OIL CONS. DIV DIST. 3

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy Minerals and Natural Resources

DEC 1 2 2014

Form C-141 Revised August 8, 2011

District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

			25	inta re	, NWI 8/3	003						
		Rel	ease Notific	ation	and Co	orrective A	ction					
					OPERA'	ΓOR		Initial	al Report	\boxtimes	Final 1	Report
Name of Company ConocoPhillips Company				(Contact Lir	ndsay Dumas						
Address 3401 East 30th St, Farmington, NM				-	Telephone 1	No.(505) 599-40	189					
Facility Name: Navajo Allotted Com 1]	Facility Typ	e: Gas Well						
Surface Owner Nav	ajo		Mineral C	wner 1	4-20-603-1	376		API No	.300451155	55		
			LOCA	ATION	OF RE	LEASE						
Unit Letter Section A 24	n Township 25N	Range 10W	Feet from the 1100'		South Line	Feet from the 1150'		Vest Line	County San Juan			
A 27	2314	10 **				le <u>-107.84242</u>	Las	Line	San Suan			
					OF REL							
Type of Release P	roduced Water		NAI	UKE	Volume of		nown	Volume I	Recovered	0		
	BGT					Hour of Occurrence	e		Hour of Disc	covery		
Was Immediate Notic	e Given?				If YES, To			Ulikilow	Ш			
		Yes [No Not R	equired								
By Whom?					Date and F							
Was a Watercourse R		Yes 🛛	No		If YES, Vo	olume Impacting t	the Wate	rcourse.				
If a Watercourse was	Impacted, Descr	ribe Fully.	*									
Describe Cause of Pro												
Contaminated soil w	as found durin	g facility	activities									
Describe Area Affect	ed and Cleanup	Action Ta	ken.*									
Historical hydrocar												
was transported to I												e.
Based on the final fie remediation is recom-						were below appl	icable N	MOCD ac	tion levels; n	o Turti	ier	
remediation is recoin	nended. The so	n sampiin	g report is attach	icu ioi i	eview.							
I hereby certify that t												
regulations all operate public health or the e												
should their operation												
or the environment.												21611
federal, state, or local				1		1	1	,	1			
Signature: my	mu D	11 m	ax			OIL CON	SERV	ATION	DIVISIO	N/		9
Signature: / ///	July 1	WITU	NO					//	1	//	-	
Printed Name: Linds	ay Dumas				Approved by	Environmental S	pecialist		WE !	1.0		N
Title: Field Environ	mental Speciali	ist			Approval Da	1/1/1/2		Expiration	Date:			
						1111						

* Attach Additional Sheets If Necessary

Date: 11/25/2014

E-mail Address: Lindsay.Dumas@cop.com

Phone: 505-599-4089

#NCS 1501435631

Conditions of Approval:

(53)

Attached

Animas Environmental Services, LLC



October 27, 2014

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

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

RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report Navajo Allotted Com #1 San Juan County, New Mexico

Dear Ms. Dumas:

On June 18, September 11, and September 15, 2014, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, a release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Navajo Allotted Com #1, located in San Juan County, New Mexico. During BGT closure activities, historic contamination was discovered beneath the 80 barrel (bbl) pit tank. An initial release assessment was completed on June 18, 2014, and the final excavation was completed by CoP contractors prior to AES' arrival at the location on September 15, 2014.

1.0 Site Information

1.1 Location

Site Name – Navajo Allotted Com #1

Location – NE¼ NE¼, Section 24, T25N, R10W

San Juan County, New Mexico

Well Head Latitude/Longitude – N36.39101; W107.84312

Release Latitude/Longitude – N36.39127; W107.84303

Land Jurisdiction – Navajo Nation Allotment

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, June 2014

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

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

1.2 NMOCD Ranking

The Navajo Allotted Com #1 is located within the Navajo Nation Allotment. Navajo Nation Environmental Protection Agency (NNEPA) adheres to action levels for releases and spills as established by the New Mexico Oil Conservation Division (NMOCD).

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 10 based on the following factors:

- Depth to Groundwater: A pit closure report form dated October 2005 for the Navajo Allotted Com #1E, located approximately 2,650 feet south of the location and 40 feet lower in elevation, reported the depth to groundwater at greater than 100 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Approximately 425 feet to the northeast is an unnamed ephemeral wash that drains to sewage lagoons located 1,800 feet southeast of the location. (10 points)

1.3 Assessment

AES was initially contacted by Joe Cavin, CoP representative on June 17, 2014, and on June 18, 2014, Deborah Watson and David Reese of AES traveled to the location. Soil sampling consisted of collection of five soil samples from below the BGT. 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.

On the same day, AES personnel completed the release assessment field work. The assessment included collection and field screening of 13 soil samples from five assessment trenches (TH-1 through TH-5). Based on field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On September 11, 2014, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples (SC-1 through SC-5) from the walls and base of the excavation. Two final confirmation soil samples (SC-6 and SC-7) from the extended excavation were collected on September 15, 2014. The final excavation measured approximately 35 feet by 23 feet by 13 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 18 soil samples (from S-1 through S-5 and from TH-1 through TH-5) and 8 composite samples (BGT SC-1 and SC-1 through SC-7) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Sample TH-4 and all composite samples (BGT SC-1 and SC-1 through SC-7) collected were 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.

2.1.3 Chlorides

Soil sample BGT SC-1 was field analyzed for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. 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) and diesel range organics (DRO) per USEPA Method 8015D.

In addition, BGT SC-1 was also analyzed for:

Chlorides per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

On June 18, 2014, BGT closure field screening results for VOCs via OVM ranged from 21.8 ppm in S-1 up to 4,889 ppm in S-4. Field TPH concentrations ranged from 280 mg/kg in S-1 up to 3,370 mg/kg in S-4.

Initial assessment field screening readings for VOCs via OVM ranged from 3.6 ppm in TH-3 up to 4,889 ppm in TH-4. Field TPH concentrations ranged from 26.7 mg/kg in TH-3 to 3,370 mg/kg in TH-1.

Final excavation field screening results for VOCs via OVM ranged from 1.7 ppm in SC-1 up to 2,954 ppm in SC-6. Field TPH concentrations ranged from 28.9 mg/kg in SC-4 up to 746 mg/kg in SC-7. Field screening VOC and TPH results are summarized in Table 1 and on Figures 2 through 4. The AES field sampling reports are attached.

Table 1. Soil Field Sampling VOCs, TPH, and Chloride Results

Navajo Allotted Com #1 BGT Closure, Initial Release Assessment and Final Excavation

June and September 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)	Field Chlorides (mg/kg)
NMOCD	Action Level*		NE/100	1,000	250/NE
S-1	6/18/14	0.5	21.8	280	NA
S-2	6/18/14	0.5	457	371	NA
S-3	6/18/14	0.5	73.1	557	NA
S-4	6/18/14	0.5	4,889	3,370	NA
S-5	6/18/14	0.5	1,958	496	NA
BGT SC-1	6/18/14	0.5	3,632	NA	80
	-	4	4,889	3,370	NA
TU 4		7	2,056	>2,500	NA
TH-1	6/18/14	13	4,255	701	NA
		14	NA	202	NA
TII 2	CIADIAA	6	5.3	NA	NA
TH-2	6/18/14 -	9	607	157	NA
TIL 2	6/40/44	7	3.6	NA	NA
TH-3	6/18/14	9	3.8	26.7	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)	Field Chlorides (mg/kg)
NMOCD	Action Level*		NE/100	1,000	250/NE
		6.5	31.9	NA	NA
TH-4	6/18/14	9	3,744	1,780	NA
		10	4,661	2,510	NA
THE	6/10/14	4	27.6	NA	NA
TH-5	6/18/14	9	16.0	39.5	NA
SC-1	9/11/14	1 to 13	1.7	39.4	NA
SC-2	9/11/14	1 to 13	1,305	323	NA
SC-3	9/11/14	1 to 13	142	257	NA
SC-4	9/11/14	1 to 13	30.7	28.9	NA
SC-5	9/11/14	13	950	93.0	NA
SC-6	9/15/14	1 to 13	2,954	193	NA
SC-7	9/15/14	13	2,803	746	NA

NA – not analyzed

NE - not established

Laboratory analyses for sample BGT SC-1 were used to confirm field sampling results from the initial BGT closure. Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.24 mg/kg and at 12.1 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at 380 mg/kg and 400 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg.

Laboratory analyses of TH-4 were used to confirm field sampling results from the initial assessment. Benzene concentrations were reported below laboratory detection limits and total BTEX concentrations were measured at 16.6 mg/kg. TPH concentrations as GRO and DRO were reported at 1,100 mg/kg and 950 mg/kg, respectively.

Laboratory analyses for SC-1 through SC-7 were used to confirm field sampling results from the final excavation extents. Benzene concentrations were reported below laboratory detection limits in all samples except SC-6 (0.37 mg/kg). Total BTEX concentrations ranged from below laboratory detection limits in SC-1, SC-3, and SC-4, up to 17.1 mg/kg in SC-6. Total TPH concentrations ranged from below laboratory detection limits in SC-1, SC-3, and

^{*}Action level determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993) and NMAC 19.15.17.13E.

SC-4 up to 486 mg/kg in SC-6. Results are summarized in Table 2 and included on Figures 2 through 4. The laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides Navajo Allotted Com #1 Initial Release Assessment and Final Excavation

		Sample		Total	TPH-	TPH-	
	Date	Depth	Benzene	BTEX	GRO	DRO	Chlorides
Sample ID	Sampled	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCI	D Action Leve	 *	0.2/10	50	1,	.000	250/NE
BGT SC-1	6/18/14	0.5	<0.24	12.1	380	400	<30
TH-4	6/18/14	10	< 0.46	16.6	1,100	950	NA
SC-1	9/11/14	1 to 13	<0.035	<0.176	<3.5	<10	NA
SC-2	9/11/14	1 to 13	<0.035	0.18	37	49	NA
SC-3	9/11/14	1 to 13	<0.033	<0.166	<3.3	<10	NA
SC-4	9/11/14	1 to 13	< 0.032	<0.161	<3.2	<10	NA
SC-5	9/11/14	13	<0.031	0.512	37	<9.8	NA
SC-6	9/15/14	1 to 13	0.37	17.1	420	66	NA
SC-7	9/15/14	13	<0.072	0.19	39	50	NA

NA - not analyzed

NE - not established

3.0 Conclusions and Recommendations

On June 18, September 11, and September 15, 2014, AES conducted a BGT closure and assessment of petroleum contaminated soils associated with a release of hydrocarbons at the Navajo Allotted Com #1. NNEPA (NMOCD) action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. 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 10.

Field BGT closure sampling TPH results in June 2014 were reported above the NMOCD action level of 1,000 mg/kg in S-4 (west wall), with a concentration of 3,370 mg/kg. Laboratory results for benzene, total BTEX, TPH (as GRO/DRO), and chloride concentrations in BGT SC-1 were reported below NMOCD action levels. Based on field concentrations, a release was confirmed.

^{*}Action level determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993) and NMAC 19.15.17.13E.

On June 18, 2014, release assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in TH-1, TH-2, and TH-4. The highest VOC concentration was reported in TH-1 with 4,889 ppm, and the highest TPH concentration was also reported in TH-1 with a concentration of 3,370 mg/kg. Laboratory results for benzene and total BTEX concentrations in TH-4 were reported below NMOCD action levels. However, TPH concentrations exceeded NMOCD action levels of 1,000 mg/kg (2,050 mg/kg). Due to TPH concentrations above NMOCD action levels, excavation of the release area was recommended.

On September 11, 2014, excavation of the impacted area began. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for two of the final walls of the excavation. However, samples SC-2 (south wall), SC-3 (east wall), and SC-5 (base) reported VOC concentrations above the NMOCD action level with 1,305 ppm, 142 ppm, and 950 ppm, respectively. Field TPH concentrations were below the applicable NMOCD action level of 1,000 mg/kg in all samples. Laboratory analytical results confirmed benzene, total BTEX, and TPH (as GRO/DRO) concentrations below NMOCD action levels in all samples.

On September 15, 2014, the excavation was extended east to include TH-4, which was originally above NMOCD action levels, and was completed by CoP contractors prior to AES' arrival at the location. Two additional confirmation samples, SC-6 and SC-7, were collected from the extended east wall and base, respectively. Field sampling results in both samples reported VOC concentrations above applicable NMOCD action levels and TPH concentrations below NMOCD action levels. Laboratory analytical results for SC-6 and SC-7 reported benzene, total BTEX, and TPH concentrations below applicable NMOCD action levels.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Navajo Allotted Com #1, VOC, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the final 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,

David J. Reese

Environmental Scientist

David of Rem

Elizabeth v Mendly

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, June 2014

Figure 3. Initial Assessment Sample Locations and Results, June 2014

Figure 4. Final Excavation Sample Locations and Results, September 2014

AES BGT Field Sampling Report 061814

AES Release Field Sampling Report 061814

AES Field Sampling Report 091114

AES Field Sampling Report 091514

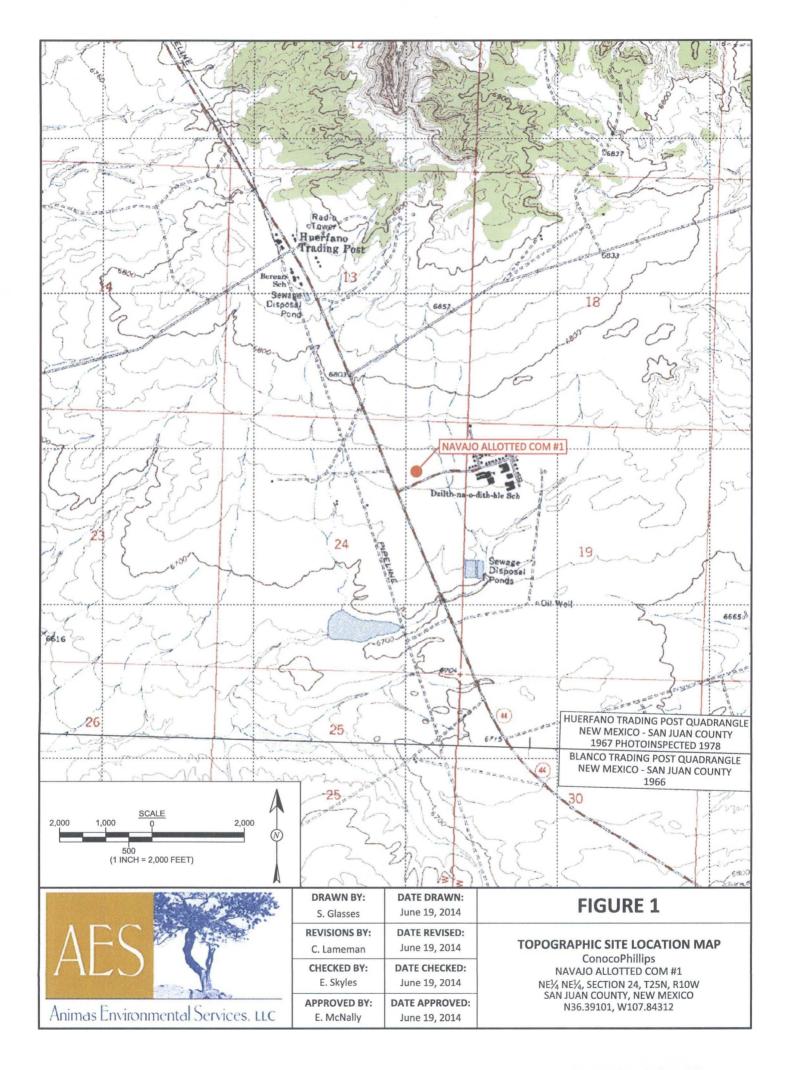
Hall Laboratory Analytical Report 1406A22

Hall Laboratory Analytical Report 1406A23

Hall Laboratory Analytical Report 1409571

Hall Laboratory Analytical Report 1409706

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LEGEND

SAMPLE LOCATIONS

	- B		_ 5 - 10 miles	医 多二氏性炎
	Field Sa	mpling R	esults	
Sample ID	Date	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD AC	TION LEVEL		100	250
S-1	6/18/14	21.8	280	NA
S-2	6/18/14	457	371	NA
S-3	6/18/14	73.1	557	NA
S-4	6/18/14	4,889	3,370	NA
S-5	6/18/14	1,958	496	NA
SC-1	6/18/14	3,632	NA	80

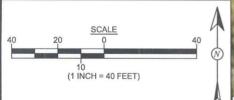
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACT	ION LEVEL	0.2	50	10	00	250
SC-1	6/18/14	<0.24	12.1	380	400	<30
SAMPLE WAS	ANALYZED	PER USEPA	METHOD 8	021B, 8015I	O AND 300.0),

Laboratory Analytical Results

SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED



NAVAJO ALLOTTED COM #1 WELL MONUMENT



AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: FEBRUARY 2 , 2009

AES	
Animas Environmental Services, LLC	

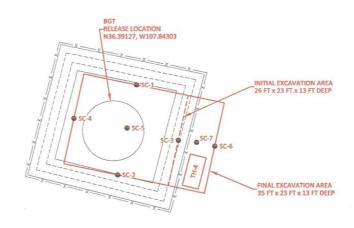
DRAWN BY:	DATE DRAWN:
S. Glasses	June 19, 2014
REVISIONS BY:	DATE REVISED:
C. Lameman	June 19, 2014
CHECKED BY:	DATE CHECKED:
E. Skyles	June 19, 2014
APPROVED BY:	DATE APPROVED:
E. McNally	June 19, 2014

AERIAL SITE MAP BELOW GRADE TANK CLOSURE JUNE 2014

FIGURE 2

ConocoPhillips NAVAJO ALLOTTED COM #1 NE½ NE¾, SECTION 24, T25N, R10W SAN JUAN COUNTY, NEW MEXICO N36.39101, W107.84312





	Field So	ampling Res	ults	
Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)
٨	IMOCD ACT	100	1,000	
SC-1	9/11/14	1 to 13	1.7	39.4
SC-2	9/11/14	1 to 13	1,305	323
SC-3	9/11/14	1 to 13	142	257
SC-4	9/11/14	1 to 13	30.7	28.9
SC-5	9/11/14	13	950	93.0
SC-6	9/15/14	1 to 13	2,954	193
SC-7	9/15/14	13	2,803	746

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	
NMOCD ACTION LEVEL			10	50	1,000		
SC-1	9/11/14	1 to 13	<0.035	<0.176	<3.5	<10	
SC-2	9/11/14	1 to 13	<0.035	0.18	37	49	
SC-3	9/11/14	1 to 13	<0.033	<0.166	<3.3	<10	
SC-4	9/11/14	1 to 13	<0.032	<0.161	<3.2	<10	
SC-5	9/11/14	13	<0.031	0.512	37	<9.8	
SC-6	9/15/14	1 to 13	0.37	17.1	420	66	
SC-7	9/15/14	13	<0.072	0.19	39	50	

FIGURE 4

FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
SEPTEMBER 2014
Conocophillips
NAVAIO ALLOTTED COM #1
NEX, NEX, SECTION 24, T2SN, R10W
SAN JUAN COUNTY, NEW MEXICO
N36.39101, W107.84312



Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	September 12, 2014
REVISIONS BY:	DATE REVISED:
S. Glasses	September 18, 2014
CHECKED BY:	DATE CHECKED:
E. Skyles	September 18, 2014
APPROVED BY:	DATE APPROVED:
E. McNally	September 18, 2014

LEGEND

SAMPLE LOCATIONS

SECONDARY CONTAINMENT BERM

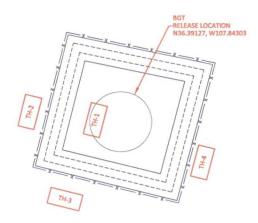
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(1 INCH = 15 FEET)

NAVAJO ALLOTTED COM #1 MONUMENT ~







Sample ID	Date	Depth (ft)	OVM- PID (ppm)	TPH (mg/kg)
٨	MOCD ACT	ION LEVEL	100	1,000
		4	4,889	3,370
771.4	6/20/24	7	2,056	>2,500
TH-1	6/18/14	13	4,255	701
		14	NA	202
	6/18/14	6	5.3	NA
TH-2		9	607	157
W11.0	6/18/14	7	3.6	NA
TH-3		9	3.8	26.7
		6.5	31.9	NA
TH-4	6/18/14	9	3,744	1,780
		10	4,661	2,510
TH-5	C/10/14	4	27.6	NA
	6/18/14	9	16.0	39.5

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg
NMOCD	ACTION LE	VEL	10	50	1,0	000
TH-4	6/18/14	10	< 0.46	16.6	1,100	950



NAVAJO ALLOTTED COM #1 MONUMENT /

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS JUNE 2014

CONCOPPHILIPS

NAVAJO ALLOTTED COM #1

NE½ NE¾, SECTION 24, T25N, R10W
SAN JUAN COUNTY, NEW MEXICO
N36,39101, W107.84312



DRAWN BY:	DATE DRAWN:
C. Lameman	September 18, 2014
REVISIONS BY:	DATE REVISED:
C. Lameman	September 18, 2014
CHECKED BY:	DATE CHECKED:
E. Skyles	September 18, 2014
APPROVED BY-	DATE ADDROVED

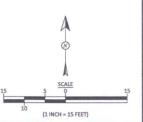
LEGEND

E. McNally

September 18, 2014

SECONDARY CONTAINMENT BERM

— x — FENCE



Client: ConocoPhillips

Project Location: Navajo Allotted Com #1

Date: 6/18/2014

Matrix: Soil



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	6/18/2014	8:37	North	21.8	NA	280	9:25	20.0	1	DR
S-2	6/18/2014	8:39	South	457	NA	371	9:33	20.0	1	DR
S-3	6/18/2014	8:41	East	73.1	NA	557	9:37	20.0	1	DR
S-4	6/18/2014	8:43	West	4,889	NA	3,370	10:14	200	10	DR
S-5	6/18/2014	8:45	Center	1,958	NA	496	9:48	20.0	1	DR
SC-1	6/18/2014	8:50	Composite	3,632	80		Not	Analyzed for T	PH	

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count

Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

David of Rem

AES

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: Navajo Allotted Com #1

Date: 6/18/2014

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 @ 4'	6/18/2014	8:43	4,889	3,370	10:14	200	10	DR
TH-1 @ 7'	6/18/2014	11:44	2,056	>2,500	12:01	20.0	1	DR
TH-1 @ 13'	6/18/2014	12:08	4,255	701	12:25	20.0	1	DR
TH-1 @ 14'	6/18/2014	14:04	NA	202	14:55	20.0	1	DR
TH-2 @ 6'	6/18/2014	13:01	5.3		Not	Analyzed for T	PH	
TH-2 @ 9'	6/18/2014	13:05	607	157	14:10	20.0	1	DR
TH-3 @ 7'	6/18/2014	13:15	3.6		Not	Analyzed for T	PH	
TH-3 @ 9'	6/18/2014	13:22	3.8	26.7	14:18	20.0	1	DR
TH-4 @ 6.5'	6/18/2014	13:27	31.9		Not	Analyzed for T	PH	
TH-4 @ 9'	6/18/2014	13:30	3,744	1,780	14:24	20.0	1	DR
TH-4 @ 10'	6/18/2014	13:35	4,661	2,510	14:47	20.0	1	DR
TH-5 @ 4'	6/18/2014	13:56	27.6		Not	Analyzed for T	PH	
TH-5 @ 9'	6/18/2014	13:58	16.0	39.5	14:52	20.0	1	DR

AES

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: Navajo Allotted Com #1

Date: 9/11/2014

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
SC-1	9/11/2014	15:35	1.7	39.4	16:04	20.0	1	EMS
SC-2	9/11/2014	15:15	1,305	323	16:12	20.0	1	EMS
SC-3	9/11/2014	15:27	142	257	16:10	20.0	1	EMS
SC-4	9/11/2014	16:30	30.7	28.9	16:44	20.0	1	EMS
SC-5	9/11/2014	15:19	950	93.0	16:17	20.0	1	EMS

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Sinh ShL

DF

Dilution Factor

NA

Not Analyzed

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

David of Reme



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: Navajo Allotted Com #1

Date: 9/15/2014

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
SC-6	9/15/2014	10:20	2,954	193	10:53	20.0	1	EMS
SC-7	9/15/2014	10:29	2,803	746	10:56	20.0	1	EMS

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below P Analyst:

Total Petroleum Hydrocarbons - USEPA 418.1

Sinh ShL



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

June 26, 2014

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

FAX

RE: CoP Navajo Allottted Com #1

OrderNo.: 1406A22

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/20/2014 for the analyses presented in the following report.

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

John Caldwell

Supervisor

4901 Hawkins NE

Albuquerque, NM 87109

about Collwell

Analytical Report

Lab Order 1406A22

Date Reported: 6/26/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: TH-4@10'

Project:

CoP Navajo Allottted Com #1

Collection Date: 6/18/2014 1:35:00 PM

Lab ID:

1406A22-001

Matrix: SOIL

Received Date: 6/20/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	950	9.9		mg/Kg	1	6/25/2014 12:29:24 AM	13833
Surr: DNOP	91.8	57.9-140		%REC	1	6/25/2014 12:29:24 AM	13833
EPA METHOD 8015D: GASOLINE RAN	GE					Analyst	NSB
Gasoline Range Organics (GRO)	1100	93		mg/Kg	20	6/25/2014 3:19:44 AM	13836
Surr: BFB	407	80-120	S	%REC	20	6/25/2014 3:19:44 AM	13836
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.46		mg/Kg	20	6/25/2014 3:19:44 AM	13836
Toluene	ND	0.93		mg/Kg	20	6/25/2014 3:19:44 AM	13836
Ethylbenzene	3.6	0.93		mg/Kg	20	6/25/2014 3:19:44 AM	13836
Xylenes, Total	13	1.9		mg/Kg	20	6/25/2014 3:19:44 AM	13836
Surr: 4-Bromofluorobenzene	137	80-120	S	%REC	20	6/25/2014 3:19:44 AM	13836

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 4

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406A22 26-Jun-14

Client: Animas Environmental Project: CoP Navajo Allottted Com #1 Sample ID MB-13833 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: PBS Batch ID: 13833 RunNo: 19428 Prep Date: 6/23/2014 Analysis Date: 6/23/2014 SeqNo: 561973 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Surr: DNOP 7.5 10.00 75.3 140 Sample ID LCS-13833 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 13833 RunNo: 19428 Prep Date: 6/23/2014 Analysis Date: 6/23/2014 SeqNo: 561976 Units: mg/Kg Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 46 10 50.00 0 92.3 68.6 130 Surr: DNOP 3.6 5.000 72.8 57.9 140 Sample ID MB-13859 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics PBS Client ID: Batch ID: 13859 RunNo: 19466 Prep Date: 6/24/2014 Analysis Date: 6/24/2014 SeqNo: 563203 Units: %REC %REC Analyte Result PQL SPK value SPK Ref Val LowLimit %RPD **RPDLimit** Qual HighLimit Surr: DNOP 9.6 10.00 96.4 57.9 140 Sample ID LCS-13859 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 13859 RunNo: 19466 Prep Date: 6/24/2014 Analysis Date: 6/24/2014 SeqNo: 563204 Units: %REC Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 5.000 Surr: DNOP 4.7 57.9 946 140 Sample ID MB-13809 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics PBS Client ID: Batch ID: 13809 RunNo: 19464 Prep Date: 6/20/2014 Analysis Date: 6/24/2014 SeqNo: 563212 Units: %REC SPK value SPK Ref Val Analyte %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Surr: DNOP 8.1 10.00 57.9 140 81.1 Sample ID LCS-13809 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 13809 RunNo: 19464 Prep Date: 6/20/2014 Analysis Date: 6/24/2014 SeqNo: 563213 Units: %REC SPK Ref Val %REC Analyte Result PQL SPK value LowLimit HighLimit %RPD **RPDLimit** Qual

Qualifiers:

Surr: DNOP

* Value exceeds Maximum Contaminant Level

3.8

5.000

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

57.9

140

ND Not Detected at the Reporting Limit

76.7

P Sample pH greater than 2. RL Reporting Detection Limit Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406A22 26-Jun-14

Client:

Animas Environmental

Project:

CoP Navajo Allottted Com #1

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

PBS Client ID:

Batch ID: R19462

RunNo: 19462

Prep Date:

Analysis Date: 6/24/2014

SegNo: 563599

98.3

Units: %REC

1000

HighLimit

Analyte

Result

SPK value SPK Ref Val %REC

80

LowLimit

LowLimit

120

%RPD

RPDLimit Qual

Surr: BFB

980

SampType: LCS

PQL

PQL

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Sample ID 2.5UG GRO LCS

Batch ID: R19462

RunNo: 19462

Prep Date:

Analysis Date: 6/24/2014

SeqNo: 563600

Units: %REC

Analyte

Result 1100 SPK value SPK Ref Val 1000

%REC

107

120

%RPD HighLimit

Qual

Surr: BFB

Client ID:

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 19478

Prep Date: 6/23/2014

Sample ID MB-13836

Batch ID: 13836 Analysis Date: 6/24/2014

SeqNo: 563632

LowLimit

80

Units: mg/Kg

HighLimit %RPD

Analyte

SPK value SPK Ref Val %REC PQL

120

RPDLimit

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

PBS

ND 850

Result

5.0 1000

85.0

80

Sample ID LCS-13836

LCSS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 19478

Client ID:

Prep Date: 6/23/2014 Batch ID: 13836

Units: mg/Kg

Analyte

Analysis Date: 6/24/2014 PQL

5.0

SeqNo: 563633 %REC

LowLimit

HighLimit

%RPD

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

Result 26 1000 SPK value SPK Ref Val 25.00

1000

102 100 71.7 80 134 120

Oualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit Sample pH greater than 2.

ND

Reporting Detection Limit

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406A22

26-Jun-14

Client:

Animas Environmental

Project:

CoP Navajo Allottted Com #1

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

I owl imit

80

Client ID:

PBS

Batch ID: R19462

PQL

RunNo: 19462

Analysis Date: 6/24/2014

SeqNo: 563614

Units: %REC

Prep Date:

%REC

Analyte

Result

SPK value SPK Ref Val

SPK Ref Val

HighLimit

%RPD **RPDLimit** Qual

Surr: 4-Bromofluorobenzene

1.1

1.000

110

120

Sample ID 100NG BTEX LCS

SampType: LCS

TestCode: EPA Method 8021B: Volatiles

%RPD

%RPD

Client ID:

LCSS

Batch ID: R19462

PQL

RunNo: 19462

120

Prep Date:

Analysis Date: 6/24/2014

1.2

Result

Result

SPK value

1.000

SeqNo: 563615

%REC

117

Units: %REC HighLimit

RPDLimit Qual

Qual

Analyte Surr: 4-Bromofluorobenzene

Sample ID MB-13836

SampType: MBLK

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 8021B: Volatiles

RunNo: 19478

LowLimit

80

Prep Date: 6/23/2014

Client ID:

PBS

Batch ID: 13836

PQL

Analysis Date: 6/24/2014

SeqNo: 563675

Units: mg/Kg HighLimit

RPDLimit

Analyte Benzene Toluene Ethylbenzene

ND 0.050 ND 0.050 ND 0.050

Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.90

898

80

80

80

80

TestCode: EPA Method 8021B: Volatiles

120

Sample ID LCS-13836 Client ID: LCSS

SampType: LCS Batch ID: 13836

0

0

RunNo: 19478

94.4

98.4

107

Prep Date: 6/23/2014 Analysis Date: 6/24/2014 SeqNo: 563676 SPK value SPK Ref Val %REC LowLimit Analyte Result PQL Benzene 0.98 0.050 1.000 0 97.5 80 94.8 80 Toluene 0.95 0.050 1.000 0

Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene

0.050 0.94 3.0 0.10 1.1

1.000 3.000

1.000

1.000

Units: mg/Kg HighLimit

120

120

120

%RPD **RPDLimit** Qual 120 120

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Value above quantitation range E
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- Reporting Detection Limit RL

Page 4 of 4



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number	: 1406A22		RcptNo: 1	
Received by/date: 0.7- 00/20/14				
Logged By: Ashley Gallegos 6/20/2014 8:00:00 AM		A		
Completed By: Ashley Gallegos 6/21/2014 2:44:30 PM		A		
Reviewed By: 0 0 23 14				
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			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗸	No 🗌	NA 🗆	
_				
Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗸	No L	NA L	
6. Sample(s) in proper container(s)?	Yes 🗸	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗌		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottles?	Yes 🗌	No 🗸	NA 🗆	
10.VOA vials have zero headspace?	Yes	No 🗌	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes	No 🗸	# of processed	
			# of preserved bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No L	for pH: (<2 or >12 unless r	noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No 🗌	Adjusted?	iotody
14. Is it clear what analyses were requested?	Yes 🗸	No 🗌	-	
15. Were all holding times able to be met?	Yes 🗸	No 🗌	Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable)				*
Special Handling (if applicable)	Yes	м. П	NA 🗹	
16. Was client notified of all discrepancies with this order?	Yes 🗀	No L	NA 💌	
Person Notified: Date:				
By Whom: Via:	eMail	Phone Fax	In Person	
Regarding:		W 10. 10		
Client Instructions:				
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	I	
1 1.8 Good Yes	Coai Date	Oightu by		

	hain	-of-Cu	istody Record	Turn-Around	Time:								_		/TF	-		ae.		
Client:			nvironmental	Standard					Sant Is									MEI RA		RY
	Servi	ies L	LC	Project Name							W	ww.h	allen	viron	men	tal.c	om			
Mailing	Address	624	E Comanche	-	Jo Allotted	Com 3	1		490	1 Ha		s NE						109		
Farr	nington	1 NN	87401	Project #:					Tel	. 508	5-345	-3975	i	Fax	505-	-345	-4107	7		
Phone :	#: 505	564	2281	1									Anal	S - 1 - 1 - 2		10000	100 m			
email o				Project Mana	iger:				<u>S</u>	6	T								T	
QA/QC I	Package:		☐ Level 4 (Full Validation)	D Watso				(8021)	3as on	O MR		SIMS)		04,80	PCB's					
Accredi			Level 4 (I dil Validation)				,	130) I	N.		8)2,F	80821					
□ NEL		□ Othe	er	Sampler: D	Yes Yes	□ No		即	립)		8.1	4.1)		N.	80					2
□ EDD				Sample Tem	perature:	1 0 ·	and a second state of the second	+ LL(d)	+ (GR	41	50 8	S	9	es/		OA			1 3
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HE	AL No. 0A22	BTEX +	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO DRO) MRO	TPH (Method 418.1)	EDB (Method 504.1) PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides /	8260B (VOA)	8270 (Semi-VOA)			Air Rubblos O
-18-14	1335	Sorl	TH-4@10'	1-4ozjar	cold	-	-001	X		X										
																			\perp	
									_	-	_	+		_				_	+	+
										+		+	\vdash				\vdash	_	+	++
										+	\top									
Pate:	Time:	Relinquishe	uh Watson	Received by: Received by:	# (Date Date	Time / 1750 Time / 4866	Bull WO: Aveo	narks: h (103	59	309		pos	repe ser 19	ws.	n'. A	4.ch	iena La	n'	, ,
/19/H	1815 necessary,	samples subn	nitted to Hall Environmental may be subc	ontracted to other ad	ccredited laboratorie		s as notice of this		oility. Ar											

is possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

OrderNo.: 1406A23

June 30, 2014

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

FAX

RE: CoP Navajo Allotted Com #1

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/20/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1406A23

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: CoP Navajo Allotted Com #1

Collection Date: 6/18/2014 8:50:00 AM

Lab ID: 1406A23-001

Matrix: SOIL Received Date: 6/20/2014 8:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	400	9.9		mg/Kg	1	6/25/2014 12:51:16 AM	13833
Surr: DNOP	88.4	57.9-140		%REC	1	6/25/2014 12:51:16 AM	13833
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	380	49		mg/Kg	10	6/25/2014 3:49:49 AM	13836
Surr: BFB	288	80-120	S	%REC	10	6/25/2014 3:49:49 AM	13836
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.24		mg/Kg	10	6/25/2014 3:49:49 AM	13836
Toluene	ND	0.49		mg/Kg	10	6/25/2014 3:49:49 AM	13836
Ethylbenzene	1.1	0.49		mg/Kg	10	6/25/2014 3:49:49 AM	13836
Xylenes, Total	11	0.98		mg/Kg	10	6/25/2014 3:49:49 AM	13836
Surr: 4-Bromofluorobenzene	124	80-120	S	%REC	10	6/25/2014 3:49:49 AM	13836
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30		mg/Kg	20	6/25/2014 12:36:16 PM	13886

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- 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 Page 1 of 5
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406A23

30-Jun-14

Client:

Animas Environmental

Project:

CoP Navajo Allotted Com #1

Sample ID MB-13886

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 13886

PQL

RunNo: 19526

Prep Date: 6/25/2014

Analysis Date: 6/25/2014

Units: mg/Kg

%RPD

Analyte

SeqNo: 565224

HighLimit

RPDLimit Qual

Chloride

ND 1.5

Sample ID LCS-13886

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 13886

RunNo: 19526

Units: mg/Kg

Prep Date: 6/25/2014

SeqNo: 565225

Analyte

Analysis Date: 6/25/2014

Qual

SPK value SPK Ref Val

SPK value SPK Ref Val %REC

LowLimit HighLimit %RPD **RPDLimit**

PQL

%REC

Chloride 94.4 15.00

Oualifiers:

R

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- Analyte detected below quantitation limits 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Sample pH greater than 2 Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406A23

30-Jun-14

Client:

Animas Environmental

Project: CoP Na	avajo Allotted Com #1	
Sample ID MB-13833	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13833	RunNo: 19428
Prep Date: 6/23/2014	Analysis Date: 6/23/2014	SeqNo: 561973 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) Surr: DNOP	ND 10 7.5 10.00	75.3 57.9 140
Sample ID LCS-13833	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13833	RunNo: 19428
Prep Date: 6/23/2014	Analysis Date: 6/23/2014	SeqNo: 561976 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	46 10 50.00	0 92.3 68.6 130
Surr: DNOP	3.6 5.000	72.8 57.9 140
Sample ID MB-13880	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13880	RunNo: 19466
Prep Date: 6/25/2014	Analysis Date: 6/25/2014	SeqNo: 563896 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.4 10.00	84.2 57.9 140
Sample ID LCS-13880	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13880	RunNo: 19466
Prep Date: 6/25/2014	Analysis Date: 6/25/2014	SeqNo: 563897 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.1 5.000	82.5 57.9 140

Qualifiers:

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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406A23

30-Jun-14

Client:

Animas Environmental

Project:

Prep Date:

CoP Navajo Allotted Com #1

Sample ID MB-13836

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

6/23/2014

Batch ID: 13836

RunNo: 19478

Analysis Date: 6/24/2014

SeqNo: 563632

80

LowLimit

LowLimit

Units: mg/Kg

Analyte

Result PQL ND 5.0 SPK value SPK Ref Val %REC HighLimit

RPDLimit

Qual

Gasoline Range Organics (GRO) Surr: BFB

850

1000

0

85.0

120

Sample ID LCS-13836

SampType: LCS

RunNo: 19478

TestCode: EPA Method 8015D: Gasoline Range

%RPD

Client ID: LCSS

Batch ID: 13836

Prep Date:

6/23/2014

Analysis Date: 6/24/2014

SeqNo: 563633 %REC

Units: mg/Kg

HighLimit %RPD

Analyte Gasoline Range Organics (GRO)

26 5.0

PQL

1000

102 100 71.7 134 120 **RPDLimit**

Surr: BFB

1000

Result

25.00

SPK value SPK Ref Val

Qual

Qualifiers:

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406A23**

30-Jun-14

Client:

Animas Environmental

Project:

CoP Navajo Allotted Com #1

Sample ID MB-13836	CompT	ype: ME	OL IV	Tos	tCodo: El	OA Mothod	8021B: Volat	iloc		
Sample ID MB-13836	Sampi	ype. IVIE	BLK	Tes	icode. Ei	iles				
Client ID: PBS	Batch	n ID: 138	336	F	RunNo: 1	9478				
Prep Date: 6/23/2014	Analysis D	oate: 6/2	24/2014	5	SeqNo: 50	63675	Units: mg/K	g		
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	0.90		1.000		89.8	80	120			
Sample ID LCS-13836	Samp1	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 138	836	F	RunNo: 1	9478				

Sample ID LCS-13836	SampType: LCS TestCode: EPA Method 802							iles				
Client ID: LCSS	Batch ID: 13836 RunNo: 19478											
Prep Date: 6/23/2014	Analysis D	ate: 6/	24/2014	S	SeqNo: 50	63676	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.98	0.050	1.000	0	97.5	80	120					
Toluene	0.95	0.050	1.000	0	94.8	80	120					
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120					
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120					
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120					

Qualifiers:

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

Page 5 of 5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1406A23 Client Name: Animas Environmental Received by/date: Logged By: **Ashley Gallegos** 6/20/2014 8:00:00 AM 6/21/2014 2|49:24 PM Completed By: Ashley Gallegos Reviewed By: Chain of Custody No 🗌 Not Present V 1. Custody seals intact on sample bottles? No 🗌 Not Present Yes 🗸 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗌 No Yes V 4. Was an attempt made to cool the samples? NA 🗌 No 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗌 6. Sample(s) in proper container(s)? Yes 🗸 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 No V 9. Was preservative added to bottles? Yes No 🗌 No VOA Vials 10.VOA vials have zero headspace? No V Yes 11. Were any sample containers received broken? # of preserved bottles checked for pH: Yes No 🔲 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No [13. Are matrices correctly identified on Chain of Custody? Yes No 🗌 V 14. Is it clear what analyses were requested? Checked by: No 🗌 15. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1.8 Good Yes

C	hain	-of-Cu	stody Record	Turn-Around	Time:								=	NÍ V	/TE	20	BII	ME	NT	A I	
Client: Animas Environmental		X Standard □ Rush					_										TO		,		
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Mailing	Address	1216 6	Comanther	COPN	111.11.1	0 #1		400	1 🗆									7100			
-				CoP Navayo Allotted Com#1				4901 Hawkins NE - Albuquerque, NM 87109													
	VMINE	ton N	M 81401	,				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request											1078	48	
Phone #: 505 564, 2281 email or Fax#:		Project Mana	ner														F				
QA/QC Package:			i roject mane	ger.		(8021)	(dluo	/WRO					SO,	J's							
Standard			D Wadso	n		\$ (80	TPH (Gas	000			SIMS)		PO4	PCB's			3				
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□ NELAP □ Other			On Ice: No				+	8	18.	04.	82		J3,N	-		(A)	2			or N	
□ EDD (Type)			Sample Temperature:			1			od 4	od 5	0 0	etals	Ž,	side	(A	-\	5)			>	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1400A23	BTEX + ME	BTEX + MI	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	300,0			Air Buhhles
6-18-14	0850	Soul	SC-1	1-402 Jav	cold	-001	X		X									X			T
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-	necessary,	amples subn	nitted to Hall Environmental may be subc	ontracted to other ac	credited laboratorie	s. This serves as notice of this	possit	oility. Ar	nv sub	-contr	acted o	data v	will be	clear	v nota	ted on	the ar	nalytica	report		



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

OrderNo.: 1409571

September 15, 2014

Emilee Skyles Animas Environmental 624 East Comanche Farmington, NM 87401 TEL: (505) 564-2281

FAX

RE: CoP Navajo Allotted Com #1

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/12/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1409571

Date Reported: 9/15/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: CoP Navajo Allotted Com #1

Collection Date: 9/11/2014 3:35:00 PM

Lab ID: 1409571-001

Matrix: MEOH (SOIL) Received Date: 9/12/2014 6:30:00 AM

Analyses	Result	RL Qual Units		DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analyst	BCN	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/12/2014 12:08:03 PM	15253	
Surr: DNOP	87.1	57.9-140	%REC	1	9/12/2014 12:08:03 PM	15253	
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	DJF	
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	9/13/2014 4:05:52 PM	R21187	
Surr: BFB	91.3	80-120	%REC	1	9/13/2014 4:05:52 PM	R21187	
EPA METHOD 8021B: VOLATILES					Analyst	DJF	
Benzene	ND	0.035	mg/Kg	1	9/13/2014 4:05:52 PM	R21187	
Toluene	ND	0.035	mg/Kg	1	9/13/2014 4:05:52 PM	R21187	
Ethylbenzene	ND	0.035	mg/Kg	1	9/13/2014 4:05:52 PM	R21187	
Xylenes, Total	ND	0.071	mg/Kg	1	9/13/2014 4:05:52 PM	R2118	
Surr: 4-Bromofluorobenzene	98.2	80-120	%REC	1	9/13/2014 4:05:52 PM	R21187	

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1409571

Date Reported: 9/15/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP Navajo Allotted Com #1

Collection Date: 9/11/2014 3:15:00 PM

Lab ID: 1409571-002

Matrix: MEOH (SOIL) Received Date: 9/12/2014 6:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	49	10		mg/Kg	1	9/12/2014 12:51:03 PM	15253
Surr: DNOP	91.3	57.9-140		%REC	1	9/12/2014 12:51:03 PM	15253
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	DJF
Gasoline Range Organics (GRO)	37	3.5		mg/Kg	1	9/13/2014 5:32:00 PM	R21187
Surr: BFB	382	80-120	S	%REC	1	9/13/2014 5:32:00 PM	R21187
EPA METHOD 8021B: VOLATILES						Analyst	DJF
Benzene	ND	0.035		mg/Kg	1	9/13/2014 5:32:00 PM	R21187
Toluene	ND	0.035		mg/Kg	1	9/13/2014 5:32:00 PM	R21187
Ethylbenzene	ND	0.035		mg/Kg	1	9/13/2014 5:32:00 PM	R21187
Xylenes, Total	0.18	0.069		mg/Kg	1	9/13/2014 5:32:00 PM	R21187
Surr: 4-Bromofluorobenzene	117	80-120		%REC	1	9/13/2014 5:32:00 PM	R21187

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1409571

Date Reported: 9/15/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: CoP Navajo Allotted Com #1

Collection Date: 9/11/2014 3:27:00 PM

Lab ID: 1409571-003

Matrix: MEOH (SOIL) Received Date: 9/12/2014 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/12/2014 1:15:17 PM	15253
Surr: DNOP	95.7	57.9-140	%REC	1	9/12/2014 1:15:17 PM	15253
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	9/13/2014 6:29:16 PM	R21187
Surr: BFB	105	80-120	%REC	1	9/13/2014 6:29:16 PM	R21187
EPA METHOD 8021B: VOLATILES					Analyst	DJF
Benzene	ND	0.033	mg/Kg	1	9/13/2014 6:29:16 PM	R21187
Toluene	ND	0.033	mg/Kg	1	9/13/2014 6:29:16 PM	R21187
Ethylbenzene	ND	0.033	mg/Kg	1	9/13/2014 6:29:16 PM	R21187
Xylenes, Total	ND	0.067	mg/Kg	1	9/13/2014 6:29:16 PM	R21187
Surr: 4-Bromofluorobenzene	99.0	80-120	%REC	1	9/13/2014 6:29:16 PM	R21187

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Por

Page 3 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1409571

Date Reported: 9/15/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: CoP Navajo Allotted Com #1

Collection Date: 9/11/2014 4:30:00 PM

Lab ID: 1409571-004

Matrix: MEOH (SOIL) Received Date: 9/12/2014 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/12/2014 1:37:02 PM	15253
Surr: DNOP	92.1	57.9-140	%REC	1	9/12/2014 1:37:02 PM	15253
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	9/13/2014 7:55:16 PM	R21187
Surr: BFB	91.9	80-120	%REC	1	9/13/2014 7:55:16 PM	R21187
EPA METHOD 8021B: VOLATILES					Analyst	DJF
Benzene	ND	0.032	mg/Kg	1	9/13/2014 7:55:16 PM	R21187
Toluene	ND	0.032	mg/Kg	1	9/13/2014 7:55:16 PM	R21187
Ethylbenzene	ND	0.032	mg/Kg	1	9/13/2014 7:55:16 PM	R21187
Xylenes, Total	ND	0.065	mg/Kg	1	9/13/2014 7:55:16 PM	R21187
Surr: 4-Bromofluorobenzene	99.4	80-120	%REC	1	9/13/2014 7:55:16 PM	R21187

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 4 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1409571

Date Reported: 9/15/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP Navajo Allotted Com #1

Collection Date: 9/11/2014 3:19:00 PM

Lab ID: 1409571-005

Matrix: MEOH (SOIL) Received I

Received Date: 9/12/2014 6:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/12/2014 1:58:36 PM	15253
Surr: DNOP	86.8	57.9-140		%REC	1	9/12/2014 1:58:36 PM	15253
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	DJF
Gasoline Range Organics (GRO)	37	3.1		mg/Kg	1	9/13/2014 8:23:49 PM	R21187
Surr: BFB	308	80-120	S	%REC	1	9/13/2014 8:23:49 PM	R21187
EPA METHOD 8021B: VOLATILES						Analyst	DJF
Benzene	ND	0.031		mg/Kg	1	9/13/2014 8:23:49 PM	R21187
Toluene	ND	0.031		mg/Kg	1	9/13/2014 8:23:49 PM	R21187
Ethylbenzene	0.072	0.031		mg/Kg	1	9/13/2014 8:23:49 PM	R21187
Xylenes, Total	0.44	0.061		mg/Kg	1	9/13/2014 8:23:49 PM	R21187
Surr: 4-Bromofluorobenzene	117	80-120		%REC	1	9/13/2014 8:23:49 PM	R21187

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 5 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1409571

15-Sep-14

Client:

Animas Environmental

Project:

CoP Navajo Allotted Com #1

Sample ID LCS-15253	SampT	ype: LC	S	Tes	Code: El	PA Method	8015D: Diese	el Range (Organics	
Client ID: LCSS	Batch	ID: 15	253	R	tunNo: 2	1164				
Prep Date: 9/12/2014	Analysis D	ate: 9/	12/2014	S	eqNo: 6	16189	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.1	68.6	130			
Surr: DNOP	3.8		5.000		76.7	57.9	140			

Sample ID	1409571-001AMS	SampT	ype: MS	3	Test	Code: El	PA Method	8015D: Diese	I Range C	Organics	
Client ID:	SC-1	Batch	ID: 15	253	R	RunNo: 2	1164				
Prep Date:	9/12/2014	Analysis D	ate: 9/	12/2014	S	SeqNo: 6	16742	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	rganics (DRO)	48	10	50.15	0	95.6	40.1	152			
Surr: DNOP		4.3		5.015		86.1	57.9	140			

Sample ID	1409571-001AMSD	SampTy	/pe: MS	SD	Test	Code: El	PA Method	8015D: Diese	el Range C	Organics	
Client ID:	SC-1	Batch	ID: 15	253	R	tunNo: 2	1164				
Prep Date:	9/12/2014	Analysis Da	ate: 9/	12/2014	S	SeqNo: 6	16743	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	46	9.9	49.70	0	93.1	40.1	152	3.59	32.1	
Surr: DNOP		4.2		4.970		84.3	57.9	140	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Page 6 of 9

P Sample pH greater than 2.

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1409571

15-Sep-14

Client:

Animas Environmental

Project:

CoP Navajo Allotted Com #1

Sample ID MB-15236

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

80

Client ID:

PBS

Batch ID: 15236

RunNo: 21187

%RPD

Prep Date:

9/11/2014

SeqNo: 616826

Units: %REC

Analyte

Analysis Date: 9/13/2014

%REC

913

120

Result

910

PQL

HighLimit

SPK value SPK Ref Val

1000

1000

RPDLimit

Qual

Surr: BFB

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

LCSS

9/11/2014

Sample ID LCS-15236

Batch ID: 15236

RunNo: 21187

120

Units: %REC

Analyte

Result

Analysis Date: 9/13/2014

SeqNo: 616827

LowLimit

80

%RPD

Surr: BFB

970

PQL

SPK value SPK Ref Val

%REC 97.4

HighLimit

RPDLimit

Qual

Prep Date:

Sample ID MB-15236 MK PBS

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 21187

Prep Date:

Client ID:

Batch ID: R21187

Analysis Date: 9/13/2014

SeqNo: 616829

Units: mg/Kg

120

Analyte

Gasoline Range Organics (GRO)

Result PQL

ND

910

SPK value SPK Ref Val %REC LowLimit

913

80

HighLimit %RPD

RPDLimit

Qual

Surr: BFB

1000

TestCode: EPA Method 8015D: Gasoline Range

Sample ID LCS-15236 MK Client ID:

LCSS

SampType: LCS Batch ID: R21187

5.0

RunNo: 21187

25

970

Result

Result

20

710

20

Analysis Date: 9/13/2014

SeqNo: 616830

65.8

80

Units: mg/Kg

139

120

Prep Date: Analyte

Result

SPK value SPK Ref Val POL

Gasoline Range Organics (GRO)

5.0

25.00 0 1000

SPK Ref Val

0

%REC LowLimit 99.6

974

HighLimit %RPD

RPDLimit Qual

Surr: BFB

Sample ID 1409571-001AMS

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

Prep Date: Analyte

Client ID: SC-1

Batch ID: R21187 Analysis Date: 9/13/2014

RunNo: 21187 SeqNo: 616832

Units: mg/Kg

Gasoline Range Organics (GRO) Surr: BFB

SC-1

700

PQL

3.5

17.64 705.7

SPK value SPK Ref Val %REC 116

LowLimit 71.8

HighLimit %RPD 132

120

RPDLimit Qual

Client ID:

Prep Date:

Sample ID 1409571-001AMSD

SampType: MSD

Analysis Date: 9/13/2014

PQL

3.5

Batch ID: R21187

SPK value

17.64

705.7

RunNo: 21187

%REC

114

100

992

SegNo: 616833

TestCode: EPA Method 8015D: Gasoline Range

80

LowLimit

71.8

80

Units: mg/Kg

132

120

HighLimit

%RPD

1.68

0

Qual

RPDLimit

20

0

Page 7 of 9

Gasoline Range Organics (GRO) Surr: BFB

Analyte

Qualifiers: Value exceeds Maximum Contaminant Level

E Value above quantitation range Analyte detected below quantitation limits Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit P Sample pH greater than 2.

Reporting Detection Limit

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits R S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#:

1409571

15-Sep-14

Client:

Animas Environmental

P. C. P.V.	. All	1.0	// •							
Project: CoP Nav	ajo Allotte	d Com	#1							
Sample ID MB-15236	SampT	уре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volat	tiles		
Client ID: PBS	Batch	ID: 152	236	F	RunNo: 21	1187				
Prep Date: 9/11/2014	Analysis D	ate: 9/	13/2014	5	SeaNo: 61	16854	Units: %RE	С		
	Result			SPK Ref Val		LowLimit		%RPD	RPDLimit	Qual
Analyte Surr: 4-Bromofluorobenzene	0.99	PQL	1.000	SFR Rei Vai	99.3	80	HighLimit 120	MRFD	KFDLIIIII	Quai
	2271324.3		ASSAULTE							
Sample ID LCS-15236	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: 15	236	F	RunNo: 2	1187				
Prep Date: 9/11/2014	Analysis D	ate: 9/	13/2014	5	SeqNo: 6	16855	Units: %RE	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID MB-15236 MK	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: R2	1187	F	RunNo: 2	1187				
Prep Date:	Analysis D	ate: 9/	13/2014	5	SeqNo: 6'	16858	Units: mg/k	(g		
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	0.99		1.000		99.3	80	120			
Sample ID LCS-15236 MK	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: R2	1187	F	RunNo: 2	1187				
Prep Date:	Analysis D	ate: 9/	13/2014	5	SeqNo: 6	16859	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID 1409571-003AMS	SampT	уре: М	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: SC-3	Batch	ID: R2	1187	F	RunNo: 2	1187				
Prep Date:	Analysis D	ate: 9/	13/2014	5	SeqNo: 6	16863	Units: mg/k	⟨ g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.033	0.6689	0	103	77.4	142			
Toluene	0.70	0.033	0.6689	0.01043	103	77	132			
22-00 W					10-	-	46.1			

Qualifiers:

Ethylbenzene

Xylenes, Total

* Value exceeds Maximum Contaminant Level.

0.71

2.2

0.033

0.067

0.6689 0.007592

0.02199

2.007

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

77.6

77.4

134

132

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

105

106

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1409571

15-Sep-14

Client:

Animas Environmental

Project:

CoP Navajo Allotted Com #1

Sample ID 1409571-003AMS

SampType: MS

TestCode: EPA Method 8021B: Volatiles

LowLimit

Client ID:

SC-3

Batch ID: R21187

PQL

RunNo: 21187

Prep Date:

Analysis Date: 9/13/2014

SeqNo: 616863

Units: mg/Kg

Analyte

Result

%REC

SPK value SPK Ref Val

HighLimit %RPD

RPDLimit

Qual

Qual

Surr: 4-Bromofluorobenzene

0.69

0.6689

104

80 120

Sample ID 1409571-003AMSD

Prep Date:

Client ID: SC-3 SampType: MSD

Analysis Date: 9/13/2014

Batch ID: R21187

RunNo: 21187

SeqNo: 616864

TestCode: EPA Method 8021B: Volatiles

Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	0.67	0.033	0.6689	0	100	77.4	142	2.91	20
Toluene	0.68	0.033	0.6689	0.01043	100	77	132	2.81	20
Ethylbenzene	0.69	0.033	0.6689	0.007592	102	77.6	134	2.13	20
Xylenes, Total	2.1	0.067	2.007	0.02199	102	77.4	132	3.69	20
Surr: 4-Bromofluorobenzene	0.71		0.6689		105	80	120	0	0

Qualifiers:

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

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Animas Enviro	nmental	Work Orde	r Number	1409571			RcptNo:	1
Received by/d	late 091	12/14							
Logged By:	Lindsay Man	gin	9/12/2014 6:	30:00 AM		Jamby H			
Completed By	: Lindsay Man	gin	9/12/2014 6:	57:35 AM		Amaky 44	(المواقع		
Reviewed By:	AT	91/2/1	4				U		40
Chain of Cu		111, 51.			-				
1. Custody s	eals intact on sam	ple bottles?			Yes	No [Not Present	
2. Is Chain o	f Custody complet	te?			Yes 🗸	No		Not Present	
3. How was t	the sample deliver	ed?			Courier				
Log In									
4. Was an a	ttempt made to co	ol the sample	es?		Yes 🗹	No [-	NA 🗆	
5. Were all s	samples received a	at a temperat	ure of >0° C to 6	.0°C	Yes 🗹	No [NA 🗆	
6. Sample(s) in proper contain	er(s)?			Yes 🗹	No [
7. Sufficient	sample volume for	r indicated te	st(s)?		Yes 🗸	No [
8. Are sample	es (except VOA a	nd ONG) pro	perly preserved?		Yes 🗸	No			
9. Was prese	ervative added to b	pottles?			Yes	No 5	V	NA 🗆	
10.VOA vials	have zero headsp	ace?			Yes	No [No VOA Vials	
11. Were any	sample container	s received br	oken?		Yes	No 9	~	# of preserved	
12.Does pape	erwork match bottl	le labels?			Yes 🗹	No [bottles checked for pH:	
(Note disc	repancies on chair	n of custody)					_		r >12 unless noted)
	es correctly identifies				Yes 🗹	No L	-	Adjusted?	-
	what analyses wer		?		Yes 🗹	No L		Oh a alaa d haa	
	olding times able t fy customer for au				Yes 🗸	No L	_	Checked by:	
Special Hay	ndling (if appli	ioobio\							
	t notified of all disc		ith this ardar?		Yes	No [NA 🗸	
		oreparicles w	itir tiris order r	-	165	NO		NA E	
	son Notified:	and the hardware of	or the heart agency when the	Date:		er mere n			
	Whom:	of table and A Transfer a law 1 and 1		Via:	eMail	Phone F	Fax	In Person	
	arding: nt Instructions:	4. 4		Caraman Andrews (1914)	ere following som a bodit on to		1141 - 141	And the second	
17. Additiona			Commence of the Control of		. e. alex . b . a. e.			Carlo South St. C. C.	
18. Cooler Ir	No Temp ℃	Condition	Seal Intact Se	eal No	Seal Date	Signed By	у		
	1 1	-004	. 50	-					

C	hain	-of-Cu	stody Record	Tuin-Around	illie.		Ι.			14	IAI		E	NIV	TE	20	NI P	4E	NT	A.I	
Client	nimas	Environ	mental Services, LLC	☐ Standard	Rush	sane-day led Com #1				A	N	AL	YS		S L	AE	30			RY	
Mailing	Address	604	Pinm	COPN	lavajo Allet	ted Com # 1		490	01 H								ы м 87	109			
7	armin	lation,	NM 87401	Project #:					el. 50								4107				_
Phone #	#: 50	15-561	1-2281									A	naly	sis	Req	uest					
email or				Project Mana			0	(yJu	M					04)							
QA/QC F	Package: dard		□ Level 4 (Full Validation)		u Skyles		TIMB's (8021)	(Gas or	30			SIMS)		,PO4,SC	2 PCB's						
Accredi		□ Othe	r	Sampler: E -	Skyles	T-SUNTE PARTY		TPH		8.1)	4.1)	3270		3,NO2	808						Ê
□ EDD			- Art	Sample Tem	perature: Z	All Andrews Complete		+	GR.	41	150	or 8	SIS	NO N	es		0				7
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		BTEX +-MTB	BTEX +-WTBE + TPH (Gas only)	TPH 8015B (GRO) DRO) WRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
9/11/14	15:35	Soil	9C-1	1-40 Z	W.DH	-001	X		X												
9/11/19	15:15	Soil	SC-2 SC-3 SC-4	TIONULL	110 114	-002	X		X												
1/11/14	15:27	Soil	SC-3	1-400 MeDHK+	cool Me OH	-003	X		X												
9/11/14			SC-4	1-402 MeDHlat	Cool Well	-004	X		X												
9/11/14	15:19	Soil	SC-5	1-402 MeDHLAT 1-402 MEDHLAT 1-402 MUNTET	with	-005	X	Į,	X												
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Date:	Time:	Relinguish	LShyL	Received by:	- Valte	9/11/14 1800	W	narks	202				_0^		156	e: K	-GA	Pell	ŧ.		
Dete:	Time:	Relinquish	ed by:	Received by	X ~	Plate Time 9/12/14 0630		EA: LPGR		ke S	mil	th			•			150 WH)	CHAI	尼艺	
11119	necessary	samples subr	nitted to Hall Environmental may be subo	contracted to other a	consdited laboratorie	es. This serves as notice of thi	s possi	bility	Δην εμ	h-cont	racted	l data	will be	clear	ly note	ated or	the a	nalytica	Lebot		_



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

September 23, 2014

Emilee Skyles Animas Environmental Services 624 East Comanche Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: CoP Navajo Alloted Com #1 OrderNo.: 1409706

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/16/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1409706

Date Reported: 9/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: CoP Navajo Alloted Com #1

Lab ID: 14

1409706-001

Client Sample ID: SC-7

Collection Date: 9/15/2014 10:20:00 AM

Received Date: 9/16/2014 7:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	50	10		mg/Kg	1	9/16/2014 2:59:30 PM	15310
Surr: DNOP	111	57.9-140		%REC	1	9/16/2014 2:59:30 PM	15310
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	DJF
Gasoline Range Organics (GRO)	39	7.2		mg/Kg	2	9/16/2014 11:22:25 AM	R21235
Surr: BFB	245	80-120	S	%REC	2	9/16/2014 11:22:25 AM	R21235
EPA METHOD 8021B: VOLATILES						Analyst	DJF
Benzene	ND	0.072		mg/Kg	2	9/16/2014 11:22:25 AM	R21235
Toluene	ND	0.072		mg/Kg	2	9/16/2014 11:22:25 AM	R21235
Ethylbenzene	ND	0.072		mg/Kg	2	9/16/2014 11:22:25 AM	R21235
Xylenes, Total	0.19	0.14		mg/Kg	2	9/16/2014 11:22:25 AM	R21235
Surr: 4-Bromofluorobenzene	106	80-120		%REC	2	9/16/2014 11:22:25 AM	R21235

Matrix: SOIL

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 5

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1409706

Date Reported: 9/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Animas Environmental Services

Lab ID: 1409706-002

Project: CoP Navajo Alloted Com #1

Matrix: SOIL

Client Sample ID: SC-6

Collection Date: 9/15/2014 10:29:00 AM

Received Date: 9/16/2014 7:00:00 AM

Analyses	Result	sult RL Qual Units			DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	66	9.8		mg/Kg	1	9/16/2014 3:29:53 PM	15310
Surr: DNOP	108	57.9-140		%REC	1	9/16/2014 3:29:53 PM	15310
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	DJF
Gasoline Range Organics (GRO)	420	6.1		mg/Kg	2	9/16/2014 11:51:05 AM	R21235
Surr: BFB	856	80-120	S	%REC	2	9/16/2014 11:51:05 AM	R21235
EPA METHOD 8021B: VOLATILES						Analyst	DJF
Benzene	0.37	0.061		mg/Kg	2	9/16/2014 11:51:05 AM	R21235
Toluene	0.21	0.061		mg/Kg	2	9/16/2014 11:51:05 AM	R21235
Ethylbenzene	1.5	0.061		mg/Kg	2	9/16/2014 11:51:05 AM	R21235
Xylenes, Total	15	0.61		mg/Kg	10	9/16/2014 2:14:20 PM	R21235
Surr: 4-Bromofluorobenzene	195	80-120	S	%REC	2	9/16/2014 11:51:05 AM	R2123

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 5

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1409706

23-Sep-14

Client:

Animas Environmental Services

Project:	CoP Nava	ajo Alloted	Com #	[#] 1											
Sample ID	MB-15310	SampTy	pe: ME	BLK	TestCode: EPA Method 8015D: Diesel Range Organics										
Client ID:	PBS	Batch	ID: 15	310	F	RunNo: 2	1242								
Prep Date:	9/16/2014	Analysis Da	ate: 9/	16/2014	S	SeqNo: 6	19105	Units: mg/Kg							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
	Organics (DRO)	ND	10												
Surr: DNOP		9.2		10.00		92.2	57.9	140							
Sample ID	LCS-15310	SampTy	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics					
Client ID:	LCSS	Batch	ID: 15	310	F	RunNo: 2	1242								
Prep Date:	9/16/2014	Analysis Da	ate: 9/	16/2014	5	SeqNo: 6	19106	Units: mg/Kg							
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range (Organics (DRO)	52	10	50.00	0	104	68.6	130							
Surr: DNOP		4.3		5.000		86.6	57.9	140							
Sample ID	1409706-001AMS	SampTy	/pe: M \$	3	TestCode: EPA Method 8015D: Diesel Range Organics										
Client ID:	SC-7	Batch	ID: 15	310	F	RunNo: 2	1242								
Prep Date:	9/16/2014	Analysis Da	ate: 9/	16/2014	8	SeqNo: 6	19136	Units: mg/k	⟨ g						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Diesel Range (Organics (DRO)	92	10	49.95	49.59	85.7	40.1	152							
Surr: DNOP		5.6		4.995		112	57.9	140							
Sample ID	1409706-001AMS	SampTy	/pe: M \$	SD	Tes	tCode: EI	PA Method	8015D: Dies	el Range (Organics					
Client ID:	SC-7	Batch	ID: 15	310	RunNo: 21242										
Prep Date:	9/16/2014	Analysis Da	ate: 9/	16/2014	5	SeqNo: 6	19137	Units: mg/k	⟨g						
Analyte		Result	PQL	Total Many Many	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
15	Organics (DRO)	99	9.9	49.65	49.59	99.9	40.1	152	7.13	32.1					
Surr: DNOP		5.2		4.965		105	57.9	140	0	0					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- P Sample pH greater than 2.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1409706

23-Sep-14

Client:

Animas Environmental Services

Project:

CoP Navajo Alloted Com #1

Sample ID MB-15288 MK	SampType: MBLK			Test	е								
Client ID: PBS	Batcl	h ID: R2	1235	R	lunNo: 2	1235							
Prep Date:	Analysis D	Date: 9/	16/2014	S	SeqNo: 6	19069	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (GRO)	ND	5.0											
Surr: BFB	930		1000		92.5	80	120						
Sample ID LCS-15288 MK	Sample ID LCS-15288 MK SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range								
OF				Downless access									

Sample ID LCS-15288 MK	SampT	ype: LC	S	Test	tCode: E	PA Method	8015D: Gaso	line Range	9	
Client ID: LCSS	Batch	ID: R2	1235	R	RunNo: 2	1235				
Prep Date:	Analysis D	ate: 9/	16/2014	S	SeqNo: 6	19070	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	125	65.8	139			
Surr: BFB	1100		1000		107	80	120			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1409706

23-Sep-14

Client:

Animas Environmental Services

Project:

CoP Navajo Alloted Com #1

Sample ID MB-15288 MK	SampT	BLK	Tes	8021B: Vola	tiles					
Client ID: PBS	Batcl	Batch ID: R21235 RunNo: 21235								
Prep Date:	Analysis E)ate: 9/	16/2014	S	SeqNo: 6	19117	Units: mg/K	(g		
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	0.98		1.000		98.0	80	120			
Sample ID LCS-15288 MK	Samp7	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	n ID: R2	1235	F	RunNo: 2	1235				
Prep Date:	Analysis D	Date: 9/	16/2014	S	SeqNo: 6	19118	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1 0.050 1.000 0 106		80	120						
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Animas Environmental	Work Order Number:	1409706		RcptNo: 1	1
Received by/da	te: LM	09/16/14				
Logged By:	Anne Thorne	9/16/2014 7:00:00 AM		anne Am		
Completed By:	Anne Thorne	9/16/2014		anne Am		
Reviewed By:	A Company	09/14/14		Command of the comman		
Chain of Cus	stody					
1. Custody se	als intact on sample bottles	\$?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of	Custody complete?		Yes 🗸	No 🗌	Not Present	
3. How was th	e sample delivered?		Courier			
Log In						
	tempt made to cool the san	nples?	Yes 🗸	No ·	NA 🗆	
5. Were all sa	imples received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s)	in proper container(s)?		Yes 🗸	No 🗆		
7. Sufficient s	ample volume for indicated	test(s)?	Yes 🗸	No 🗌		
8. Are sample	es (except VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
9. Was prese	rvative added to bottles?		Yes	No 🗸	NA 🗆	
10. VOA vials	nave zero headspace?		Yes 🗌	No 🗌	No VOA Vials	
	sample containers received	I broken?	Yes	No 🗸		
					# of preserved bottles checked	
	rwork match bottle labels?	4.3	Yes 🗸	No 🗌	for pH:	>12 unless noted)
	epancies on chain of custo es correctly identified on Ch		Yes 🗸	No 🗆	Adjusted?	- 12 amoss notody
	hat analyses were request		Yes 🗹	No 🗆		
	olding times able to be met		Yes 🗸	No 🗆	Checked by:	
	y customer for authorization					
Cassial Ham	dling (if applicable)					
	dling (if applicable)		V []	No 🗆	NA 🗸	
76, vvas client	notified of all discrepancies	s with this order?	Yes 📙	NO L	IVA 🖭	
	on Notified:	Date		Service and College Service and Service Servic		
	/hom:	Via:	eMail	Phone Fax	In Person	
	arding:	TO STANDARD TO SHAPE IN THE STANDARD ST	THE THE ESTATE OF THE PROPERTY OF THE PARTY	Commence of the Samuel State Commence of the	a at the control of the second of the debtack of the debtack of the control of th	
	t Instructions:	CONTRACTOR AND ADMINISTRATION OF THE PARTY O	er autorialisation of technic	000 1	Activities and the control of the co	
17. Additional	remarks:	Es Sample	ID IS	00-1/	A 09/18/14	
18. Cooler In	and a containing a speciment of the containing and a cont	overpresser v 4.7 . April 4.5.6 Applement	E5. (2021) (1011) F	STATES OF BUILDING STATES OF THE		
Cooler 1	No Temp °C Conditio	n Seal Intact Seal No Yes	Seal Date	Signed By		
L'	1			-		

Chain-of-Custody Record			Turn-Around	. HALL ENVIRONMENTAL																	
Client: Animas Environmental Services, LC Mailing Address: 604 Pinon				☐ Standard	Rush	Same - Day	ANALYSIS LABORATORY www.hallenvironmental.com														
				Project #:				4901 Hawkins NE - Albuquerque, NM 87109													
Farmington, NM 87401 Phone #: 505-564-2281			Tel. 505-545-5975 Fax 505-545-4107																		
											A	naly	ysis	Req	ues	t					
email or Fax#:			Project Mana	ager:		=	nly)	\$	12				04)	(0)							
QA/QC Package: Standard Level 4 (Full Validation)			E.	Skyles		- TMB's (8021)	TPH (Gas only)	30/4	e)		SIMS)		,PO ₄ ,S	2 PCB's							
Accreditation □ NELAP □ Other			Sampler: & On Ice:	5. Sky Le	D No.	A TAMB	+ TPH	ROLD	(18.1)	504.1)		"	O3,NO2	s / 808		(A)				or N)	
□ EDD (Type)			Sample Tem	perature: 4	The state of the s	出出	BE	30	od 4	od 5	0 0	etals	ž	cide	(A	-VC				2	
Date	Time	Matrix	Sample Request ID	Type and #	Preservative Type	1409706	BTEX +-WITBE+	BTEX + MTBE	TPH 8015B/GRO/DRO/WRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
9/13/14	10:20	Soil	SC-7	1-402 MeOH	We DH COOL HOLD	105	X		X												
9/15/14	10:29	Soil	SC-6	1-402 MeOH	tteoy	-02	^		^				v							-	
					1		-											-	+	+	+
Date: Date:	Time: 1735	Relinquishe Relinquishe	the Walter	Received by:	u haet	Date Time 9 15 1 1735 Date Time 09 14 14 0900		nark													
H	necessary	samples subr	mitted to Hall Environmental may be subo	contracted to other a	ccredited laboratorio	es. This serves as notice of this	s possi	bility.	Any si	ub-con	tracte	d data	will be	e clear	ly nota	ated or	n the ai	nalytica!	report.		