: E RunNo: 1 SeqNo: 4	PA Method 6422 73554	300.0: Anion Units: mg/H	is (g		
Analyte	1643	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5				13-3-				
Sample ID LCS	-11489	SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID: LCS	S	Batch	ID: 11	489	F	RunNo: 1	6422				
Prep Date: 1/3	0/2014	Analysis D	ate: 1/	30/2014	5	SeqNo: 4	73555	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.9	90	110			-

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 for VOA and TOC only.
- RL Reporting Detection Limit

Page 2 of 3

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B77

03-Feb-14

Client: Animas Environmental

Project: CoP Blanco Wash Federal #1 North BGT

Sample ID MB-11468 MK	Samp	Type: MI	BLK	Tes	PA Method	d 8021B: Volatiles								
Client ID: PBS	Batc	h ID: R1	6396	F	RunNo: 1	6396								
Prep Date:	Analysis [Date: 1/	30/2014	S	SeqNo: 4	73287	Units: mg/k	٢g						
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		102	80	120	2.11						
Sample ID LCS-11468 MK	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles						
Client ID: LCSS	Batc	h ID: R1	6396	F	RunNo: 1	6396								
Prep Date:	Analysis [Date: 1/	30/2014	S	SeqNo: 4	73288	Units: mg/k	٢g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.0	0.050	1.000	0	104	80	120							
Foluene	1.1	0.050	1.000	0	105	80	120							
Ethylbenzene	1.1	0.050	1.000	0	107	80	120							
Xylenes, Total	3.2	0.10	3.000	0	106	80	120							
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120							

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 for VOA and TOC only.
- RL Reporting Detection Limit

Page 3 of 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 F Website: www.hall	nalysis 4901 uerque AX: 50 enviros	Labora Hawkin 2, NM 8 05-345- nmental	atory as NE 7109 S 4107 L.com	am	ple Log-In Ch	neck List
Client Name: Animas Environmental	Work Order Number:	14018	77			RcptNo:	1
Received by/date: MG Logged By: Michelle Garcia	01/30/14.		-	minu	L Ga	nui	1
Completed By: Michelle Garcia	1/30/2014 10:33:03 AM			minu	L Ca	nuia	
Reviewed By: IO	01/30/14						
Chain of Custody	· ·						
1. Custody seals intact on sample bottles?		Yes		No		Not Present M	
2. Is Chain of Custody complete?		Yes		No		Not Present	
3. How was the sample delivered?		Cour	ier				
Log In							
4. Was an attempt made to cool the samples?		Yes	1	No	1.1	NA '	
						1.13	
5. Were all samples received at a temperature of	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	2	No	13		
9. Was preservative added to bottles?		Yes	[]]	No	~	NA 1 :	
10.VOA vials have zero headspace?		Yes	1.1	No	ί.	No VOA Vials 🖌	
11. Were any sample containers received broken	n?	Yes	i.]	No	1	# of proconind	
12 Does nanenwork match bottle labels?		Yes		No		bottles checked for pH:	
(Note discrepancies on chain of custody)						(<2 0	r >12 unless not
13. Are matrices correctly identified on Chain of 0	Custody?	Yes	\checkmark	No		Adjusted?	
14. Is it clear what analyses were requested?		Yes		No	1.1		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	2	No	1	Checked by:	
Special Handling (if applicable)							
16. Was client notified of all discrepancies with th	nis order?	Yes		No	[7	NA M	
Person Notified:	Date:			and the second second second	C.Combiner		
By Whom:	Via:	eMa	ail 🗖	Phone	Fax	In Person	1.1.1
Regarding:	IRACIDO DISTINCTION CONTRACTOR		and I	All and the second s	-	CONCERNMENT AND ADDRESS	1
Client Instructions:	an a	ANGCACAG					
17 Additional competen				().*) .*			1.
18. Cooler Information							
Cooler No Temp C Condition Se	al Intact Seal No. S	eal Da	ate .	Signed I	By.		
1 1.5 Good Yes							

Page 1 of 1

Client: Mailing Phone :	Anin Address Pam #: 50	nais En vices "624 numetro 5 56	E Comanche NY: ronmental W. E Comanche NY 4 2281	Record Standard Versen Same day Project Name: Nanche CoP Blanco Wash Federal #1 B6-T Project #: BL							HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request												
email o QA/QC I XStan Accredi	r Fax#: Package: dard itation		Level 4 (Full Validation)	Project Mana D. Wa	Project Manager: D. Watson Sampler: DW/JS						-	(SINS)		O2, PO4, SO4)	382 PCB's			lie					
	AP	□ Othe	r	On Ice	No No	# +	HT + =	SRO /	418.1	504.1	or 827	s	N'ON	es / 8((YO	lere			or N			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO HEALNO	BTEX + HEE	BTEX + MTBE	TPH 8015B (C	TPH (Method	EDB (Method	PAH's (8310 c	RCRA 8 Meta	Anions (F,CI,N	8081 Pesticide	8260B (VOA)	8270 (Semi-V	300.0 Ch			Air Bubbles (Y		
-29-14	1045	Soul	Sc-1	1-40-2 Meolitik	Meot	-00)	X											X	1		Ē		
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Date: 36/14 36/14 36/14	Time: 1030 Time: 1046	Relinquishe Dur Relinquishe MM	Watter	Received by: Date Time Date Time					s: 78 351 71/17 Sas	nU + 662	7 (3	pillo	rcoP ,	u a A	yis set: denu rea i	Berly	nale : D.	kui	ıden				

Lindsay Dumas Blanco Wash Federal #1 BGT Closure Report February 27, 2014 Page 5 of 6

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)		
	NMOCD Act (NMAC 19.1	ion Level 5.17.13E)	0.2	50	1	00	250
SC-1 (North)	1/29/14	0.5	<0.036	<0.179	NA	NA	<30
SC-2 (South)	1/29/14	0.5	<0.030	<0.151	<3.0	74	<30

Table 2. Soil Laboratory Analytical Results Blanco Wash Federal #1 BGT Closure. January 2014

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. For the north BGT, field TPH concentrations were below the NMOCD action level, with the highest concentration reported in S-2 with 69.4 mg/kg. For the south BGT, field TPH concentrations were reported above the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-7 with 2,440 mg/kg. However, laboratory analytical results for TPH (as GRO/DRO) in SC-2 were reported below the NMOCD action level of 100 mg/kg. Benzene and total BTEX concentrations in SC-1 and SC-2 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 and SC-2 were also 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 at Blanco Wash Federal #1.

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

Sincerely,

Davil g Rem

David J. Reese Environmental Scientist

Elizabeth o Mindly

Elizabeth McNally, P.E.

Lindsay Dumas Blanco Wash Federal #1 BGT Closure Report February 27, 2014 Page 6 of 6

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, January 2014 AES Field Screening Report 012914 Hall Analytical Report 1401B76 Hall Analytical Report 1401B77

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ConocoPhillips

Rec	amation	Form:	•
N 8,80 801	OF H B H OF OF O B H		

Date: 10-1-15	· · · · · · · · · · · · · · · · · · ·
Well Name: FLOBARICE 28	
Footages	ier:
Section: 21 , T- 30 -N, R- 69 -W, County: San Juan Sta	ite: <u>nom</u>
Reclamation Contractor: JO RITER	
Reclamation Start Date: 9-25-15	Contract Million
Reclamation Complete Date: 10-1-15	·
Road Completion Date: 10-1-15	
Seeding Date: 10-1-15	
**PIT MARKER STATUS (When Required): Picture of Marker set	t needed
MARKER PLACED : 10-7-15	(DATE)
LATATUDE: 36° 47.672 N	
LONGITUDE: 1070 47. 205 W	
Pit Manifold removed 9-28-15	(DATE)
Construction Inspector: JERREIL BASSETT Date:	10-1-15
Inspector Signature: Semel Barret	
Office Use Ónly: Subtask DSM Folder Pictu	l'es
Revised 6/14/2012	