State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to a accord

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

	San	ita Fe	<u>, NM 875</u>	05							
Releas	e Notifica	ation	and Co	orrective A	ction	<u> </u>					
			<b>OPERA</b>	ГOR		🔲 Initia	ıl Report 🛛 🛛 Final Re				
Name of Company Burlington Resources, a Owned Subsidiary of ConocoPhillips Co	a Wholly ompany	(	Contact Ash	ley Maxwell							
Address 3401 E. 30 <sup>th</sup> St., Farmington, NM	87402	,	Telephone No. 505-324-5169								
Facility Name: Wilson #2			Facility Type: Gas Well								
Surface Owner: Federal	Mineral Ou	uner'	Federal				3004523730				
Surface Owner. Tederal	Winicial Ow	vii01.	i cuciai			Lease N	. 5004323750 Io. NM-0702				
	LOCAT	LION	NOF REI	FASE							
Unit Letter Section Township Range Fe	et from the	North/	South Line	Feet from the	East/W	est Line	County				
G 31 29N 10W	1635'	ו	North	1550'	E	Cast	San Juan				
]	Latitude 36.6	58524	Longitud	e -107.92137							
	NATU	JRE	OF RELI	EASE.							
Type of Release - Unknown Produced Eluids			Volume of	Release - Unkno	wn	Volume R	lecovered				
Source of Release – Below Grade Tank			Date and H	lour of Occurrenc	e-	Date and	Hour of Discovery				
Was Immediate Notice Given?			Unknown	Whom?							
Yes No	o 🛛 Not Req	uired					KUVD HUG 5 12				
By Whom?			Date and H	lour		·	<del>OIL CONS. DIV</del>				
Was a Watercourse Reached?			If YES, Vo	lume Impacting t	he Water	rcourse.	DIST. 3				
🗌 Yes 🛛 No	0		}								
If a Watercourse was Impacted, Describe Fully.*			L								
Describe Cause of Problem and Remedial Action Tal	ken.* Below C	Grade	Tank Closu	re Activities							
Describe Area Affected and Cleanup Action Taken *	k						·······				
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June 15, 2012

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3274

Ashley Maxwell ConocoPhillips San Juan Business Unit Office 216-2 5525 Hwy 64 Farmington, New Mexico 87401

## RE: Wilson #2 Below Grade Tank Closure Report San Juan County, New Mexico

Dear Ms. Maxwell:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) Wilson #2, 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 – Wilson #2 Legal Description - SW¼ NE¼, Section 31, T29N, R10W, San Juan County, New Mexico Well Latitude/Longitude - N36.68541 and W107.92200, respectively BGT Latitude/Longitude - N36.68541 and W107.92192, respectively Land Jurisdiction - Bureau of Land Management (BLM) Figure 1 - Topographic Site Location Map Figure 2 - General Site Map, May 2012

## 1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no prior ranking information was located. Additionally, the New Mexico Office of the State Engineer (NMOSE) database was reviewed, and no registered water wells are located within 1,000 feet of the location. Once on site, AES personnel furthered 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 between 50 and 100 feet below ground surface (bgs), and the location is not within a well-head protection area. Distance to the

Ashley Maxwell Wilson #2 BGT Closure Report June 15, 2012 Page 2 of 5

nearest surface water, Tom Gale Canyon, is located 650 feet to the west. The site was assessed a NMOCD ranking of 20.

### 1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on May 16, 2012, and on the same day, Corwin Lameman and Deborah Watson of AES met with a CoP representative at the location.

AES personnel collected six soil samples from the 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 May 16, 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 S-1 through S-5 were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs), total petroleum hydrocarbon (TPH), and chlorides. Soil sample SC-1 was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

### 2.1 Soil 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.

### 2.1.3 Chlorides

Soil samples were field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

Ashley Maxwell Wilson #2 BGT Closure Report June 15, 2012 Page 3 of 5

#### 2.2 Soil Laboratory Analyses

The composite soil sample SC-1 collected for laboratory analysis was placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. 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 Soil Field and Laboratory Analytical Results

Field screening for VOCs via OVM showed readings ranging from 0.9 ppm in S-4 up to 4.0 ppm in S-1. Field TPH concentrations ranged from 40.9 mg/kg in S-3 and S-5 up to 88.2 mg/kg in S-2. Field chloride concentrations were between 60 mg/kg in S-4 and S-5 up to 260 mg/kg in S-3. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Sample ID	Date Sampled	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)	
NMOCD Action	Level (NMAC 19.	.15.17.13E)	-	100	250
S-1	05/16/12	0.5	4.0	70.7	200
S-2	05/16/12	0.5	3.0	88.2	100
S-3	05/16/12	0.5	2.9	40.9	260
S-4	05/16/12	0.5	0.9	50.4	60
S-5	05/16/12	0.5	1.7	40.9	60

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results Wilson #2 BGT Closure. May 2012

Laboratory analytical results showed that the benzene and total BTEX concentrations in SC-1 were less than 0.050 mg/kg and less than 0.25 mg/kg, respectively. The laboratory chloride concentration was reported at 520 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Ashley Maxwell Wilson #2 BGT Closure Report June 15, 2012 Page 4 of 5 ٠

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.1		5.17.13E)	0.2	50	1	00	250
SC-1	05/16/12	0.5	<0.050	<0.25	NA	NA	520

 Table 2. Soil Laboratory Analytical Results, Wilson #2 BGT Closure, May 2012

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. Benzene concentrations in SC-1 were below the laboratory detection limit of 0.050 mg/kg, and total BTEX concentrations were below the NMOCD action level of 50 mg/kg. Field TPH concentrations were below the NMOCD action level of 100 mg/kg in all samples. Chloride concentrations in SC-1 were reported above the NMOCD action level of 250 mg/kg with 520 mg/kg. Based on field screening and laboratory analytical results for chlorides, CoP consulted with NMOCD regarding elevated chloride concentrations, and NMOCD concurred that the excavation could be backfilled. No further work is recommended.

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

Sincerely,

Debrah Water

Deborah Watson, Geologist Project Manager

Elizabet V Mindly

Elizabeth McNally, P.E.

Ashley Maxwell Wilson #2 BGT Closure Report June 15, 2012 Page 5 of 5

Attachments:

Figure 1. Topographic Site Location Map Figure 2. General Site Map, May 2012 AES Field Screening Report 051612 Hall Analytical Report 1205746

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	以合	NMOCI		(ppm)	(mg/kg)	(mg/kg				Benzene	Total	TPH -	TPH -	Children	N.104
			LEVEL	NE	100	250		Sample ID	Date	(mg/kg)	BTEX (ma/ka)	GRO (ma/ka)	DRO (ma/ka)	(mg/kg)	
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		S-3	5/16/12	2.9	40.9	260	1.2	SC-1	5/16/12	<0.050	<0.250	NA AFTHOD 801	NA NA	520	
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MAP SOURCE: (c) 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL STAKEN, MAIL 242004         DRAWN BY:       DATE DRAWN:       FIGURE 2         C. Lameman       May 21, 2012       FIGURE 2         REVISIONS BY:       DATE REVISED:       GENERAL SITE MAP         C. Lameman       May 21, 2012       GENERAL SITE MAP         BELOW GRADE TANK CLOSURE       May 21, 2012       ConocoPhillips         D. Watson       May 21, 2012       ConocoPhillips         D. Watson       May 21, 2012       SAN JUAN COUNTY, NEW MEXICO         SAN JUAN COUNTY, NEW MEXICO       SW4, NE4, SECTION 31, T29N, B10W		10 (1 INC	H = 40 FEET	D)	i eli Se sa								in al	The factor	<b>A</b> .
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C. Lameman     May 21, 2012     BELOW GRADE TANK CLOSURE MAY 2012       C. Lameman     May 21, 2012     BELOW GRADE TANK CLOSURE MAY 2012       Checked By:     DATE CHECKED:     ConocoPhillips       D. Watson     May 21, 2012     WILSON #2       Approved By:     DATE Approved:     SAN JUAN COUNTY, NEW MEXICO       SAN JUAN COUNTY, NEW MEXICO     SW24, NE44, SECTION 31, T29N, B10W	<b> </b>	$\mathbb{R}($					RE	VISIONS BY:	DATE R	EVISED:		GENE	RAL SITE I	МАР	
Animas Environmental Services LLC     CHECKED BY: D. Watson     DATE CHECKED: May 21, 2012     ConocoPhillips WillSON #2       Animas Environmental Services LLC     Approved BY: Environmental Services LLC     DATE Approved: May 21, 2012     SAN JUAN COUNTY, New MEXICO SW%, NE%, SECTION 31, T29N, B10W	[四]	1. 13 1. 14 1. 14	71		F		С	. Lameman	May 21	, 2012	BE		ADE TANK	CLOSURE	
Animas Environmental Services LLC APPROVED BY: DATE APPROVED: SAN JUAN COUNTY, NEW MEXICO SW4, NE4, SECTION 31, T29N, B10W	14	L	2/				Cł	HECKED BY:	DATE CH	IECKED:		Cor	nocoPhillip	s	
Animas Environmental Services IIC APPROVED BY: DATE APPROVED: SW4, NEW SECTION 31, T29N, B10W	4 - 5 	2000 C C C C C C C C C C C C C C C C C C		272	and		]	D. Watson	May 21	., 2012	c		/ILSON #2		[
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**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: Wilson #2

Date: 5/16/2012

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	5/16/2012	12:22	North	4.0	200	13:02	70.7	20.0	1	DAW
S-2	5/16/2012	12:25	South	3.0	100	13:05	88.2	20.0	1	DAW
S-3	5/16/2012	12:26	East	2.9	260	13:08	40.9	20.0	1	DAW
S-4	5/16/2012	12:27	West	0.9	60	13:12	50.4	20.0	1	DAW
S-5	5/16/2012	12:29	Center	1.7	60	13:15	40.9	20.0	1	DAW

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

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

\*Field TPH concentrations recorded may be below PQL.

Debrah Watu Analyst:

Page 1 Report Finalized: 05/21/12

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 18, 2012

Ross Kennemer Animas Environmental Services 624 East Comanche Farmington, NM 87401 TEL: (505) 486-1776 FAX (505) 324-2022

RE: CoP Wilson #2

OrderNo.: 1205746

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/17/2012 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 <u>www.hallenvironmental.com</u> 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.

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

Sincerely,

andial

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis	Lab Dat	0 Order 1205746 e Reported: 5/18/2012			
CLIENT: Animas Environmental Services Project: CoP Wilson #2 Lab ID: 1205746-001	Matrix:	C MEOH (SOIL)	Client Sample Collection D Received D	e ID: SC-1 Date: 5/16/20 Date: 5/17/20	012 12:38:00 PM 012 10:00:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	5/17/2012 12:02:32 PM
Toluene	ND	0.050	mg/Kg	1	5/17/2012 12:02:32 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/17/2012 12:02:32 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/17/2012 12:02:32 PM
Surr: 4-Bromofluorobenzene	89.4	80-120	%REC	1	5/17/2012 12:02:32 PM
EPA METHOD 300.0: ANIONS					Analyst: BRM
Chloride	520	30	mg/Kg	20	5/17/2012 12:21:13 PM

\*/X Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit

Page 1 of 3

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**Analytical Report** 

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client:	Animas Environmental Services
Project:	CoP Wilson #2

Sample ID MB-1992	SampType: MBLK	TestCode: EPA Method	l 300.0: Anions	
Client ID: PBS	Batch ID: 1992	RunNo: 2857		
Prep Date: 5/17/2012	Analysis Date: 5/17/2012	SeqNo: 79261	Units: mg/Kg	
Analyte	Result PQL SPK val	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-1992	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID: LCSS	Batch ID: 1992	RunNo: 2857		
Prep Date: 5/17/2012	Analysis Date: 5/17/2012	SeqNo: 79262	Units: mg/Kg	
Analuta	Result POL SPK val	e SPK Ref Val %REC Low imit	Highl imit %RPD	RPDI imit Qual
Analyte			_ ingliance / of the	ta benne deua

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

- Е Value above quantitation range
- Analyte detected below quantitation limits J
- R RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

WO#: 1205746 18-May-12

#### Page 2 of 3

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

#### Client: Animas Environmental Services

CoP Wilson #2

**Project:** 

Sample ID 5ML RB	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: <b>R2</b>	849	F	RunNo: 2	849				
Prep Date:	Analysis [	Date: <b>5/</b>	17/2012	5	SeqNo: 7	9697	Units: mg/k	۲g		
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	0.91		1.000		90.8	80	120			
Sample ID 100NG BTEX LCS	Samp	SampType: LCS TestCode: EP/					8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: <b>R2</b>	849	F	RunNo: 2	849				
Prep Date:	Analysis [	Date: <b>5</b> /	17/2012	S	SeqNo: 7	9698	Units: mg/h	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.050	1.000	0	88.8	83.3	107			
Toluene	0.93	0.050	1.000	0	92.7	74.3	115			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80.9	122			
Xylenes, Total	2.7	0.10	3.000	0	90.5	85.2	123			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	80	120			
	SampType: MS TestCode: EPA Metho						· <u> </u>			
Sample ID 1205746-001AMS	Samp	Type: MS	5	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Sample ID 1205746-001AMS Client ID: SC-1	Samp <sup>-</sup> Batc	Type: <b>MS</b> h ID: <b>R2</b>	849	Tes	tCode: El RunNo: 2	PA Method 849	8021B: Vola	tiles		
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date:	Samp Batc Analysis [	Type: <b>MS</b> h ID: <b>R2</b> Date: <b>5</b> /	849 17/2012	Tes F	tCode: El RunNo: 2 SeqNo: 7	PA Method 849 9701	8021B: Vola Units: mg/ł	tiles <g< td=""><td></td><td></td></g<>		
Sample ID <b>1205746-001AMS</b> Client ID: <b>SC-1</b> Prep Date: Analyte	Samp Batc Analysis I Result	Type: <b>MS</b> h ID: <b>R2</b> Date: <b>5/</b> PQL	5 849 17/2012 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 2 SeqNo: 7 %REC	PA Method 849 9701 LowLimit	8021B: Vola Units: mg/k HighLimit	tiles <g %RPD</g 	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene	Samp Batc Analysis I Result 0.53	Type: <b>MS</b> h ID: <b>R2</b> Date: <b>5/</b> PQL 0.050	849 17/2012 SPK value 0.5715	Tes F S SPK Ref Val 0	tCode: El RunNo: 2 SeqNo: 7 %REC 93.0	PA Method 849 9701 LowLimit 67.2	8021B: Vola Units: mg/F HighLimit 113	tiles (g %RPD	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene	Samp Batc Analysis I Result 0.53 0.55	Type: <b>MS</b> h ID: <b>R2</b> Date: <b>5/</b> <u>PQL</u> 0.050 0.050	849 17/2012 SPK value 0.5715 0.5715	Tes F SPK Ref Val 0 0	tCode: El RunNo: 2 SeqNo: 7 %REC 93.0 95.7	PA Method 849 9701 LowLimit 67.2 62.1	8021B: Vola Units: mg/F HighLimit 113 116	tiles <g %RPD</g 	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene	Samp Batc Analysis I Result 0.53 0.55 0.53	Type: <b>MS</b> h ID: <b>R2</b> Date: <b>5/</b> PQL 0.050 0.050 0.050	849 17/2012 SPK value 0.5715 0.5715 0.5715	Tes F SPK Ref Val 0 0 0 0	tCode: El RunNo: 2 SeqNo: 7 %REC 93.0 95.7 92.3	PA Method 849 9701 LowLimit 67.2 62.1 67.9	8021B: Vola Units: mg/k HighLimit 113 116 127	tiles (g %RPD	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Samp Batc Analysis I Result 0.53 0.55 0.53 1.6	Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050 0.10	849 17/2012 SPK value 0.5715 0.5715 0.5715 1.715	Tes F SPK Ref Val 0 0 0 0 0 0	tCode: El RunNo: 2 SeqNo: 7 %REC 93.0 95.7 92.3 93.9	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6	8021B: Vola Units: mg/k HighLimit 113 116 127 134	tiles <g %RPD</g 	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	Samp Batc Analysis I 0.53 0.55 0.53 1.6 0.55	Type: <b>MS</b> h ID: <b>R2</b> Date: <b>5/</b> <u>PQL</u> 0.050 0.050 0.050 0.050 0.10	3 849 17/2012 SPK value 0.5715 0.5715 0.5715 1.715 0.5715	Tes F SPK Ref Val 0 0 0 0 0	tCode: El RunNo: 2 SeqNo: 7 93.0 95.7 92.3 93.9 96.5	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80	8021B: Vola Units: mg/F HighLimit 113 116 127 134 120	tiles <g %RPD</g 	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1205746-001AMS	Samp Batc Analysis I 0.53 0.55 0.53 1.6 0.55 D Samp	Type: <b>MS</b> h ID: <b>R2</b> Date: <b>5</b> / PQL 0.050 0.050 0.050 0.10 Type: <b>MS</b>	849 17/2012 SPK value 0.5715 0.5715 0.5715 1.715 0.5715 0.5715	Tes F SPK Ref Val 0 0 0 0 0 0 Tes	tCode: El RunNo: 2 SeqNo: 7 %REC 93.0 95.7 92.3 93.9 96.5	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80 PA Method	8021B: Vola Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola	tiles (g %RPD	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1205746-001AMS Client ID: SC-1	Samp Batc Analysis I 0.53 0.55 0.53 1.6 0.55 D Samp Batc	Type: <b>MS</b> h ID: <b>R2</b> Date: <b>5</b> / PQL 0.050 0.050 0.050 0.10 Type: <b>MS</b> h ID: <b>R2</b>	3 849 17/2012 SPK value 0.5715 0.5715 0.5715 1.715 0.5715 5D 849	Tes F SPK Ref Val 0 0 0 0 Tes F	tCode: El RunNo: 2 SeqNo: 7 93.0 95.7 92.3 93.9 96.5 tCode: El RunNo: 2	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 849	8021B: Vola Units: mg/F HighLimit 113 116 127 134 120 8021B: Vola	tiles <g %RPD tiles</g 	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1205746-001AMS Client ID: SC-1 Prep Date:	Samp Batc Analysis I Result 0.53 0.55 0.53 1.6 0.55 D Samp Batc Analysis I	Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050 0.050 0.10 Type: MS th ID: R2 Date: 5/	3 849 17/2012 0.5715 0.5715 0.5715 1.715 0.5715 0.5715 5D 849 17/2012	Tes F SPK Ref Val 0 0 0 0 0 Tes F	tCode: El RunNo: 2 SeqNo: 7 %REC 93.0 95.7 92.3 93.9 96.5 tCode: El RunNo: 2 SeqNo: 7	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 849 9702	8021B: Vola Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k	tiles <g %RPD tiles <g< td=""><td>RPDLimit</td><td>Qual</td></g<></g 	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte	Samp Batc Analysis I 0.53 0.55 0.53 1.6 0.55 D Samp Batc Analysis I Result	Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050 0.050 0.10 Type: MS h ID: R2 Date: 5/ PQL	849 17/2012 SPK value 0.5715 0.5715 0.5715 1.715 0.5715 5D 849 17/2012 SPK value	Tes F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	tCode: El RunNo: 2 SeqNo: 7 93.0 95.7 92.3 93.9 96.5 tCode: El RunNo: 2 SeqNo: 7 %REC	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 849 9702 LowLimit	8021B: Vola Units: mg/ł HighLimit 113 116 127 134 120 8021B: Vola Units: mg/ł HighLimit	tiles <g tiles <g %RPD</g </g 	RPDLimit	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene	Samp Batc Analysis I 0.53 0.55 0.53 1.6 0.55 D Samp Batc Analysis I <u>Result</u> 0.52	Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050 0.10 Type: MS h ID: R2 Date: 5/ PQL 0.050	8 849 17/2012 SPK value 0.5715 0.5715 0.5715 1.715 0.5715 50 849 17/2012 SPK value 0.5715	Tes F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	tCode: El RunNo: 2 SeqNo: 7 93.0 95.7 92.3 93.9 96.5 tCode: El RunNo: 2 SeqNo: 7 %REC 91.5	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 849 9702 LowLimit 67.2	8021B: Vola Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit 113	tiles <g %RPD tiles <g %RPD 1.55</g </g 	RPDLimit RPDLimit 14.3	Qual
Sample ID       1205746-001AMS         Client ID:       SC-1         Prep Date:       Analyte         Benzene       Toluene         Ethylbenzene       Xylenes, Total         Surr: 4-Bromofluorobenzene       Sample ID         Sample ID       1205746-001AMS         Client ID:       SC-1         Prep Date:       Analyte         Benzene       Toluene         Toluene       SC-1         Prep Date:       Analyte         Benzene       Toluene	Samp Batc Analysis I Result 0.53 0.55 0.53 1.6 0.55 D Samp Batc Analysis I Result 0.52 0.54	Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050 0.10 Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050	3         849         17/2012         SPK value         0.5715         0.5715         1.715         0.5715         1.715         0.5715         1.715         0.5715         1.715         0.5715         SD         849         17/2012         SPK value         0.5715         0.5715	Tes F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0 0	tCode: El RunNo: 2 SeqNo: 7 93.0 95.7 92.3 93.9 96.5 tCode: El RunNo: 2 SeqNo: 7 %REC 91.5 93.7	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 849 9702 LowLimit 67.2 62.1	8021B: Vola Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit 113 116	tiles <g %RPD tiles <g %RPD 1.55 2.10</g </g 	RPDLimit RPDLimit 14.3 15.9	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene	Samp Batc Analysis I Result 0.53 0.55 0.53 1.6 0.55 D Samp Batc Analysis I Result 0.52 0.54 0.52	Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050 0.10 Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050	3 849 17/2012 SPK value 0.5715 0.5715 1.715 0.5715 3D 849 17/2012 SPK value 0.5715 0.5715 0.5715 0.5715	Tes F SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val 0 0 0 0	tCode: El RunNo: 2 SeqNo: 7 %REC 93.0 95.7 92.3 93.9 96.5 tCode: El RunNo: 2 SeqNo: 7 %REC 91.5 93.7 90.8	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 849 9702 LowLimit 67.2 62.1 67.2 62.1 67.9	8021B: Vola Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit 113 116 127	tiles <g %RPD tiles <g %RPD 1.55 2.10 1.65</g </g 	RPDLimit RPDLimit 14.3 15.9 14.4	Qual
Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1205746-001AMS Client ID: SC-1 Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	Samp Batc Analysis I Result 0.53 0.55 0.53 1.6 0.55 D Samp Batc Analysis I Result 0.52 0.54 0.52 1.6	Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050 0.10 Type: MS h ID: R2 Date: 5/ PQL 0.050 0.050 0.050 0.050 0.050 0.050	3         849         17/2012         SPK value         0.5715         0.5715         1.715         0.5715         1.715         0.5715         1.715         0.5715         1.715         0.5715         0.5715         0.5715         0.5715         0.5715         0.5715         0.5715         0.5715         0.5715         1.715	Tes F SPK Ref Val 0 0 0 0 0 Tes F SPK Ref Val 0 0 0 0 0 0	tCode: El RunNo: 2 SeqNo: 7 %REC 93.0 95.7 92.3 93.9 96.5 tCode: El RunNo: 2 SeqNo: 7 %REC 91.5 93.7 90.8 92.5	PA Method 849 9701 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 849 9702 LowLimit 67.2 62.1 67.2 62.1 67.9 60.6	8021B: Vola Units: mg/k HighLimit 113 116 127 134 120 8021B: Vola Units: mg/k HighLimit 113 116 127 134	tiles (g %RPD tiles (g %RPD 1.55 2.10 1.65 1.46	RPDLimit RPDLimit 14.3 15.9 14.4 12.6	Qual

#### Qualifiers:

\*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD 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

RL Reporting Detection Limit

1205746 18-May-12

WO#:

Page 3 of 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuq TEL: 505-345-3975 F Website: www.half	nalysis 4901 i uerque AX: 56 enviror	Lab Haw NM 5-34 men	orato kins N 1871( 15-41( tal.co	7) 1E 05 ( )7	Sample Log-In C	heck List	
Client Name: Animas Environmental	Wa	ork Or	der N	lumb	er: 1	205746		
Received by/date:	5/11/12							
Logged By: Ashley Gallegos	5/17/2012 10:00:00 AM				A	Ŧ		
Completed By: Ashley Gallegos	5/17/2012 10:13:18 AM				A	<i>ż</i>		
Reviewed By: Mog	05/17/12				·	U		
Chain of Custody	1				•			
1 Were seals intact?		Yes		No		Not Present 🗸		
2 Is Chain of Custody complete?		Yes	<b>V</b> .	No	•	Not Present		
3. How was the sample delivered?		<u>Cour</u>	ier					
login								
	cific information)	Vee		No		NA		
4. Coolers are present? (see 19. for cooler spe	citic information)	Yes	v	INO		NA ·		
5. Was an attempt made to cool the samples?		Yes	V	No	! !	NA		
6. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	V	No	: !	NA		
7 Sample(s) in proper container(s)?		Yes		No	, :			
8. Sufficient sample volume for indicated test(s	)?	Yes	V	No				
9 Are samples (except VOA and ONG) proper	ly preserved?	Yes	✓'	No	. ·			
10. Was preservative added to bottles?		Yes	· · :	No	<b>V</b> i	NA		
			: 1		1 1	N. LOANS LA		
11. VOA vials have zero headspace?	-2	Yes	11	NO	i			
13. Does paperwork match bottle labels?		Yes		No		# of preserved bottles checked		ł
(Note discrepancies on chain of custody)	0.10					for pH:		
14. Are matrices correctly identified on Chain of	Custody?	Yes		NO	 	Adjusted?	12 unless noted)	
16. Were all holding times able to be met?		Yes		No				:
(If no, notify customer for authorization.)		100				Checked by:		:
Special Handling (if applicable)								
17, Was client notified of all discrepancies with t	his order?	Yes		No		NA 🖌		
Person Notified:	Date:			la ATAGan Curr				
By Whom:	Via:	i eMa	il I	Ph	one	Fax In Person		
· Regarding:								
Client Instructions:								
18. Additional remarks:								
19. Cooler Information								
Cooler No Temp C Condition Se	al Intact Seal No Se	eal Da	te	1.	Signe	d By		
1 4.5 J. (p Good Yes	L			<u>.</u>				
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Page 1 of 1

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Chain-of-Custody Record				Turn-Around	Time:						¥.						~	<b>.</b>			"AI	,	
Client:	Amina	( FIAVAU	nanantal	□ Standard	X Rush	sameda	ч			] 	- Fi	IAI	LL & 1 `	ei Vg	ч V : Те	' L 🖻 5		IWF 30)	1C R/	1 9 1 1 7 6	AI R	- V	
			(	Project Name	<u> </u>		)				4~		(hall	anvi	ironr	nent	an co	a car	8 1201			1 2	
Mailing	Address	<u>101511</u>	The sucles	CoP W	can #2			4901 Hawkins NF - Albuguergue, NM 87109															
	<b>4</b> 1/1 .	0241	- Comanific	Project #:	ISON C			Tel 505-345-3975 Fax 505-345-4107															
l	arming H. EOS.	101 N	<u>M 81401</u>	-				Analysis Request											ä				
email o	r Fax#:	Junako	No an imagenvionmentalion	wProject Manager:					<u>[</u>	el)	Ĩ		,		24)					Î			٦
QA/QC I	Package: dard	<u>y 190 wi 30</u>	Level 4 (Full Validation)	R. Kennemer				s (8021	(Gas on	as/Dies					PO4,SC	2 PCB's			ر ب				
Accredi	itation	· · ·		Sampler: D	Wakon		·····		Hd	9 0	<del>,</del>	<del>,</del>	Ŷ		0 <sup>2</sup>	8082			સું			Î	Ē
	AP		f	Onlice	X Yes - A	ielNo/iii			+	3015	418.	504	PA	<u>s</u>	ဂ္ခ်	l / Se		(YO	01			, Z	5
	(Type)	<u> </u>		Sample Tem	perature: 4		<u></u>		TBE	g	Per	pou	A or	Aeta	5	ticid	(Š	ni-V	3			2	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL	No No	ЗТЕХ + 🙇	3TEX + N	TPH Meth	TPH (Met	EDB (Met	3310 (PN	RCRA 8 N	Anions (F	3081 Pesi	3260B (V(	3270 (Ser	300.0			Air Bubble	אונ המיייי
5-16-12	1728	cail	Sc-1	TMEOHICIT	Mcolt		-001	X		<u> </u>	<u>'</u>		<u> </u>		_	3	~		X			+	-
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Date: 5/14/18	Date: Time: Reliquished by: 5/14/12 1415 Allrh Watth		Aniste	- Weeds	5/14/12		wo	narks ; <i>103</i>	5: B 1361	1U 115	to (	Con	uccó USE	Phil r ID:	lip: KA	s IT L Prov	W	1078	re				
Date: Suliz	Date: Time: Relinquished by: Suliz 1457 Charter boulds		Received by Date Time			Supervisor: Harry Dee Area! 22																	
If necessary, samples submitted to Hall Environmental may be subc				ontracted to other ac	credited laboratori	es. This serves a	is <b>HEECO</b> IS	; possil	bility. <i>A</i>	Any su	b-cont	racted	data v	vill be	clearl	y nota	ited on	i the ai	nalytica	al repor	t.		