State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1000 0 · .

Form C-141 Revised August 8, 2011

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

District IV 1220 1220 S. St. Francis Dr., Santa Fe, NM 87505	J Souti	n St. Franc	cis Dr.										
S	anta F	e, NM 875	505					<i>0.11744</i>					
Release Notifi	catio	n and Co	orrective A	ction	l								
		OPERA	TOR		🗌 Initi	al Report	\boxtimes	Final Report					
Name of Company Burlington Resources Oil & Gas Compa	any	Contact C	ystal Tafoya										
Address 3401 East 30 th St, Farmington, NM		Telephone No.(505) 326-9837											
Facility Name: Lloyd B 600		Facility Ty	be: Gas Well										
Surface Owner BLM Mineral	Owner l	BLM (SF-0	78161)		API No	.30-045-27	181						
LOC	ATIO	N OF RE	LEASE										
Unit LetterSectionTownshipRangeFeet from theL129N11W1450	North	/South Line South	Feet from the 1085	East/V	Vest Line Vest	County San Juan							
Latitude <u>36.75131</u> Longitude <u>107.9477</u>													
NAT	FURE	OF REL	EASE										
Type of Release Produced Water		Volume of	Release 5 bbl	s	Volume I	Recovered	Nor	e					
Source of Release Produced Water Tank		Date and I	Hour of Occurrenc	e	Date and 1/21/2017	Hour of Dis	covery						
Was Immediate Notice Given?		If YES, To	Whom?		1/21/201.	2 at 10.00an	<u> </u>						
🗌 Yes 🗌 No 🖾 Not R	Required												
By Whom?		Date and I	lour										
Was a Watercourse Reached?		If YES, V	olume Impacting t	he Wate	ercourse.								
Yes 🛛 No													
If a Watercourse was Impacted, Describe Fully.*		_•			. 1	RCVD APR	2'1	3					
N/A						OIL CONS	DIV	Ē.					
						NICT	2						
Approximately Sobis of produced water overflowed from the location and is contained within the berm. The well is curren	Produc ntly shut	ed water 1a -in.	nk. No amount v	was reco	overed. 11	he release di	a not l	leave the					
Describe Area Affected and Cleanup Action Taken.* NMOCD action levels for releases are specified in NMOCD's score of 20. Samples were collected and analytical results are final report is attached for review.	Guideli e below a	nes for Leak applicable N	s, Spills, and Rele MOCD action lev	eases an /els. No	nd the relea further w	ase was assi ′ork will be	gned a perfor	ranking med. The					
I hereby certify that the information given above is true and compregulations all operators are required to report and/or file certain public health or the environment. The acceptance of a C-141 rep should their operations have failed to adequately investigate and or the environment. In addition, NMOCD acceptance of a C-141 federal, state, or local laws and/or regulations.	plete to t release n ort by th remediat report d	he best of my notifications a le NMOCD m le contaminat loes not reliev	knowledge and u nd perform correc larked as "Final Re ion that pose a thre we the operator of t	nderstar tive acti eport" d eat to gr responsi	nd that purs ions for rel- oes not rel- ound wate bility for c	suant to NMG eases which ieve the oper r, surface wa ompliance w	DCD ru may er ator of ter, hu rith any	iles and odanger liability man health v other					
	Í		<u>OIL CONS</u>	SERV	ATION	DIVISIC	<u>N</u>						
Signature:		Approved by	Environmental S	pecialist	pra	th h k	elly	T					
Printed Name: Crystal Tafoya													
Title: Field Environmental Specialist		Approval Da	1e: 4/4/2013	3 1	Expiration	ation Date:							
E-mail Address: crystal.tafoya@conocophillips.com		Conditions o	f Approval:			Attached							
Date: 4/1/2013 Phone: (505) 326-9837													
Attach Additional Sheets If Necessary			TK	130	x9442	661							

Attach Additional Sheets If Necessary



Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

March 27, 2013

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

RE: Produced Water Release Report Lloyd B 600 San Juan County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with a five barrel (BBL) produced water release at the ConocoPhillips (CoP) Lloyd B 600, located in San Juan County, New Mexico.

1.0 Site Information

1.1 Location

Site Name – Lloyd B 600 Legal Description – NW¼ SW¼, Section 1, T29N, R11W, San Juan County, New Mexico Well Latitude/Longitude – N36.75147 and W107.94816, respectively Release Latitude/Longitude – N36.75120 and W107.94822, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, January 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection Report dated May 1991 for the Lloyd B 600 reported the depth to groundwater as 80 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 (<u>http://ford.nmt.edu/react/project.html</u>) were accessed to aid in the identification of downgradient surface water.

Crystal Tafoya Lloyd B 600 Produced Water Release Report March 27, 2013 Page 2 of 4

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. A small unnamed wash was located approximately 250 feet north of the location, eventually discharging to the wash in East Fork Bloomfield Canyon. Based on this information, the location was assessed a ranking score of 20 per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993).

1.3 Produced Water Release Assessment

AES was initially contacted by Crystal Tafoya, CoP representative, on January 22, 2013, and on January 24, 2013, Deborah Watson and Corwin Lameman of AES traveled to the location. AES personnel collected one 5-point composite soil sample from the area surrounding the produced water tank for laboratory analysis.

2.0 Soil Sampling

On January 24, 2013, AES personnel collected one 5-point composite soil sample within the release area around the produced water tank. Soil sample SC-1 was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Laboratory Analyses

The composite soil sample 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; and
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.2 Laboratory Analytical Results

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as below the laboratory detection limits of 0.047 mg/kg and 0.24 mg/kg, respectively. TPH concentrations were reported as less than 4.7 mg/kg GRO and at 11 mg/kg DRO. Laboratory analytical results are summarized in Table 1 and included on Figure 2. The laboratory analytical report is attached.

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)
NMC	CD Action Level		10	50	10	0*
SC-1	01/24/13	0.25	<0.047	<0.24	<4.7	11

Table 1. Soil Laboratory Analytical Results Llovd B 600 Produced Water Release, January 2013

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

3.0 Conclusions and Recommendations

NMOCD action levels for releases are specified in NMOCD's *Guidelines for Leaks, Spills, and Releases* (August 1993), and the release was assigned a ranking score of 20. Benzene and total BTEX concentrations in SC-1 were reported below NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. Additionally, the TPH concentration as GRO/DRO was reported below the NMOCD action level of 100 mg/kg.

Based on laboratory analytical results of produced water contaminated soils at the Lloyd B 600, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels. 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,

Bandres R. Cupps

Landrea Cupps Environmental Scientist

Uzabuth V Mindly

Elizabeth McNally, P.E.

Crystal Tafoya Lloyd B 600 Produced Water Release Report March 27, 2013 Page 4 of 4

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, January 2013 Hall Analytical Report 1301875

C:\Dropbox\2013 Projects\ConocoPhillips\Lloyd B 600\Lloyd B 600 Produced Water Release Report 032713.docx





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>

February 15, 2013

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

RE: COP Lloyd B 600

OrderNo.: 1301875

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/25/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <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. 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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1301875

Date Reported: 2/15/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services COP Lloyd B 600 Project:

1301875-001

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Lab ID:

Client Sample ID: SC-1 Collection Date: 1/24/2013 1:45:00 PM Received Date: 1/25/2013 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG				Analyst: MMD	
Diesel Range Organics (DRO)	11	9.7	mg/Kg	1	1/31/2013 1:44:13 PM
Surr: DNOP	102	72.4-120	%REC	1	1/31/2013 1:44:13 PM
EPA METHOD 8015B: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/28/2013 3:32:16 PM
Surr: BFB	97.6	84-116	%REC	1	1/28/2013 3:32:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	1/28/2013 3:32:16 PM
Toluene	ND	0.047	mg/Kg	1	1/28/2013 3:32:16 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/28/2013 3:32:16 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/28/2013 3:32:16 PM
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	1/28/2013 3:32:16 PM

Matrix: SOIL

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

- Analyte detected below quantitation limits J
- Р Sample pH greater than 2
- Reporting Detection Limit RL

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits -

Spike Recovery outside accepted recovery limits S

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1301875

15-Feb-13

Client: Project:	Animas E	invironment	al Ser	vices								
		уа D 000										
Sample ID	MB-5902	SampTy	pe: ME	BLK	TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID:	PBS	Batch	ID: 59	02	F	RunNo: 8	358					
Prep Date:	1/30/2013	Analysis Da	te: 1/	31/2013	S	eqNo: 2	41455	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	ND	10									
Surr: DNOP		9.9		10.00		99.1	72.4	120				
Sample ID LCS-5902 SampType: LCS TestCode: EPA Method 8015B: Diesel Range Organics												
Client ID:	LCSS	Batch	ID: 59	02	F	RunNo: 8	358					
Prep Date:	1/30/2013	Analysis Da	te: 1 /	/31/2013	5	SeqNo: 2	41456	Units: mg/H	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	48	10	50.00	0	96.1	47.4	122				
Surr: DNOP) 	4.9		5.000		98.1	72.4	120				
Sample ID	1301798-001AMS	SampTy	pe: M	S	Tes	tCode: E	PA Method	8015B: Dies	el Range (Drganics		
Client ID:	BatchQC	Batch	ID: 59	02	RunNo: 8358							
Prep Date:	1/30/2013	Analysis Da	ite: 1/	/31/2013	S	SeqNo: 2	41458	Units: mg/ł	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	42	9.7	48.50	0	86.9	12.6	148				
Surr: DNOF	»	4.2		4.850		86.3	72.4	120				
Sample ID	1301798-001AMSI	D SampTy	pe: M	SD	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics		
Client ID:	BatchQC	Batch	ID: 59	02	F	RunNo: 8	358					
Prep Date:	1/30/2013	Analysis Da	ite: 1/	/31/2013	5	SeqNo: 2	41462	Units: mg/k	٢g			
Analyte		Result	PQL	SPK value	SPK Ref Val	_%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range	Organics (DRO)	48	10	50.97	0	93.9	12.6	148	12.6	22.5		
Surr: DNOF)	4.9		5.097		95.6	72.4	120	0	0		

Qualifiers:

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

- 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.

Animas Environmental Services

COP Lloyd B 600

Client:

Project:

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	•		

Sample ID MB-5845	SampType: MBLK TestCode: EPA Method 8015B: Gasc								e					
Client ID: PBS	Batch	n ID: 584	45	F	RunNo: 8	306								
Prep Date: 1/25/2013	Analysis D)ate: 1/	28/2013	3 SeqNo: 239872 U				Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	ND	5.0												
Surr: BFB	960		1000		96.0	84	116							
Sample ID LCS-5845 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range														
Client ID: LCSS Batch ID: 5845 RunNo: 8306														
Prep Date: 1/25/2013	Analysis D	Date: 1/	28/2013	S	SeqNo: 2	39873	Units: mg/k	٢g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.0	74	117		_					
	000		1000		98.1	84	116							
Surr: BPB	980		1000		50.1				-					
Sample ID 1301798-001AMS	SampT	Type: MS		Tes	tCode: E	PA Method	8015B: Gaso	oline Rang	e					
Sample ID 1301798-001AMS Client ID: BatchQC	S SampT Batch	Гуре: М\$ h ID: 58	3 45	Tes	tCode: El RunNo: 8	PA Method 306	8015B: Gase	oline Rang	e					
Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013	S SampT Batch Analysis D	Type: MS h ID: 58 Date: 1/	45 28/2013	Tes F	tCode: El RunNo: 8 SeqNo: 2	PA Method 306 39875	8015B: Gaso Units: mg/ł	bline Rang Kg						
Surr: BPB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte	S SampT Batch Analysis D Result	Type: M\$ h ID: 58 Date: 1/ PQL	45 28/2013 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 8 SeqNo: 2 %REC	PA Method 306 39875 LowLimit	8015B: Gaso Units: mg/k HighLimit	oline Rang (g %RPD	e RPDLimit	Qual				
Surr: BPB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte Gasoline Range Organics (GRO)	S SampT Batch Analysis D Result 22	Type: MS h ID: 58 Date: 1/ PQL 5.0	5 45 28/2013 SPK value 24.93	Tes F S SPK Ref Val 0	tCode: El RunNo: 8 SeqNo: 2 %REC 90.0	PA Method 306 39875 LowLimit 70	8015B: Gaso Units: mg/k HighLimit 130	oline Rang (g %RPD	e RPDLimit	Qual				
Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB	S SampT Batch Analysis D Result 22 1100	Type: M\$ h ID: 58 Date: 1/ PQL 5.0	5 45 28/2013 SPK value 24.93 997.0	Tes F S SPK Ref Val 0	tCode: El RunNo: 8 SeqNo: 2 %REC 90.0 108	PA Method 306 39875 LowLimit 70 84	8015B: Gaso Units: mg/F HighLimit 130 116	oline Rang (g %RPD	e RPDLimit	Qual				
Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1301798-001AMS	S SampT Batcl Analysis D Result 22 1100	Fype: MS h ID: 58 Date: 1/ PQL 5.0	5 45 28/2013 <u>SPK value</u> 24.93 997.0	Tes F SPK Ref Val 0 Tes	tCode: El RunNo: 8 SeqNo: 2 %REC 90.0 108	PA Method 306 39875 LowLimit 70 84 PA Method	8015B: Gaso Units: mg/k HighLimit 130 116 8015B: Gaso	version of the second s	e RPDLimit	Qual				
Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC	S SampT Batch Analysis D Result 22 1100 SD SampT Batch	Type: MS h ID: 58 Date: 1 / PQL 5.0 Type: MS h ID: 58	45 28/2013 SPK value 24.93 997.0 SD 45	Tes F SPK Ref Val 0 Tes F	tCode: El RunNo: 8 SeqNo: 2 %REC 90.0 108 tCode: E RunNo: 8	PA Method 306 39875 LowLimit 70 84 PA Method 306	8015B: Gaso Units: mg/k HighLimit 130 116 8015B: Gaso	Vg %RPD	e RPDLimit e	Qual				
Surr: BPB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013	S SampT Batch Analysis D Result 22 1100 SD SampT Batch Analysis D	Fype: MS h ID: 58 Date: 1/ PQL 5.0 Fype: MS h ID: 58 Date: 1/	5 45 28/2013 24.93 997.0 5D 45 28/2013	Tes F SPK Ref Val 0 Tes F	tCode: El RunNo: 8 SeqNo: 2 <u>%REC</u> 90.0 108 tCode: E RunNo: 8 SeqNo: 2	PA Method 306 39875 LowLimit 70 84 PA Method 306 39876	8015B: Gaso Units: mg/k HighLimit 130 116 8015B: Gaso Units: mg/k	oline Rang Kg %RPD Dline Rang	e RPDLimit e	Qual				
Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte	S SampT Batch Analysis D Result 22 1100 SD SampT Batch Analysis D Result	Type: MS h ID: 58 Date: 1/ PQL 5.0 Type: MS h ID: 58 Date: 1/ PQL	45 28/2013 28/2013 24.93 997.0 5D 45 28/2013 SPK value	Tes F SPK Ref Val 0 Tes F SPK Ref Val	tCode: E RunNo: 8 SeqNo: 2 %REC 90.0 108 tCode: E RunNo: 8 SeqNo: 2 %REC	PA Method 306 39875 LowLimit 70 84 PA Method 306 39876 LowLimit	8015B: Gaso Units: mg/k HighLimit 130 116 8015B: Gaso Units: mg/k HighLimit	oline Rang (g %RPD oline Rang (g %RPD	e RPDLimit e RPDLimit	Qual				
Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID 1301798-001AMS Client ID: BatchQC Prep Date: 1/25/2013 Analyte Gasoline Range Organics (GRO)	S SampT Batch Analysis D Result 22 1100 SD SampT Batch Analysis D Result 21	Type: MS h ID: 58 Date: 1/ PQL 5.0 Type: MS h ID: 58 Date: 1/ PQL 5.0	45 28/2013 SPK value 24.93 997.0 SD 45 28/2013 SPK value 24.93	Tes F SPK Ref Val 0 Tes F SPK Ref Val 0	tCode: E RunNo: 8 SeqNo: 2 %REC 90.0 108 ttCode: E RunNo: 8 SeqNo: 2 %REC 86.2	PA Method 306 39875 LowLimit 70 84 PA Method 306 39876 LowLimit 70	8015B: Gaso Units: mg/k HighLimit 130 116 8015B: Gaso Units: mg/k HighLimit 130	oline Rang (g %RPD oline Rang (g %RPD 4.27	e RPDLimit e RPDLimit 22.1	Qual				

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

WO#: 1301875

15-Feb-13

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

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Client:	Animas	s Environme	ntal Ser	vices							
Project:	COP L	loyd B 600									
Sample ID	MB-5845	Samp1	Type: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batcl	h ID: 58	45	F	RunNo: 8306					
Prep Date:	1/25/2013	Analysis [Date: 1 /	28/2013	5	SeqNo: 2	39889	Units: mg/k			
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-Bron	nofluorobenzene	1.1		1.000		106	80	120			
Sample ID	L.CS-5845	Samp1	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles	<u> </u>	
Client ID:	LCSS	Batcl	h ID: 58	45	F	RunNo: 8	306				
Prep Date:	1/25/2013	Analysis D	Date: 1 /	28/2013	S	SeqNo: 2	39890	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	101	80	120			
Toluene		1.0	0.050	1.000	0	102	80	120			
Ethylbenzene		1.0	0.050	1.000	0	103	80	120			
Xylenes, Total		3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bron	nofluorobenzene	1.1		1.000		110	80	120			
Sample ID	1301798-001A M	MS Samp	Гуре: М\$	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batc	h ID: 58	45	F	RunNo: 8	306				
Prep Date:	1/25/2013	Analysis [Date: 1/	28/2013	ę	SeqNo: 2	39892	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.95	0.050	0.9950	0	95.9	67.2	113			
Toluene		0.97	0.050	0.9950	0	97.1	62.1	116			
Ethylbenzene		0.99	0.050	0.9950	0	100	67.9	127			
Xylenes, Total		2.9	0.10	2.985	0	98.6	60.6	134			
Surr: 4-Bron	nofluorobenzene	1.1		0.9950		114	80	120			
Sample ID	1301798-001A N	MSD Samp1	Гуре: М\$	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	BatchQC	Batcl	h ID: 58	45	F	RunNo: 8	306				
Prep Date:	1/25/2013	Analysis E	Date: 1 /	28/2013	S	SeqNo: 2	39893	Units: mg/l	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.95	0.050	0.9970	0	95.5	67.2	113	0.293	14.3	
Toluene		0.97	0.050	0.9970	0	96.9	62.1	116	0.0353	15.9	
Ethylbenzene		0.99	0.050	0.9970	0	99.5	67.9	127	0.338	14.4	
Xylenes, Total		3.0	0.10	2.991	0	99.6	60.6	134	1.14	12.6	
Surr: 4-Bron	nofluorobenzene	1.1		0.9970		112	80	120	0	0	

Qualifiers:

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

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

WO#: 1301875

HALL Hall Environmen ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-3 Website: www	Atal Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 975 FAX: 505-345-410; Allenvironmental.com
Client Name: Animas Environmental	Work Order Number: 1301875
Received by/date: AG-01/25/13	
Logged By: Anne Thorne 1/25/2013 10:00:00	AM am In
Completed By: Anne Thorne 1/25/2013 Reviewed By:	am In
Chain of Custody	,
1. Were seals intact?	Yes 🗌 No 🗋 Not Present 🗹
2. Is Chain of Custody complete?	Yes 🗹 No 🗌 Not Present 🗌
3. How was the sample delivered?	Courier
<u>Log In</u>	
4. Coolers are present? (see 19. for cooler specific information)	Yes 🗹 No 🗋 🛛 NA 🗌
5. Was an attempt made to cool the samples?	Yes 🗹 No 🗋 🛛 NA 🛄
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹 No 🗋 🛛 NA 🗔
7 Sample(s) in proper container(s)?	Yes 🗹 No 🗌
8. Sufficient sample volume for indicated test(s)?	Yes 🗹 No 🗋
9. Are samples (except VOA and ONG) properly preserved?	Yes 🗹 No 🗌
10, Was preservative added to bottles?	Yes 🗋 No 🗹 🛛 NA 🗔
11, VOA viais have zero headspace?	Yes 🔲 No 🗔 No VOA Vials 🗹
12, Were any sample containers received broken?	Yes 🗋 No 🗹
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes V No H # of preserved bottles checked for pH:
14, Are matrices correctly identified on Chain of Custody?	Yes V No (<2 or >12 unless noted)
15, Is it clear what analyses were requested?	Yes V No Adjusted?
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Yes VI No LI Checked by:
Special Handling (if applicable)	······································
17. Was client notified of all discrepancies with this order?	
Person Notified: Date	
By Whom: Via:	eMail Phone Fax In Person
Regarding:	
Client Instructions:	
18. Additional remarks:	

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19. Cooler Information

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Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record			Turn-Around Time:					-	8		9 AL 1		1 21			•			BIT			
Client:	Ahima	s Envir	onmental		🛛 Rush	1					E A	na: Ni.	ll. Ai	EI YS	N V Sts	LIN 5 B	a f	INI BO	R	1871 B)R'	Y
	Sev.	400 11	1	Project Name	:			www.hallenvironmental.com														
Mailing	Address	· 1.74 C	5 Currancha	COP LLO	vd B &	00		4901 Hawkins NE - Albuquerque, NM 87109														
Trav	mak		1 87401	Project #:				Tel 505-345-3975 Eax 505-345-4107														
Phone:	# 605	564	9.2.8	-				Analysis Request														
email o	r Fax#:	<u> </u>		Project Manager:					(yl						(4)							
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accordited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.