

# **AE Order Number Banner**

**Report Description** 

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pVF1623628119

3RF - 13651

CONOCOPHILLIPS COMPANY

8/23/2016

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

### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 8, 2011

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

			Rele	ease Notific	_	and Co		ction				
						OPERA'	FOR	[	Initi	al Report	$\boxtimes$	Final Repor
Name of C	ompany C	onocoPhillip	os Co.			Contact Lisa Hunter						
		th St, Farmin		1		Telephone No.(505)-258-1607						
		an 30-6 CTI				Facility Type: Tank Battery						
Surface Ov				Mineral C					API No	. N/A	_	
Surface Or								min				
Unit Letter	Section	Township	Danga	Feet from the		South Line	Feet from the	Fact/W	est Line	County		
M	22	30N	Range 6W	N/A	Noruiz	N/A	N/A		/A	Rio Arrib	a	
						; Longitude	e: -107.45599 EASE					
Type of Rel	ease Histo	ric Contamina	tion			Volume of		own	Volume I	Recovered	462 yds	S
Source of Release					Iour of Occurrent			Hour of Dis	covery			
Above Grad	and the second se				_	Unknown			August 2	1, 2015		
Was Immed	iate Notice (		Yes [	No 🛛 Not Re	equired	If YES, To N/A	Whom?					
By Whom?	N/A					Date and H	lour					
Was a Wate	course Rea					If YES, Vo	olume Impacting	the Water	course.			
			Yes 🛛 1	No		N/A						
If a Waterco N/A	urse was Im	pacted, Descr	ibe Fully.'					OIL	CONS.	DIV DIST.	3	
	the second second								NOV 1	8 2015		
Describe Ar Historical hy yds of soil w	ea Affected drocarbon i as transport	ed to IEI land	Action Tak was found farm and		soil from	an approved	source was place	ed in the e				
regulations a public health should their or the enviro	Il operators or the envi operations h onment. In a	are required t ronment. The nave failed to a	o report ar acceptance adequately OCD accept	is true and comp ad/or file certain r ee of a C-141 repo investigate and r tance of a C-141	release no ort by the remediate	NMOCD m contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actio Report" do reat to gro	es not rel	eases which ieve the open r, surface wa	may er ator of ter, hu	ndanger Tliability man health
Signature:	ionature: Jsh LSA				American	OIL CON	0	ATION	DIVISIO	<u>DN</u>		
Printed Nam	e: Lisa Hu	inter			Ĺ	approven by	a	pecialist:	-	>		
Title: Field	Environme	ntal Specialis	st			Approval Dat	e: 12/17/2	US E	xpiration	Date:		
E-mail Addr	ess: Lisa.H	unter@cop.co	om			Conditions of	Approval:			Attached		
Date: 11/18/	2015		Phone	(505) 258-1607		NVEI	623627	1003				

\* Attach Additional Sheets If Necessary

Animas Environmental Services, LLC



OIL CONS. DIV DIST. 3

NOV 1 8 2015

October 29, 2015

Lisa Hunter ConocoPhillips San Juan Business Unit (505) 326-9786

Via electronic mail to: <u>SJBUE-Team@ConocoPhillips.com</u>

### RE: Release Assessment and Final Excavation Report San Juan 30-6 CTB3 Rio Arriba County, New Mexico

Dear Ms. Hunter:

On August 24 and 27, 2015, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) San Juan 30-6 CTB3, located in Rio Arriba County, New Mexico. Historic contamination was discovered during facility decommissioning. The initial release assessment was completed by AES on August 24, 2015, and the final excavation was completed by COPC contractors on August 27, 2015, while AES was at the location.

### 1.0 Site Information

### 1.1 Location

Site Name – San Juan 30-6 CTB3 Location – SW¼ SW¼, Section 22, T30N, R6W, Rio Arriba County, New Mexico BGT Latitude/Longitude – N36.79419 and W107.45610, respectively Release Location Latitude/Longitude – N36.79427 and W107.45599, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, August 2015

604 W. Piñon St. Farmington, NM 87401 505-564-2281

> 1911 Main, Ste 280 Durango, CO 81301 970-403-3084

www.animasenvironmental.com

### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- Depth to Groundwater: A Cathodic Report form dated May 1991 reported the depth to groundwater at 90 feet below ground surface (bgs). (10 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: An unnamed wash which discharges to Francis Creek is located approximately 170 feet south of the location. (20 points)

### 1.3 Assessment

AES was initially contacted by Lisa Hunter of COPC on August 21, 2015, and on August 24, 2015, Stephanie Hinds of AES completed the release assessment field work. The assessment included collection and field sampling of 15 soil samples from 9 test holes in and around the release area. Test holes were terminated between 5 and 8 feet below grade. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On August 27, 2015, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of nine confirmation soil samples (SC-1 through SC-9) from the walls and base of the excavation. The area of the final excavation measured approximately 49 feet by 51 feet by 3 to 7 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

### 2.0 Soil Sampling

A total of 15 soil samples from 9 test holes (TH-1 through TH-9) and 9 composite samples (SC-1 through SC-9) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbons (TPH). Nine composite samples (SC-1 through SC-9) collected during the excavation clearance were also submitted for confirmation laboratory analysis.

### 2.1 Field Sampling

### 2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

### 2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed per U.S. Environmental Protection Agency (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.

### 2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratorysupplied 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. All soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B; and
- TPH for gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) per USEPA Method 8015D.

### 2.3 Field and Laboratory Analytical Results

On August 24, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in TH-3, TH-4, TH-8 and TH-9 up to 22.8 ppm in TH-1. Field TPH concentrations ranged from less than 20.0 mg/kg in TH-3 and TH-7 up to greater than 2,500 mg/kg in TH-1.

On August 27, 2015, final excavation field screening results for VOCs via OVM ranged from 65.9 ppm in SC-8 up to 385 ppm in SC-4. Field TPH concentrations ranged from 26.8 mg/kg in SC-3 up to 111 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

#### San Juan 30-6 CTB3 Initial Release Assessment and Final Excavation August 2015 Sample VOCs TPH Date Depth via OVM 418.1 Sample ID Sampled (ft bgs) (ppm) (mg/kg) NMOCD Action Level\* 100 100 22.8 2 >2,500 TH-1 8/24/15 6 0.2 24.9 2 1.2 NA TH-2 8/24/15 6 37.1 0.2 2 0.0 NA TH-3 8/24/15 6 1.3 <20.0 2 6.2 186 TH-4 8/24/15 6 0.0 33.0 5 0.8 283 TH-5 8/24/15 8 54.6 0.8 TH-6 8/24/15 8 0.1 29.0 2 5.9 <20.0 TH-7 8/24/15 6 0.1 43.8 5 TH-8 8/24/15 0.0 33.0 5 TH-9 8/24/15 0.0 23.6 7 SC-1 8/27/15 332 43.7 5 SC-2 8/27/15 231 30.2 SC-3 8/27/15 0 to 5 152 26.8 SC-4 8/27/15 0 to 3 385 50.5 SC-5 8/27/15 0 to 5 220 111 SC-6 8/27/15 5 145 60.0 SC-7 110 31.4 8/27/15 0 to 7 SC-8 8/27/15 8 66 43.0 SC-9 8/27/15 3 284 29.7

### Table 1. Soil Field VOCs and TPH Results

NA - not analyzed

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

Laboratory analyses for SC-1 through SC-9 were used to confirm field sampling results from the final excavation. Benzene and total BTEX concentrations in SC-1 through SC-9 were reported below laboratory detection limits of 0.049 mg/kg and 0.245 mg/kg, respectively. TPH concentrations as GRO/DRO in SC-1 through SC-9 were reported below the laboratory detection limits. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

		Aug	gust 2015			
Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMOC	D Action Leve	2/*	10	50	10	00
SC-1	8/27/15	7	<0.048	<0.241	<4.8	<10
SC-2	8/27/15	5	<0.049	<0.245	<4.9	<10
SC-3	8/27/15	0 to 5	<0.049	<0.245	<4.9	<10
SC-4	8/27/15	0 to 3	<0.049	<0.245	<4.9	<9.9
SC-5	8/27/15	0 to 5	<0.047	<0.235	<4.7	<9.9
SC-6	8/27/15	5	<0.048	<0.241	<4.8	<10
SC-7	8/27/15	0 to 7	<0.048	<0.241	<4.8	<10
SC-8	8/27/15	5	<0.049	<0.244	<4.9	<9.6
SC-9	8/27/15	3	<0.046	<0.23	<4.6	<10

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH San Juan 30-6 CTB3 Initial Release Assessment and Final Excavation

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

### 3.0 Conclusions and Recommendations

On August 24, 2015, AES conducted an initial assessment of petroleum contaminated soils associated with historic contamination discovered at the San Juan 30-6 CTB3. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 30.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in TH-1, TH-4 and TH-5. The highest VOC and TPH concentrations were reported in TH-1 with 22.8 ppm and 2,500 mg/kg, respectively.

On August 27, 2015, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were above applicable NMOCD action levels for the final walls and base of the excavation, except for SC-8 (north wall) which had a VOC concentration of 65.9 ppm. Field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for the final walls and base of the excavation, with the exception of SC-5 (south wall) which had a TPH concentration of 111 mg/kg. However, laboratory analytical results reported benzene, total BTEX, and TPH concentrations as GRO/DRO below the applicable NMOCD action level of 200 mg/kg NMOCD action level in SC-1 through SC-9.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 30-6 CTB3, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,

Delilah J. Dongi

Delilah T. Dougi Environmental Technician

Sinh ShL

Emilee Skyles Geologist/Project Lead

Elizabeth & Mendly

Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, August 2015
- Figure 3. Initial Assessment Sample Locations and Results, August 2015
- Figure 4. Final Excavation Sample Locations and Results, August 2015
- AES Field Sampling Report 082415
- AES Field Sampling Report 082715
- Hall Laboratory Analytical Report 1509012

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AES Field Sampling Report

Animas Environmental Services, LLC



# Client: ConocoPhillips

Project Location: San Juan 30-6 CTB3

### Date: 8/24/2015

### Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials		
TH-1 @ 2'	8/24/2015	10:55	22.8	>2,500	11:17	20.0	1	SH		
TH-1@6'	8/24/2015	10:59	0.2	24.9	11:20	20.0	1	SH		
TH-2 @ 2'	8/24/2015	11:29	1.2	Not Analyzed for TPH						
TH-2 @ 6'	8/24/2015	11:36	0.2	37.1**	10:26	20.0	1	SH		
TH-3 @ 2'	8/24/2015	11:40	0.0	Not Analyzed for TPH						
TH-3 @ 6'	8/24/2015	11:48	1.3	< 20.0	10:32	20.0	1	SH		
TH-4 @ 2'	8/24/2015	11:55	6.2	186**	10:39	20.0	1	SH		
TH-4 @ 6'	8/24/2015	11:59	0.0	33.0**	11:04	20.0	1	SH		
TH-5 @ 5'	8/24/2015	12:15	0.8	283	16:59	20.0	1	SH		
TH-5 @ 8'	8/24/2015	15:52	0.8	54.6	16:37	20.0	1	SH		
TH-6 @ 8'	8/24/2015	12:22	0.1	29.0	17:02	20.0	1	SH		
TH-7 @ 2'	8/24/2015	15:59	5.9	< 20.0	16:41	20.0	1	SH		
TH-7@6'	8/24/2015	16:10	0.1	43.8	17:55	20.0	1	SH		

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-8 @ 5'	8/24/2015	17:15	0.0	33.0	17:45	20.0	1	SH
TH-9 @ 5'	8/24/2015	17:24	0.0	23.6	17:48	20.0	1	SH

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

\*Field TPH concentrations recorded may be below PQL.

\*\*Samples were analyzed on 8/25/15.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Alyphanie A. Hinds

**AES Field Sampling Report** 

Animas Environmental Services, LLC



### Client: ConocoPhillips

Project Location: San Juan 30-6 CTB3

Date: 8/27/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	8/27/2015	15:30	West Base	332	43.7	16:13	20.0	1	SG
SC-2	8/27/2015	15:38	South Base	231	30.2	16:18	20.0	1	SG
SC-3	8/27/2015	16:20	North Wall	152	26.8	21:23	20.0	1	SG
SC-4	8/27/2015	16:00	East Wall	385	50.5	21:25	20.0	1	SG
SC-5	8/27/2015	16:08	South Wall	220	111	21:28	20.0	1	SG
SC-6	8/27/2015	16:30	Center Base	145	60.0	21:32	20.0	1	SG
SC-7	8/27/2015	16:39	West Wall	110	31.4	21:33	20.0	1	SG
SC-8	8/27/2015	16:45	North Base	66	43.0	21:36	20.0	1	SG
SC-9	8/27/2015	16:15	East Base	284	29.7	21:39	20.0	1	SG

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Ann H Dersen fr.



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

September 04, 2015

Emilee Skyles Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281 FAX

RE: COPC SJ 30-6 CTB3

OrderNo.: 1509012

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/1/2015 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 1509012

#### Date Reported: 9/4/2015

### Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-1

 Project:
 COPC SJ 30-6 CTB3

 Lab ID:
 1509012-001

 Matrix:
 SOIL

 Result
 RL Qual Units

 DF Date Analyzed
 Batch

EPA METHOD 8015M/D: DIESEL RAN	<b>IGE ORGANIC</b>	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/2/2015 9:14:14 PM	21068
Surr: DNOP	109	57.9-140	%REC	1	9/2/2015 9:14:14 PM	21068
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Surr: BFB	86.4	75.4-113	%REC	1	9/2/2015 2:03:09 PM	21089
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.048	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Toluene	ND	0.048	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Ethylbenzene	ND	0.048	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Xylenes, Total	ND	0.097	mg/Kg	1	9/2/2015 2:03:09 PM	21089
Surr: 4-Bromofluorobenzene	99.1	80-120	%REC	1	9/2/2015 2:03:09 PM	21089

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 14
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1509012

Date Reported: 9/4/2015

	10.400.00			C					
Analyses		Result	RL	Oual	Units	DF Date Analyzed	Batch		
Lab ID:	1509012-002	Matrix: Se	OIL		Received	Date: 9/1/2015 8:05:00 AM			
<b>Project:</b>	COPC SJ 30-6 CTB3				Collection	Date: 8/27/2015 3:38:00 PM			
CLIENT:	Animas Environmental	Client Sample ID: SC-2							

EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/2/2015 9:41:51 PM	21068
Surr: DNOP	99.0	57.9-140	%REC	1	9/2/2015 9:41:51 PM	21068
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Surr: BFB	86.4	75.4-113	%REC	1	9/2/2015 3:19:21 PM	21089
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.049	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Toluene	ND	0.049	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Xylenes, Total	ND	0.098	mg/Kg	1	9/2/2015 3:19:21 PM	21089
Surr: 4-Bromofluorobenzene	99.5	80-120	%REC	1	9/2/2015 3:19:21 PM	21089

Qualifiers:		Value exceeds Maximum Contaminant Level.	D	Analyte detected in the associated Method Blank
Quanners.			D	
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 14
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report Lab Order 1509012 Date Reported: 9/4/2015

### Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-3

 Project:
 COPC SJ 30-6 CTB3

 Lab ID:
 1509012-003

 Matrix:
 SOIL

 Result
 RL Qual Units

 DF Date Analyzed
 Batch

EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/2/2015 10:09:35 PM	21068
Surr: DNOP	98.4	57.9-140	%REC	1	9/2/2015 10:09:35 PM	21068
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Surr: BFB	92.1	75.4-113	%REC	1	9/2/2015 4:35:28 PM	21089
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.049	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Toluene	ND	0.049	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Xylenes, Total	ND	0.098	mg/Kg	1	9/2/2015 4:35:28 PM	21089
Surr: 4-Bromofluorobenzene	108	80-120	%REC	1	9/2/2015 4:35:28 PM	21089

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 14
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report Lab Order 1509012

#### Date Reported: 9/4/2015

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental			Client Sampl	e ID: SC	2-4		
Project: COPC SJ 30-6 CTB3			Collection	Date: 8/2	27/2015 4:00:00 PM		
Lab ID: 1509012-004	Matrix:	Received Date: 9/1/2015 8:05:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	s			Analys	t: TOM	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/2/2015 10:37:26 PM	21068	
Surr: DNOP	101	57.9-140	%REC	1	9/2/2015 10:37:26 PM	21068	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/2/2015 5:00:46 PM	21089	
Surr: BFB	90.9	75.4-113	%REC	1	9/2/2015 5:00:46 PM	21089	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Benzene	ND	0.049	mg/Kg	1	9/2/2015 5:00:46 PM	21089	
Toluene	ND	0.049	mg/Kg	1	9/2/2015 5:00:46 PM	21089	
Ethylbenzene	ND	0.049	mg/Kg	1	9/2/2015 5:00:46 PM	21089	
Xylenes, Total	ND	0.098	mg/Kg	1	9/2/2015 5:00:46 PM	21089	
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	9/2/2015 5:00:46 PM	21089	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Ar
	D	Sample Diluted Due to Matrix	Е	Va
	Н	Holding times for preparation or analysis exceeded	J	A
	ND	Not Detected at the Reporting Limit	Р	Sa
	R	RPD outside accepted recovery limits	RL	Re

- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report

## Lab Order 1509012

Date Reported: 9/4/2015

### Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-5

 Project:
 COPC SJ 30-6 CTB3

 Lab ID:
 1509012-005

 Matrix:
 SOIL

 Result
 RL Qual Units

 DF Date Analyzed
 Batch

EPA METHOD 8015M/D: DIESEL RANGE O	RGANIC	S			Analyst:	том	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/2/2015 11:05:01 PM	21068	
Surr: DNOP	100	57.9-140	%REC	1	9/2/2015 11:05:01 PM	21068	
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/3/2015 12:35:59 AM	21089	
Surr: BFB	89.9	75.4-113	%REC	1	9/3/2015 12:35:59 AM	21089	
EPA METHOD 8021B: VOLATILES					Analyst:	NSB	
Benzene	ND	0.047	mg/Kg	1	9/3/2015 12:35:59 AM	21089	
Toluene	ND	0.047	mg/Kg	1	9/3/2015 12:35:59 AM	21089	
Ethylbenzene	ND	0.047	mg/Kg	1	9/3/2015 12:35:59 AM	21089	
Xylenes, Total	ND	0.094	mg/Kg	1	9/3/2015 12:35:59 AM	21089	
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	9/3/2015 12:35:59 AM	21089	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank				
	D	Sample Diluted Due to Matrix	E	Value above quantitation range				
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 14				
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range				
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit				
	S	% Recovery outside of range due to dilution or matrix						

### **Analytical Report** Lab Order 1509012 Date Reported: 9/4/2015

### Hall Environmental Analysis Laboratory, Inc.

**Client Sample ID: SC-6 CLIENT:** Animas Environmental Project: COPC SJ 30-6 CTB3 Collection Date: 8/27/2015 4:30:00 PM Received Date: 9/1/2015 8:05:00 AM Lab ID: 1509012-006 Matrix: SOIL Analyses Result **RL** Oual Units **DF** Date Analyzed Batch

r marj 500				~		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	том
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/2/2015 11:32:42 PM	21068
Surr: DNOP	99.8	57.9-140	%REC	1	9/2/2015 11:32:42 PM	21068
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Surr: BFB	86.5	75.4-113	%REC	1	9/3/2015 1:01:12 AM	21089
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Toluene	ND	0.048	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Ethylbenzene	ND	0.048	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Xylenes, Total	ND	0.097	mg/Kg	1	9/3/2015 1:01:12 AM	21089
Surr: 4-Bromofluorobenzene	100	80-120	%REC	1	9/3/2015 1:01:12 AM	21089

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

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 14 J
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical Report Lab Order 1509012

#### Date Reported: 9/4/2015

### Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: SC-7

 Project:
 COPC SJ 30-6 CTB3

 Lab ID:
 1509012-007

 Matrix:
 SOIL

 Result
 RL Qual Units

 DF Date Analyzed
 Batch

EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/3/2015 12:00:27 AM	21068
Surr: DNOP	105	57.9-140	%REC	1	9/3/2015 12:00:27 AM	21068
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Surr: BFB	88.1	75.4-113	%REC	1	9/3/2015 1:26:35 AM	21089
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Toluene	ND	0.048	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Ethylbenzene	ND	0.048	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Xylenes, Total	ND	0.097	mg/Kg	1	9/3/2015 1:26:35 AM	21089
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	9/3/2015 1:26:35 AM	21089

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 7 of 14
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		
	н	<ul> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>R RPD outside accepted recovery limits</li> </ul>	DSample Diluted Due to MatrixEHHolding times for preparation or analysis exceededJNDNot Detected at the Reporting LimitPRRPD outside accepted recovery limitsRL

#### **Analytical Report** Lab Order 1509012

#### Date Reported: 9/4/2015

9/3/2015 1:51:59 AM

9/3/2015 1:51:59 AM

1

1

21089

21089

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas	Environmental			Client Sampl	e ID: SC	2-8		
Project: COPC S	J 30-6 CTB3			Collection	Date: 8/2	27/2015 4:45:00 PM		
Lab ID: 1509012	-008	Matrix:	SOIL	Received	Date: 9/1	/2015 8:05:00 AM		
Analyses		Result	RL Qu	ual Units	DF	Date Analyzed	Batch	
EPA METHOD 801	5M/D: DIESEL RAN	IGE ORGANIC	s			Analyst	том	
Diesel Range Organics (DRO)		ND	9.6	mg/Kg	1	9/3/2015 12:28:06 AM	21068	
Surr: DNOP		102	57.9-140	%REC	1	9/3/2015 12:28:06 AM	21068	
EPA METHOD 801	5D: GASOLINE RA	NGE				Analyst	NSB	
Gasoline Range Or	ganics (GRO)	ND	4.9	mg/Kg	1	9/3/2015 1:51:59 AM	21089	
Surr: BFB		88.2	75.4-113	%REC	1	9/3/2015 1:51:59 AM	21089	
EPA METHOD 802	1B: VOLATILES					Analyst	NSB	
Benzene		ND	0.049	mg/Kg	1	9/3/2015 1:51:59 AM	21089	
Toluene		ND	0.049	mg/Kg	1	9/3/2015 1:51:59 AM	21089	
Ethylbenzene		ND	0.049	mg/Kg	1	9/3/2015 1:51:59 AM	21089	

0.097

80-120

mg/Kg

%REC

ND

101

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

0	1			
0	ua	IITI	er	S:

\*

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 8 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 1509012 Date Reported: 9/4/2015

Batch

**CLIENT:** Animas Environmental **Client Sample ID: SC-9** COPC SJ 30-6 CTB3 Collection Date: 8/27/2015 4:15:00 PM **Project:** Lab ID: 1509012-009 Matrix: SOIL Received Date: 9/1/2015 8:05:00 AM Result **RL** Qual Units **DF** Date Analyzed Analyses

EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/3/2015 1:34:03 PM	21083
Surr: DNOP	101	57.9-140	%REC	1	9/3/2015 1:34:03 PM	21083
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Surr: BFB	89.2	75.4-113	%REC	1	9/3/2015 2:17:20 AM	21089
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.046	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Toluene	ND	0.046	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Ethylbenzene	ND	0.046	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Xylenes, Total	ND	0.092	mg/Kg	1	9/3/2015 2:17:20 AM	21089
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	9/3/2015 2:17:20 AM	21089

Qualifiers:		Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 9 of 14
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

# **QC SUMMARY REPORT**

Hall En	vironmenta	l Analy	sis I	Laborat	ory, Inc.					WO#:	150901 04-Sep-1
Client: Project:		Invironment 30-6 CTB3									
Sample ID	MB-21068	SampTy	pe: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 21	068	F	RunNo:	28606				
Prep Date:	8/31/2015	Analysis Da	te: 9/	/2/2015	:	SeqNo: 8	366078	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range ( Surr: DNOP	Drganics (DRO)	ND 9.8	10	10.00		97.7	57.9	140			
Sample ID	LCS-21068	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 21	068	F	RunNo: 2	28606				
Prep Date:	te: 8/31/2015 Analysis Date: 9/2/2015				\$	SeqNo: 8	366079	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Drganics (DRO)	43	10	50.00	0	85.6	57.4	139			
Surr: DNOP	1	5.3		5.000		106	57.9	140	210		
Sample ID	MB-21083	SampTy	pe: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch ID: 21083			F	RunNo: 2	28637				
Prep Date:	9/1/2015	Analysis Date: 9/3/2015			5	SeqNo: 8	367224	Units: mg/l	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Drganics (DRO)	ND	10								
Surr: DNOP		11		10.00		108	57.9	140			
Sample ID	LCS-21083	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch I	ID: 21	083	F	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 28637					
Prep Date:	9/1/2015	Analysis Da	te: 9/	/3/2015	S	SeqNo: 8	867225	Units: mg/H			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	52	10	50.00	0	104	57.4	139			
Surr: DNOP		5.0		5.000		99.8	57.9	140			
Sample ID	1509012-009AMS	SampTy	pe: MS	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	_
Client ID:	SC-9	Batch I	D: 21	083	F	RunNo: 2	28637				
Prep Date:	9/1/2015	Analysis Da	te: 9/	3/2015	5	SeqNo: 8	67228	Units: mg/k	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Drganics (DRO)	49	9.8	49.16	0	100	42.3	146	CONTRACTOR OF THE		
Surr: DNOP		5.0		4.916		102	57.9	140			
Sample ID	1509012-009AMSE	) SampTy	pe: MS	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Range	e Organics	199
Client ID:	SC-9	Batch I	D: 21	083	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 28637						
Prep Date:	9/1/2015	Analysis Da	te: 9/	3/2015		SeqNo: 8		Units: mg/k	٢g		
		An end of the second se									

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range

Reporting Detection Limit

- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL

- Page 10 of 14
- %RPD RPDLimit

WO#: 1509012

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1509012 04-Sep-15

### Client: Animas Environmental Project: COPC SJ 30-6 CTB3

Sample ID 1509012-009AMSD	SampTy	be: MS	SD	Tes	Code: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: SC-9	Batch I	D: 21	083	R	tunNo: 2	8637				
Prep Date: 9/1/2015	Analysis Da	te: 9/	3/2015	S	eqNo: 8	67229	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.05	0	104	42.3	146	4.98	28.9	
Surr: DNOP	5.1		5.005		102	57.9	140	0	0	

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

#### Page 11 of 14

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		2nvironmen 30-6 CTB	0.5005								
Sample ID	MB-21086	SampTy	pe: M	BLK	Tes	tCode: E	PA Method	8015D: Gas	oline Rang	16	
Client ID:	PBS	Batch	ID: 21	086	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	ite: 9	2/2015	S	SeqNo: 8	66257	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1 St. 18	840		1000		84.1	75.4	113			-
Sample ID	LCS-21086	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015D: Gas	oline Rang	10	
Client ID:	LCSS	Batch	ID: 21	086	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	ite: 9	2/2015	5	SeqNo: 8	66258	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		930		1000		93.0	75.4	113			
Sample ID	MB-21089	SampTy	pe: M	BLK	Tes	tCode: E	PA Method	8015D: Gas	oline Rang	e	
Client ID:	PBS	Batch	ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	te: 9	2/2015	5	SeqNo: 8	66273	Units: mg/l	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
and a start of the	e Organics (GRO)	ND	5.0	Street, St		anatu na	New A	ESC-141			
Surr: BFB		880		1000		87.6	75.4	113	_		_
Sample ID	LCS-21089	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	LCSS	Batch	ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	te: 9	2/2015	S	SeqNo: 8	66274	Units: mg/l	۲g		
Analyte	all water	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
and the second of the	e Organics (GRO)	24	5.0	25.00	0	94.8	79.6	122			
Surr: BFB	and the second second	970	_	1000	_	97.2	75.4	113			
Sample ID	1509012-002AMS	SampTy	pe: M	6	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	SC-2	Batch	ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	te: 9/	2/2015	S	SeqNo: 8	66277	Units: mg/H	۲g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	27	4.9	24.56	0	108	62.5	151			
Surr: BFB	and the second	960		982.3		97.5	75.4	113			
Sample ID	1509012-002AMSI	SampTy	pe: Ms	SD	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID:	SC-2	Batch	ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis Da	te: 9/	2/2015	5	SeqNo: 8	66278	Units: mg/h	٢g		
Analyte	in the second	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	30	4.9	24.58	0	121	62.5	151	11.4	22.1	1000

Surr: BFB

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

1200

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

75.4

113

0

E Value above quantitation range

118

- J Analyte detected below quantitation limits
- P Sample pH Not In Range

983.3

RL Reporting Detection Limit

WO#: 1509012

04-Sep-15

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0

S

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

509012

04-Sep-15

Client: Project:		Environme 30-6 CTI									
Sample ID	MB-21086	Samp	Гуре: МІ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 21	086	F	RunNo: 2	28617				
Prep Date:	9/1/2015	Analysis E	Date: 9	/2/2015	5	SeqNo: 8	66291	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ofluorobenzene	0.97	FQL	1.000	SFR Rei vai	97.3	80	120	70KFD	REDLINIC	Qual
Sample ID	LCS-21086	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 21	086	F	RunNo: 2	28617				
Prep Date:	9/1/2015	Analysis D	Date: 9	/2/2015	5	SeqNo: 8	66292	Units: %RE	C		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ofluorobenzene	1.0		1.000		104	80	120			
Sample ID	MB-21089	SampType: MBLK TestCode: EPA I						8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 21	089	RunNo: 28617						
Prep Date:	9/1/2015	Analysis E	Date: 9	/2/2015	S	SeqNo: 8	66297	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								
Kylenes, Total		ND	0.10								
Surr: 4-Brom	ofluorobenzene	1.0		1.000		103	80	120			
Sample ID	LCS-21089	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batcl	h ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis D	)ate: 9/	/2/2015	S	SeqNo: 8	66298	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.050	1.000	0	92.1	80	120			
Toluene		0.92	0.050	1.000	0	92.4	80	120			
Ethylbenzene		0.96	0.050	1.000	0	95.8	80	120			
Xylenes, Total		2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Brom	ofluorobenzene	1.1		1.000		111	80	120			
Sample ID	1509012-001AMS	SampT	Type: MS	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	SC-1	Batch	h ID: 21	089	F	RunNo: 2	8617				
Prep Date:	9/1/2015	Analysis D	)ate: 9/	/2/2015	S	SeqNo: 8	66300	Units: mg/h	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.93	0.048	0.9662	0.01401	94.7	69.6	136			
Toluene		0.96	0.048	0.9662	0.01871	97.9	76.2	134			
		1.0	0.049	0.9662	0	104	75 0	137			
Ethylbenzene		1.0	0.048	0.9002	0	104	75.8	157			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
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- P Sample pH Not In Range
- RL Reporting Detection Limit

# QC SUMMARY REPORT

Hall Environmenta	l Analysis	Laboratory,	Inc.
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Client: Project:		20-6 CTE													
Sample ID	1509012-001AMS	Samp1	Type: M	S	TestCode: EPA Method 8021B: Volatiles										
Client ID:	SC-1	Batch	h ID: 21	089	F	RunNo: 2	8617								
Prep Date:	9/1/2015	Analysis Date: 9/2/2015			5	SeqNo: 8	66300	Units: mg/h	۲g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: 4-Bromo	ofluorobenzene	1.0		0.9662		105	80	120							
Sample ID	1509012-001AMS	Samp1	Type: M	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles						
Client ID:	SC-1	Batch	h ID: 21	089	F	RunNo: 2	8617								
Prep Date:	9/1/2015	Analysis D	Date: 9/	/2/2015	S	SeqNo: 8	66301	Units: mg/h	٢g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene		0.98	0.048	0.9653	0.01401	100	69.6	136	5.61	20					
Toluene		1.0	0.048	0.9653	0.01871	103	76.2	134	4.85	20					
		1.0	0.048	0.9653	0	109	75.8	137	4.50	20					
Ethylbenzene															
Ethylbenzene Kylenes, Total		3.2	0.097	2.896	0.04764	108	78.9	133	6.06	20					

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

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1509012

WO#:

04-Sep-15

ENVIRONMENTAL ANALYSIS LABORATORY IEL: 505-345-	entat Analysis Lobor 4901 Hawku Albiquerque, NM 8 3975 FAX: 505-345- w.hallenviconmenta	18 NE 17109 Sam	ple Log-In Chec	k List				
Client Name: Animas Environmental Work Order Nur	nber: 1509012		RcptNo: 1	lo: 1				
Received by/date: LM 09/01/15								
Logged By: Celina Sessa 9/1/2015 8:05:00 /	AM	Celin S	non					
Completed By: Celina Sessa 9/1/2015 10:38:45	AM	Celin S	nnen					
Reviewed By: A OF BILL	5	A STATISTICS						
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								
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						
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 L						
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗌					
10. VOA vials have zero headspace?	Yes 🗆	No 🗆	No VOA Viais 🗹					
11. Were any sample containers received broken?	Yes	No 🗹	# of preserved bottles checked					
12. Does paperwork match bottle labels?	Yes M	No 🗆	for pH:					
(Note discrepancies on chain of custody)			(<2 or >12 Adjusted?	unless note				
3. Are matrices correctly identified on Chain of Custody?	Yes V	No 🗌	riojusiour					
4. Is it clear what analyses were requested?	Yes M	No	Checked by:					
15. Were all holding times able to be met? (If no, notify customer for authorization.)	165 (1)			2 <u>1</u> 74.				
pecial Handling (if applicable)								
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA M					
Person Notified: Dat	te							
By Whom: Via	eMail	Phone 🗌 Fax	[] In Person					
Regarding:								
Client Instructions:								
17. Additional remarks:								
18. <u>Cooler Information</u>	L europe L	Olared D.						
Cooler No Temp *C Condition Seal Intact Seal No 1 2.5 Good Yes	Seal Date	Signed By						

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chain-or-ouslouy Record			Turn-Around	Time:					н	A	LL	E	NV	IF	20	NP	1EI	NT	AL		
Client:	mimas	5 Enviro	nmental Services	E Standard						A	N	AL	YS	SIS	5 L	A	BO	RA	TC	R	Y
	1.1			Project Name		-7	www.hallenvironmental.com														
Mailing	Address	:604 W	v. Piñon St.	COPC S	Ј 30-Ь	CTB 5	4901 Hawkins NE - Albuquerque, NM 87109														
-			87401	Project #:				Те	1. 50	5-34	5-39	975	F	ax	505-	345	-4107	7	34		
Phone #	#: <sup>5</sup> 5	05-56	4 -2281	le de la companya de								A	naly	sis	Req	uest	t				
email or Fax#: eskyles @ animasenvironmental. QA/QC Package: Standard				ger: Skyles		TMB's (8021)	(Gas only)	SO THE OF			(SMIS)		PO4,SO4)	PCB's							
Accredit				Sampler: ES/SG			WB	HdT	0	=	(1)	202		NO2	8082						E
		□ Othe	r	On Ice:	7 Yes	D No	+	+	S.	418.	504.1)	r 82	s	103	1 56		(YO				D.
C EDD	(Type)			Sample Tem	berature: 7,(	p-0,1CF=2.5 (	<b>J</b>	+ MTBE	B	por	por	10 0	letal	CI'N	icide	(Y	>-!u				S
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	0-0,105=25 ( HEAL NO. (509012	BTEX + M	BTEX + M	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method	PAH's (8310 or 8270	<b>RCRA 8 Metals</b>	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
27/15	15:30	Soil	SC-1	1-402.	cool	-001	X		X												
17/15	15:38	Stil	SC-2	1-402	1001	-002	X		X												
27/15	16:20	Soil	SC-3	1-402	6001	-003	X		X												
127/15	16:00	Soil	SC-4	1-402	C00/	-004	X		X												
:127/15	16:08	502	SC-5	1-402	600/	-005	X		X												
127/15	16:30	SOL	SC-6	1-402	6001	-006	X		X												
127/15	1639	Soil	SC-7	1-402	6001	-007	X		X												
127/5	1645	Stil	SC-8	1-402	6001	-008	X		X												
127/15	1615	Soil	80-9	1-402	000	-009	¥		X												
		-																			
							-						_						$\rightarrow$	_	+
Date:	Time:	Relinquish	ad hy:	Received by:		Date Time	Per	norte					-			Put	ILL.E	~			
131/15 Date:	1418 Time:	Relinguish	LSIL	Received by	re Wall	5 8/31/15 1418 Date Time	W	D #	10	381	02	D	Cor						Rand	la11	Smith
131/15	1845	Sha	ustre Walter	V A	R DC	10115 0805	AR	ea s	wper	eviso	R: ]	AIKE	-	RPH	IT	On		lby:L	isa-	Hun	

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.