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.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **Burlington Resources Oil & Gas Company**	Contact **Crystal Tafoya**
Address 3401 East 30th St, Farmington, NM	Telephone No.(505) 326-9837
Facility Name: **Allison Unit Com 144S**	Facility Type: **Gas Well**

Surface Owner **Fee**	Mineral Owner **Fee**	API No.**30-045-31877**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	**31**	**32N**	**6W**	**940**	**North**	**930**	**West**	**San Juan**

Latitude 36.94117 Longitude 107.50606

NATURE OF RELEASE

Type of Release **Produced Fluids**	Volume of Release **None**	Volume Recovered **None**
Source of Release **Below Grade Tank**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **September 21, 2012**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RCVD JAN 31 '13
OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*
Below Grade Tank Closure Activities

Describe Area Affected and Cleanup Action Taken.*
The regulatory standard for closure at this site was determined to be 1000 ppm. A soil sample was taken and then transported to the lab and analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Crystal L. Tafoya

Printed Name: **Crystal Tafoya**

Title: **Field Environmental Specialist**

E-mail Address: crystal.tafoya@conocophillips.com

Date: 1/31/2013 Phone: (505) 326-9837

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Jonathan D. Kelly

Approval Date: 2/11/2013 Expiration Date:

Conditions of Approval: C-144 Closure
Permit needed for BGT Closure

Attached ☐

* Attach Additional Sheets If Necessary

nJK 1304233106

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

January 25, 2013

Crystal Tafoya
ConocoPhillips
San Juan Business Unit
Office 214-5
5525 Hwy 64
Farmington, New Mexico 87401

RE: Below Grade Tank Closure Report
Allison Com #144S
San Juan County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) Allison Com #144S, located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Allison Com #144S
Legal Description - NW¼ NW¼, Section 31, T32N, R6W, San Juan County, New Mexico
Well Latitude/Longitude – N36.94117 and W107.50606, respectively
BGT Latitude/Longitude - N36.94118 and W107.50640, respectively
Land Jurisdiction – New Mexico State Department of Game and Fish
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, September 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 form dated February 2005 for the Allison Com #144S well reported the depth to groundwater as greater than 100 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool

(http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs. Unnamed ephemeral drainages are located approximately 250 feet north and 825 feet southeast of the location. Based on this information, the location was assessed a ranking score of 10.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on September 21, 2012, and on September 24, 2012, Deborah Watson and Corwin Lameman of AES arrived at the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

2.0 Soil Sampling

On September 24, 2012, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for VOCs and chloride and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a 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

Soil samples were also analyzed in the field for TPH per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

2.1.3 Chlorides

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

2.2 Laboratory Analyses

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

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- Total petroleum hydrocarbons (TPH) for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B;
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 0.0 ppm in S-1 up to 1.9 ppm in S-3. Field TPH concentrations ranged from 270 mg/kg in S-3 up to 3,180 mg/kg in S-1. The field chloride concentration in SC-1 was 40 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
Allison Com #144S BGT Closure, September 2012

Sample ID	*Date Sampled*	*Depth below BGT (ft)*	*VOCs OVM Reading (ppm)*	*Field TPH (mg/kg)*	*Field Chlorides (mg/kg)*
NMOCD Action Level (NMAC 19.15.17.13E)			*--*	***100***	***250***
S-1	9/24/12	0.5	0.0	**3,180**	NA
S-2	9/24/12	0.5	1.7	**1,220**	NA
S-3	9/24/12	0.5	1.9	**270**	NA
S-4	9/24/12	0.5	0.8	**588**	NA
S-5	9/24/12	0.5	1.1	**1,060**	NA
SC-1	9/24/12	0.5	0.9	NA	40

NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. TPH concentrations were reported at less than 5.0 mg/kg GRO and 15 mg/kg DRO. The laboratory chloride concentration was below the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
Allison Com #144S BGT Closure, September 2012

Sample ID	*Date Sampled*	*Depth (ft)*	*Benzene (mg/kg)*	*BTEX (mg/kg)*	*TPH-GRO (mg/kg)*	*TPH-DRO (mg/kg)*	*Chlorides (mg/kg)*
NMOCD Action Level (NMAC 19.15.17.13E)			***0.2***	***50***	***100***		***250***
SC-1	9/24/12	0.5	<0.050	<0.25	<5.0	15	<30

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Field TPH concentrations exceeded the NMOCD action level of 100 mg/kg in all samples, with the highest concentration reported in S-1 (3,180 mg/kg). However, TPH concentrations as GRO/DRO were reported below the NMOCD threshold of 100 mg/kg in SC-1 with 15 mg/kg. The chloride concentration for SC-1 was below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, BTEX, TPH, and chlorides, no further work is recommended.

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

Sincerely,

Landrea R. Cupps

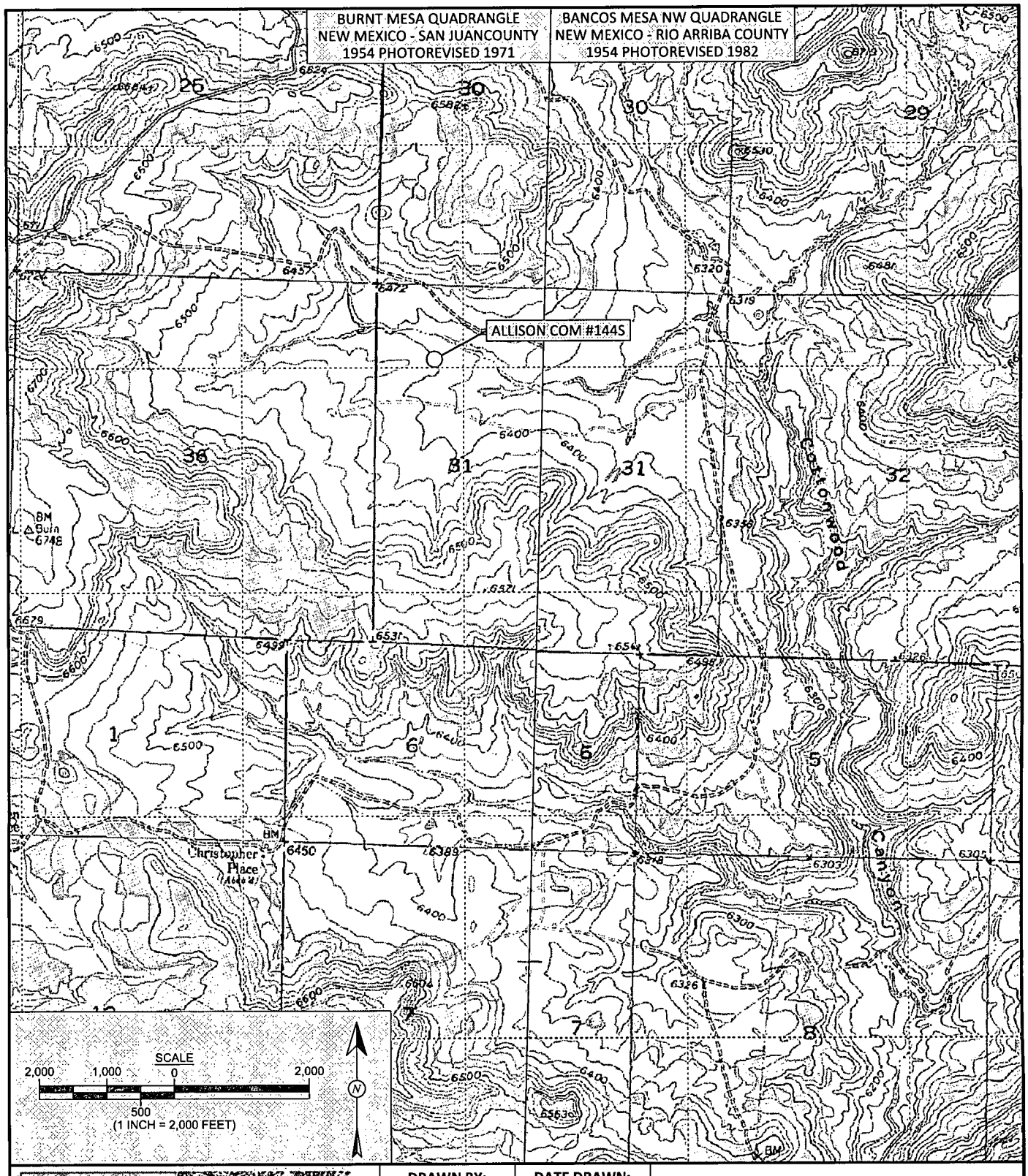
Landrea Cupps
Environmental Scientist

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, September 2012
AES Field Screening Report 092412
Hall Analytical Report 1209A84

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Allison Com #144S\Allison Com #144 S BGT Closure Report 012513.docx

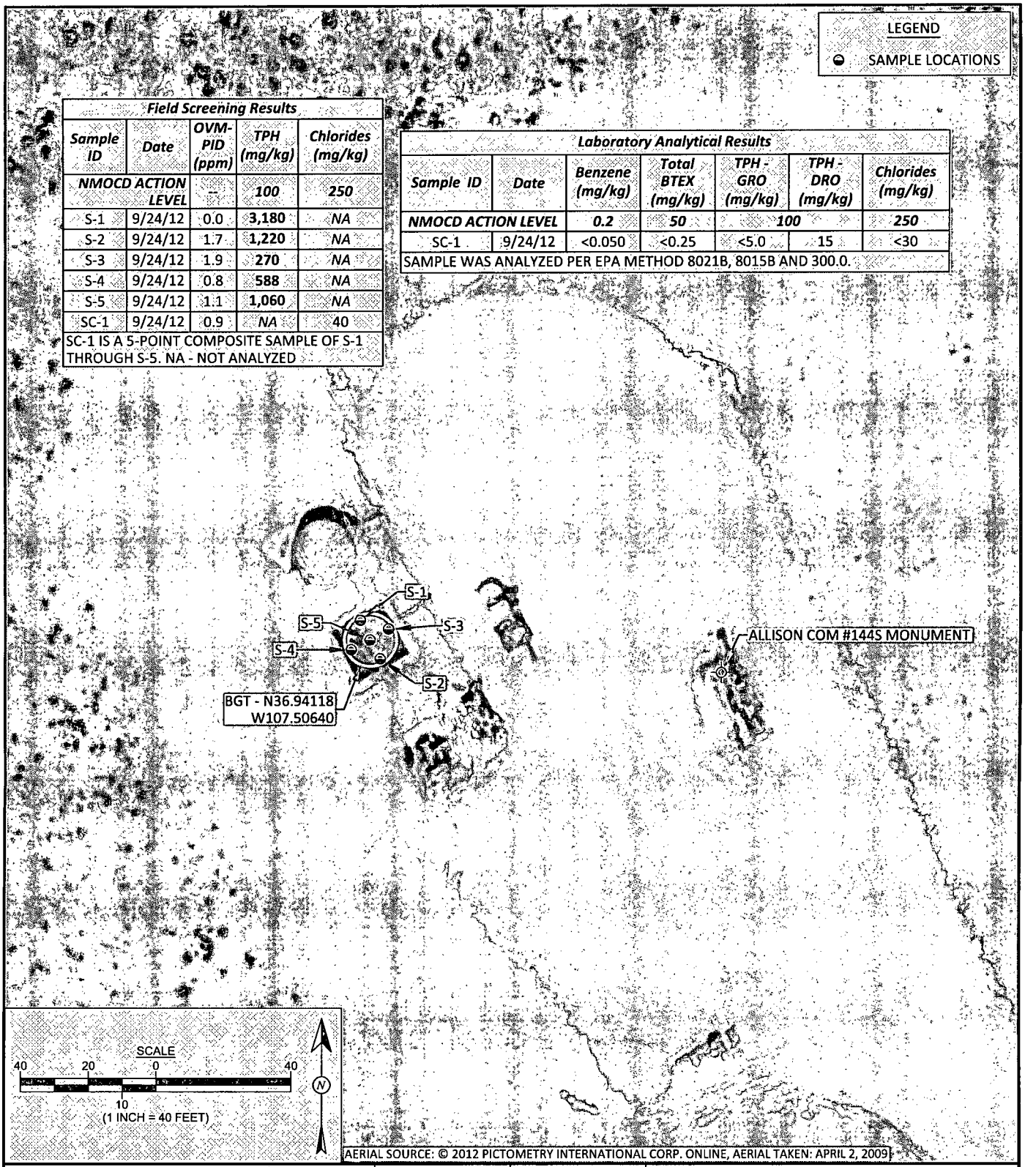


DRAWN BY: C. Lameman	**DATE DRAWN:** September 25, 2012
REVISIONS BY: C. Lameman	**DATE REVISED:** September 25, 2012
CHECKED BY: D. Watson	**DATE CHECKED:** September 25, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** September 25, 2012

Animas Environmental Services, LLC

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
ALLISON COM #144S
SAN JUAN COUNTY, NEW MEXICO
NW¼ NW¼, SECTION 31, T32N, R6W
N36.94117, W107.50606



Field Screening Results

Sample ID	Date	OVM-PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		--	100	250
S-1	9/24/12	0.0	3,180	NA
S-2	9/24/12	1.7	1,220	NA
S-3	9/24/12	1.9	270	NA
S-4	9/24/12	0.8	588	NA
S-5	9/24/12	1.1	1,060	NA
SC-1	9/24/12	0.9	NA	40

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

Laboratory Analytical Results

Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		0.2	50	100		250
SC-1	9/24/12	<0.050	<0.25	<5.0	15	<30

SAMPLE WAS ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0.

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: September 25, 2012
REVISIONS BY: C. Lameman	DATE REVISED: September 25, 2012
CHECKED BY: D. Watson	DATE CHECKED: September 25, 2012
APPROVED BY: E. McNally	DATE APPROVED: September 25, 2012

FIGURE 2

AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
SEPTEMBER 2012
ConocoPhillips
ALLISON COM #144S
SAN JUAN COUNTY, NEW MEXICO
NW¼ NW¼, SECTION 31, T32N, R6W
N36.94117, W107.50606

AES Field Screening Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3274

Client: ConocoPhillips

Project Location: Allison Com #144S

Date: 9/24/2012

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	9/24/2012	9:40	North	0.0	NA	10:30	3,180	200	10	DAW
S-2	9/24/2012	9:45	South	1.7	NA	10:50	1,220	20.0	1	DAW
S-3	9/24/2012	9:50	East	1.9	NA	10:53	270	20.0	1	DAW
S-4	9/24/2012	9:55	West	0.8	NA	10:57	588	20.0	1	DAW
S-5	9/24/2012	10:00	Center	1.1	NA	11:00	1,060	20.0	1	DAW
SC-1	9/24/2012	10:05	Composite	0.9	40	*Not Analyzed for Field TPH*				

PQL Practical Quantitation Limit

ND Not Detected at the Reporting Limit

DF Dilution Factor

NA Not Analyzed

**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: Deborah Watson

Report Finalized:092412

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 01, 2012

Debbie Watson

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

RE: COP Allison Com #144S OrderNo.: 1209A84

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/25/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1209A84**
Date Reported: **10/1/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: SC-1
Project: COP Allison Com #144S
Collection Date: 9/24/2012 10:05:00 AM
Lab ID: 1209A84-001
Matrix: MEOH (SOIL)
Received Date: 9/25/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	15	9.7		mg/Kg	1	9/25/2012 12:01:38 PM
Surr: DNOP	115	77.6-140		%REC	1	9/25/2012 12:01:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/25/2012 12:48:37 PM
Surr: BFB	99.1	84-116		%REC	1	9/25/2012 12:48:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	9/25/2012 12:48:37 PM
Toluene	ND	0.050		mg/Kg	1	9/25/2012 12:48:37 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/25/2012 12:48:37 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/25/2012 12:48:37 PM
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	9/25/2012 12:48:37 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	ND	30		mg/Kg	20	9/25/2012 12:27:43 PM

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209A84**

01-Oct-12

Client: Animas Environmental Services

Project: COP Allison Com #144S

Sample ID	**1209A85-001BMS**	SampType: **MS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID: **3913**			RunNo: **5775**					
Prep Date:	**9/25/2012**	Analysis Date: **9/25/2012**			SeqNo: **165984**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	30	15.00	19.09	67.6	64.4	117			

Sample ID	**1209A85-001BMSD**	SampType: **MSD**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID: **3913**			RunNo: **5775**					
Prep Date:	**9/25/2012**	Analysis Date: **9/25/2012**			SeqNo: **165985**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	30	15.00	19.09	37.2	64.4	117	0	20	S

Sample ID	**1209615-050AMS**	SampType: **MS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID: **3913**			RunNo: **5775**					
Prep Date:	**9/25/2012**	Analysis Date: **9/25/2012**			SeqNo: **165987**		Units: **mg/Kg-dry**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	79	9.2	18.36	67.90	60.6	64.4	117			S

Sample ID	**1209615-050AMSD**	SampType: **MSD**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**BatchQC**	Batch ID: **3913**			RunNo: **5775**					
Prep Date:	**9/25/2012**	Analysis Date: **9/25/2012**			SeqNo: **165988**		Units: **mg/Kg-dry**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	81	9.2	18.36	67.90	71.7	64.4	117	2.54	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209A84**

01-Oct-12

Client: Animas Environmental Services

Project: COP Allison Com #144S

Sample ID	**MB-3915**	SampType:	**MBLK**			TestCode:	**EPA Method 8015B: Diesel Range Organics**			
Client ID:	**PBS**	Batch ID:	**3915**			RunNo:	**5734**			
Prep Date:	**9/25/2012**	Analysis Date:	**9/25/2012**			SeqNo:	**165234**	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	13		10.00		126	77.6	140			

Sample ID	**LCS-3915**	SampType:	**LCS**			TestCode:	**EPA Method 8015B: Diesel Range Organics**			
Client ID:	**LCSS**	Batch ID:	**3915**			RunNo:	**5734**			
Prep Date:	**9/25/2012**	Analysis Date:	**9/25/2012**			SeqNo:	**165235**	Units:	**mg/Kg**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.4	52.6	130			
Surr: DNOP	5.5		5.000		110	77.6	140			

Sample ID	**MB-3974**	SampType:	**MBLK**			TestCode:	**EPA Method 8015B: Diesel Range Organics**			
Client ID:	**PBS**	Batch ID:	**3974**			RunNo:	**5816**			
Prep Date:	**9/27/2012**	Analysis Date:	**9/28/2012**			SeqNo:	**167266**	Units:	**%REC**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	77.6	140			

Sample ID	**LCS-3974**	SampType:	**LCS**			TestCode:	**EPA Method 8015B: Diesel Range Organics**			
Client ID:	**LCSS**	Batch ID:	**3974**			RunNo:	**5816**			
Prep Date:	**9/27/2012**	Analysis Date:	**9/28/2012**			SeqNo:	**167486**	Units:	**%REC**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.1	77.6	140			

Sample ID	**1209B93-001AMS**	SampType:	**MS**			TestCode:	**EPA Method 8015B: Diesel Range Organics**			
Client ID:	**BatchQC**	Batch ID:	**3974**			RunNo:	**5816**			
Prep Date:	**9/27/2012**	Analysis Date:	**9/28/2012**			SeqNo:	**167922**	Units:	**%REC**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		4.916		98.6	77.6	140			

Sample ID	**1209B93-001AMSD**	SampType:	**MSD**			TestCode:	**EPA Method 8015B: Diesel Range Organics**			
Client ID:	**BatchQC**	Batch ID:	**3974**			RunNo:	**5816**			
Prep Date:	**9/27/2012**	Analysis Date:	**9/28/2012**			SeqNo:	**168423**	Units:	**%REC**	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		4.822		101	77.6	140	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209A84**

01-Oct-12

Client: *Animas Environmental Services*

Project: COP Allison Com #144S

Sample ID **MB-3926**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **PBW**	Batch ID: **3926**	RunNo: **5768**
Prep Date: **9/26/2012**	Analysis Date: **9/26/2012**	SeqNo: **166167** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1.2		1.000		124	79.5	166			

Sample ID **LCS-3926**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSW**	Batch ID: **3926**	RunNo: **5768**
Prep Date: **9/26/2012**	Analysis Date: **9/26/2012**	SeqNo: **166173** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.56		0.5000		113	79.5	166			

Sample ID **LCSD-3926**	SampType: **LCSD**	TestCode: **EPA Method 8015B: Diesel Range**
Client ID: **LCSS02**	Batch ID: **3926**	RunNo: **5768**
Prep Date: **9/26/2012**	Analysis Date: **9/26/2012**	SeqNo: **166174** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.54		0.5000		108	79.5	166	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209A84**

01-Oct-12

Client: Animas Environmental Services

Project: COP Allison Com #144S

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165877** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.3	84	116			

Sample ID **2.5UG GRO LCSB**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165878** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	74	117			
Surr: BFB	1000		1000		105	84	116			

Sample ID **1209A84-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **SC-1**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165880** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	14	5.0	16.97	0	84.0	70	130			
Surr: BFB	710		678.9		105	84	116			

Sample ID **1209A84-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **SC-1**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165881** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	5.0	16.97	0	103	70	130	19.8	22.1	
Surr: BFB	730		678.9		108	84	116	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1209A84**

01-Oct-12

Client: Animas Environmental Services

Project: COP Allison Com #144S

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165902** Units: **mg/Kg**

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		98.2	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165903** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	76.3	117			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	77	116			
Xylenes, Total	3.1	0.10	3.000	0	103	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID **1209A82-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165905** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.29	0.050	0.7159	0	40.9	67.2	113			S
Toluene	0.30	0.050	0.7159	0	42.4	62.1	116			S
Ethylbenzene	0.31	0.050	0.7159	0	43.3	67.9	127			S
Xylenes, Total	0.93	0.10	2.148	0	43.3	60.6	134			S
Surr: 4-Bromofluorobenzene	0.72		0.7159		101	80	120			

Sample ID **1209A82-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **R5753**	RunNo: **5753**
Prep Date:	Analysis Date: **9/25/2012**	SeqNo: **165906** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.050	0.7159	0	97.5	67.2	113	81.7	14.3	R
Toluene	0.71	0.050	0.7159	0	99.1	62.1	116	80.1	15.9	R
Ethylbenzene	0.71	0.050	0.7159	0	99.5	67.9	127	78.7	14.4	R
Xylenes, Total	2.1	0.10	2.148	0	99.9	60.6	134	79.0	12.6	R
Surr: 4-Bromofluorobenzene	0.75		0.7159		105	80	120	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1209A84

Received by/date: MG 09/25/12

Logged By: Ashley Gallegos 9/25/2012 10:00:00 AM

Completed By: Ashley Gallegos 9/25/2012 10:23:10 AM

Reviewed By:

Chain of Custody

1. Were seals Intact? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific Information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) In proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			

Chain-of-Custody Record

Client: Animas Environmental Services LLC

Mailing Address: 624 E Comanche Farmington NM 87401

Phone #: 505 564 2281

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☒ Rush Same day

Project Name: CoP Allison Com #144S

Project #:

Project Manager: D. Watson

Sampler: D Watson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1209482	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel) GRO/DRO	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 chlorides				Air Bubbles (Y or N)
9-24-12	1005	Soil	SC-1	MeOH kit 4oz	MeOH	-001	X		X									X				

Analysis Request

Date: 9/24/12 Time: 1653 Relinquished by: Debra Watson Received by: Christine Walker Date: 9/24/12 Time: 1653

Date: 9/24/12 Time: 1724 Relinquished by: Christine Walker Received by: [signature] Date: 09/25/12 Time: 10:00

Remarks: Bill to ConocoPhillips
wo: 10339722 Supervisor: Harry Dee
act code: C200 UserID: KAITLW
Area: 6 ordered by: Bruce Yazzie

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