

**3R-1022**

**Release Report/ General  
Correspondence**

**Beeline Gas Systems  
Martin Whitaker #58  
Lateral**

**Date: April 2015**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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 CONS. DIV DIST. 3

Form C-141  
Revised August 8, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

APR 27 2015

Submit a copy to appropriate District Office in accordance with 19.15.29 NMAC.

UPDATED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Elm Ridge Exploration Co. LLC d.b.a. Beeline Gas Systems	Contact: Primary-Dianna Lee 330-2736 Secondary- Alan Lain 486-0260
Address: 2001 E. Blanco Blvd. Bloomfield, NM 87413	Telephone No. 634-1144
Facility Name: Martin Whitaker #58	Facility Type: pipeline right of way

Surface Owner: Jicarilla	Mineral Owner: Jicarilla	API No.
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LOCATION OF RELEASE

Unit Letter	Section 9	Township 23N	Range 5W	Feet from the	North/South Line	Feet from the	East/West Line	County
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Latitude 36.27215 Longitude 107.62986

NATURE OF RELEASE

Type of Release: Water and Oil mixture	Volume of Release: 262 cubic yds	Volume Recovered: 0
Source of Release: Pipeline Leak	Date and Hour of Occurrence 8/18/14	Date and hour of discovery 8/18/14
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Cory Smith	
By Whom? Dianna Lee	Date and Hour 8/18/14 4:01 pm	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Leak is in wash, cause of leak was corrosion of pipeline. Oil and water mixture did seep to top of wash and was noticeably stained.

Describe Cause of Problem and Remedial Action Taken.\*

Corrosion was the cause of the release. Halo crew with back hoe exposed pipe to find the source and location of corrosion. Excavator was then brought in to removed contaminated soil. We took out the whole pipe as it was corroded along the entire length of the pipeline and was replaced. Soil samples were taken from the walls and base of the excavation as well as a ground water sample. Please see attached lab results.

Describe Area Affected and Cleanup Action Taken.\*

See attached diagram in final report from Animas. Excavation and clean up conducted. Soil samples were taken, repairs to pipeline were completed as well. Field results and lab results varied as shown in lab results, permission from NMOCD's Cory Smith was received for backfill as well as confirmation from Jicarilla Tribe to backfill. Contaminated soil was taken to Envirotech.

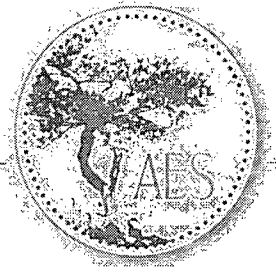
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <i>Dianna Lee</i>	OIL CONSERVATION DIVISION	
Printed Name: Dianna Lee	Approved by Environmental Specialist: <i>Cory Smith</i>	
Title: Regulatory Administrator	Approval Date: <u>4/30/15</u>	Expiration Date:
E-mail Address: BeelineRegulatory@elmridge.net	Conditions of Approval:	Attached <input type="checkbox"/>
Date: April 22, 2015 Phone: 505-330-2736	<i>Ground water Remediation</i>	

#NCS 1512031303

Req 3RP-1022

42



April 15, 2015

Dianna Lee  
Beeline Gas Systems  
2001 E. Blanco Blvd  
Bloomfield, New Mexico 87413

*Via electronic mail with delivery confirmation receipt to:*  
[BeelineRegulatory@elmridge.net](mailto:BeelineRegulatory@elmridge.net)

**RE: Release Assessment Report  
AXI H-12 Well Tie Pipeline Release  
NW¼ NW¼, Section 9, T23N, R5W  
Rio Arriba County, New Mexico**

Dear Ms. Lee:

On December 3, 9, and 11, 2014, Animas Environmental Services, LLC (AES) completed an environmental assessment associated with a pipeline release at the Beeline Gas Systems (Beeline) Martin Whitaker #58. The release was discovered on August 18, 2014, and resulted from pipeline corrosion. The release occurred within Largo Canyon wash, and sustained heavy precipitation events prevented immediate remediation activities.

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## 1.0 Site Information

### 1.1 Location

Location – NW¼ NW¼, Section 9, T23N, R5W, Rio Arriba County, New Mexico

Latitude/Longitude – N36.24509 and W107.37516, respectively

Surface Owner – Jicarilla Apache Nation

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

### 1.2 Risk Ranking

#### 1.2.1 JANOGA Action Levels

The Beeline Martin Whitaker Pipeline release is located on Jicarilla Apache Nation lands, and soil remediation action levels are determined by the Jicarilla Apache Nation Oil and Gas Administration

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

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

(JANOGA). JANOGA action levels for soils currently follow the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993). Per JANOGA, all locations within Jicarilla Apache Nation lands receive a ranking score of 20:

- 100 parts per million (ppm) volatile organic compounds (VOCs), or 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX); and
- 100 mg/kg total petroleum hydrocarbons (TPH).

JANOGA water quality standards currently follow New Mexico Water Quality Control Commission (WQCC) standards.

### **1.2.2 Surface and Groundwater**

The Martin Whitaker #58 release location occurred within the main channel of the Canyon Largo Wash. Depth to water is approximately 5 feet below ground surface (bgs), as determined by AES and Beeline personnel upon recharge of water within the excavation extent. Note also that in December 2014, AES conducted an unrelated assessment approximately 330 feet to the west, and depth to water was confirmed at approximately 7 feet bgs during installation of a temporary hydropunch point within the Canyon Largo Wash floodplain.

### **1.3 Assessment and Mitigation**

Prior to December 3, 2014, Beeline contractors began an excavation along the pipeline and determined that the pipeline release was the result of corrosion. On December 3 and 9, 2014, AES collected a total of six confirmation soil samples for field screening and laboratory analysis from the walls of the final excavation. At the request of the NMOCD, one 5-point composite confirmation soil sample was also collected along the length of pipeline to be replaced. Note that heavy precipitation necessitated the removal of excess rain water via hydro-vacuum trucks from the excavation. Prior to backfilling the excavation, one grab sample was collected from the recharged groundwater on December 11, 2014, under the supervision of NMOCD. The final excavation measured approximately 56 feet by 42 feet by 5 feet deep. The excavation was backfilled with clean, imported material. Petroleum impacted soil was transported to the Envirotech Landfarm for proper disposal. Soil and groundwater sample locations and final excavation extents are included on Figure 3.

## 2.0 Soil Sampling

On December 3, 2014, three soil samples (SC-1, SC-3, and SC-4) were collected from the west, northwest and southwest walls of the excavation and submitted for laboratory analysis. Additional hydrocarbon impacted soil was removed from the remaining walls of the excavation. On December 9, 2014, AES collected four soil samples (SC-2, SC-5 through SC-7) from the east, southeast and north walls, and along the exposed pipeline right of way (approximately 200 feet in length). All soil samples were field screened for VOCs and were also analyzed for TPH. All samples were submitted for laboratory analysis.

### 2.1 Field Screening

#### 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 ppm isobutylene gas.

#### 2.1.2 Total Petroleum Hydrocarbons

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

### 2.2 Laboratory Analyses

The 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. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. All samples were laboratory analyzed for:

- BTEX per USEPA Method 8021B; and
- TPH as gasoline range organics (GRO) and diesel range organics (DRO) per USEPA method 8015D.

### 2.3 Field Screening and Laboratory Analytical Results

Soil field screening results showed that VOC concentrations via OVM ranged from 2.0 ppm in SC-6 to 4,522 ppm in SC-4. TPH concentrations ranged from 22.5 mg/kg in SC-6 to 83.1 mg/kg in SC-2. Field screening results are summarized in Table 1 and presented on Figure 3. The AES Field Sampling Report is attached.

Table 1. Soil Field Screening VOC and TPH Results  
Martin Whitaker #58 Pipeline Release Assessment, December 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<b>JANOGA Action Level*</b>			<b>100</b>	<b>100</b>
SC-1	12/3/14	3 to 5	8.4	32.8
SC-2	12/9/14	1 to 5	26.9	23.9
SC-3	12/3/14	1 to 5	612	68.0
SC-4	12/3/14	1 to 5	4,522	83.1
SC-5	12/9/14	1 to 4	27.3	25.2
SC-6	12/9/14	1 to 5	2.0	22.5
SC-7	12/9/14	5	49.5	29.0

\*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)).

Laboratory analytical results for the soil samples showed benzene concentrations ranging from below the laboratory detection limits in several samples up to 0.44 mg/kg in SC-3. Total BTEX concentrations ranged from below laboratory detection limits in several samples up to 8.48 mg/kg in SC-3. TPH concentrations as GRO/DRO ranged from below the laboratory detection limits in most samples up to 74 mg/kg in SC-3. Laboratory analytical results are included in Table 2 and on Figure 3. The laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, and TPH  
Martin Whitaker #58 Pipeline Release Assessment, December 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth (ft)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>TPH – GRO (mg/kg)</i>	<i>TPH – DRO (mg/kg)</i>
<b>JANOGA Action Level*</b>			<b>10</b>	<b>50</b>	<b>100</b>	
SC-1	12/3/14	3 to 5	<0.047	<0.235	<4.7	<10
SC-2	12/9/14	1 to 5	<0.048	<0.241	<4.8	<9.8
SC-3	12/3/14	1 to 5	0.44	8.48	74	<9.9
SC-4	12/3/14	1 to 5	<0.081	2.88	59	<10
SC-5	12/9/14	1 to 4	<0.049	<0.245	<4.9	<10
SC-6	12/9/14	1 to 4	<0.047	<0.235	<4.7	<9.9
SC-7	12/9/14	5	<0.049	<0.246	<4.9	<10

\*Action level determined by JANOGA (Ref. NMOCD ranking score of 20 per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)).

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### 3.0 Groundwater Sampling

On December 11, 2014, AES used an extendable pole with a new disposable bottle to collect one grab sample (GW-1) from the accumulated recharged water downgradient of the pipeline. Per NMOCD request, sample GW-1 was submitted to Hall for laboratory analyses of:

- BTEX per USEPA Method 8021B; and
- TPH (GRO/DRO) per USEPA method 8015D.

#### 3.1 Laboratory Analytical Results

Laboratory analytical results for the water sample (GW-1) reported dissolved phase concentrations of 340 µg/L benzene, 360 µg/L toluene, 130 µg/L ethylbenzene, and 790 µg/L xylenes. Dissolved phase TPH concentrations as GRO/DRO were reported at 4.9 mg/L. Laboratory analytical results are included in Table 3 and on Figure 3.

Table 3. Water Laboratory Analytical Results – Benzene, Total BTEX, and TPH  
Martin Whitaker #58 Pipeline Release Assessment, December 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethyl-Benzene (µg/L)</i>	<i>Xylenes (µg/L)</i>	<i>TPH – GRO (mg/L)</i>	<i>TPH – DRO (mg/L)</i>
<b>WQCC Standards</b>		<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>	<b>NE</b>	
GW-1	12/11/14	340	360	130	790	4.9	<1.0

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### 4.0 Conclusions and Recommendations

On December 3, 9, and 11, 2014, AES completed an assessment at the Beeline Martin Whitaker #58 Pipeline release location. Action levels for releases are determined by JANOGA and currently reflect a site ranking of 20 per NMOCD *Guideline for Remediation of Leaks, Spills and Releases* (August 1993).

On December 3, 2014, an initial assessment of the excavation area was completed. Soil laboratory analyses for SC-1, SC-3, and SC-4 showed benzene and total BTEX concentrations below the JANOGA action levels of 10 mg/kg and 50 mg/kg, respectively, with the highest concentrations in SC-3 with 0.44 mg/kg benzene and 8.48 mg/kg total BTEX. TPH (GRO/DRO) concentrations were below the JANOGA action level of 100 mg/kg in all samples, with the highest concentration in SC-3 at 74 mg/kg.

Prior to December 9, 2014, additional petroleum hydrocarbon impacted soil was excavated from the north, east and southeast walls, based upon previous field results. After the excavation work, soil samples SC-2, SC-5 and SC-6 were collected by AES and showed field screening results and TPH concentrations below JANOGA action levels. Also on December 9, 2014, field screening of composite soil sample SC-7 (from beneath the soon-to-be-replaced exposed section of the Martin Whitaker pipeline) showed VOC and TPH concentrations below JANOGA action levels. Laboratory analytical results for SC-2, SC-5, SC-6, and SC-7 showed that benzene, total BTEX, and TPH (GRO/DRO) concentrations were reported below the applicable JANOGA action levels.

On December 11, 2014, a grab water sample (GW-1) was collected from the base of the excavation in the downgradient direction immediately north of the release location. Laboratory analytical results showed dissolved phase toluene and ethylbenzene below the applicable New Mexico WQCC standards; however, dissolved phase benzene and xylenes concentrations exceeded the WQCC standards of 10 µg/L for benzene (340 µg/L), and 620 µg/L for xylenes (790 µg/L). Note however that grab samples collected from excavation may not accurately reflect dissolved phase concentrations present in shallow groundwater. Depth to water was estimated at approximately 5 feet below ground surface.

Based on the final field screening and laboratory analytical results of the excavation of petroleum hydrocarbon impacted soils at the Martin Whitaker #58 Pipeline release location, benzene, total BTEX, and TPH concentrations were below applicable JANOGA (NMOCD) action levels. However, laboratory analytical results from the excavation water sample indicate that groundwater may be potentially impacted above the WQCC standards for benzene (10 µg/L) and xylenes (620 µg/L). Installation and sampling of temporary hydropunch points in the vicinity of the release area is recommended in approximately six months to evaluate the natural attenuation of residual dissolved phase contaminants.

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

Sincerely,



Emilee Skyles  
Geologist

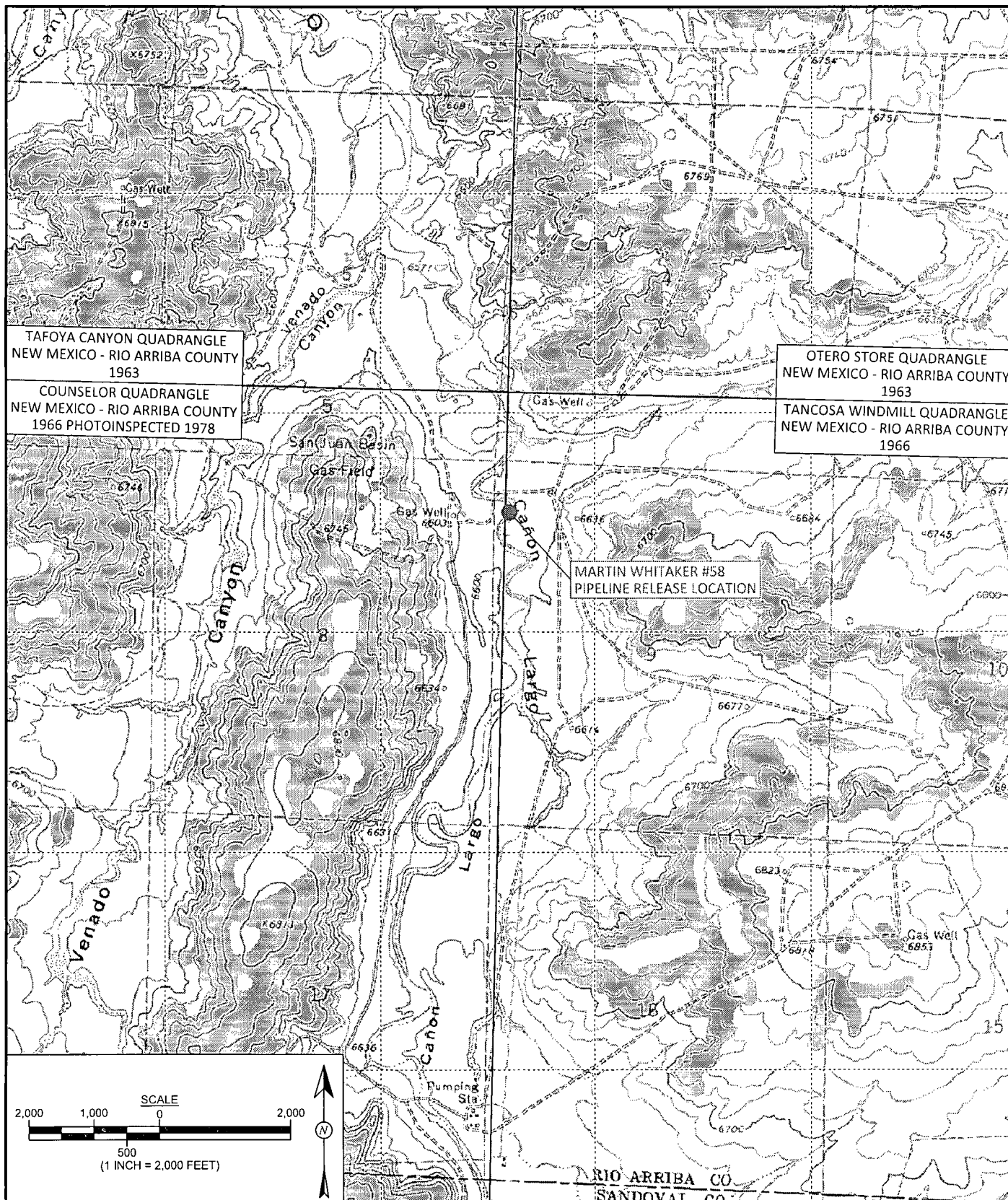


Elizabeth McNally, P.E.

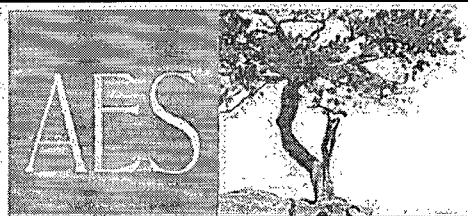
Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Final Excavation Sample Locations and Results, December 2014
- Photograph Log
- AES Field Sampling Report 120314
- AES Field Sampling Report 120914
- Laboratory Analytical Reports (1412465, 1412469 and 1412598)

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Projects\Beeline\Martin Whitaker #58\Beeline Martin Whitaker #58 Pipeline Release Report 041515.docx



**FIGURE 1**



Animas Environmental Services, LLC

**DRAWN BY:**  
C. Lameman

**DATE DRAWN:**  
December 22, 2014

**REVISIONS BY:**  
C. Lameman

**DATE REVISED:**  
December 22, 2014

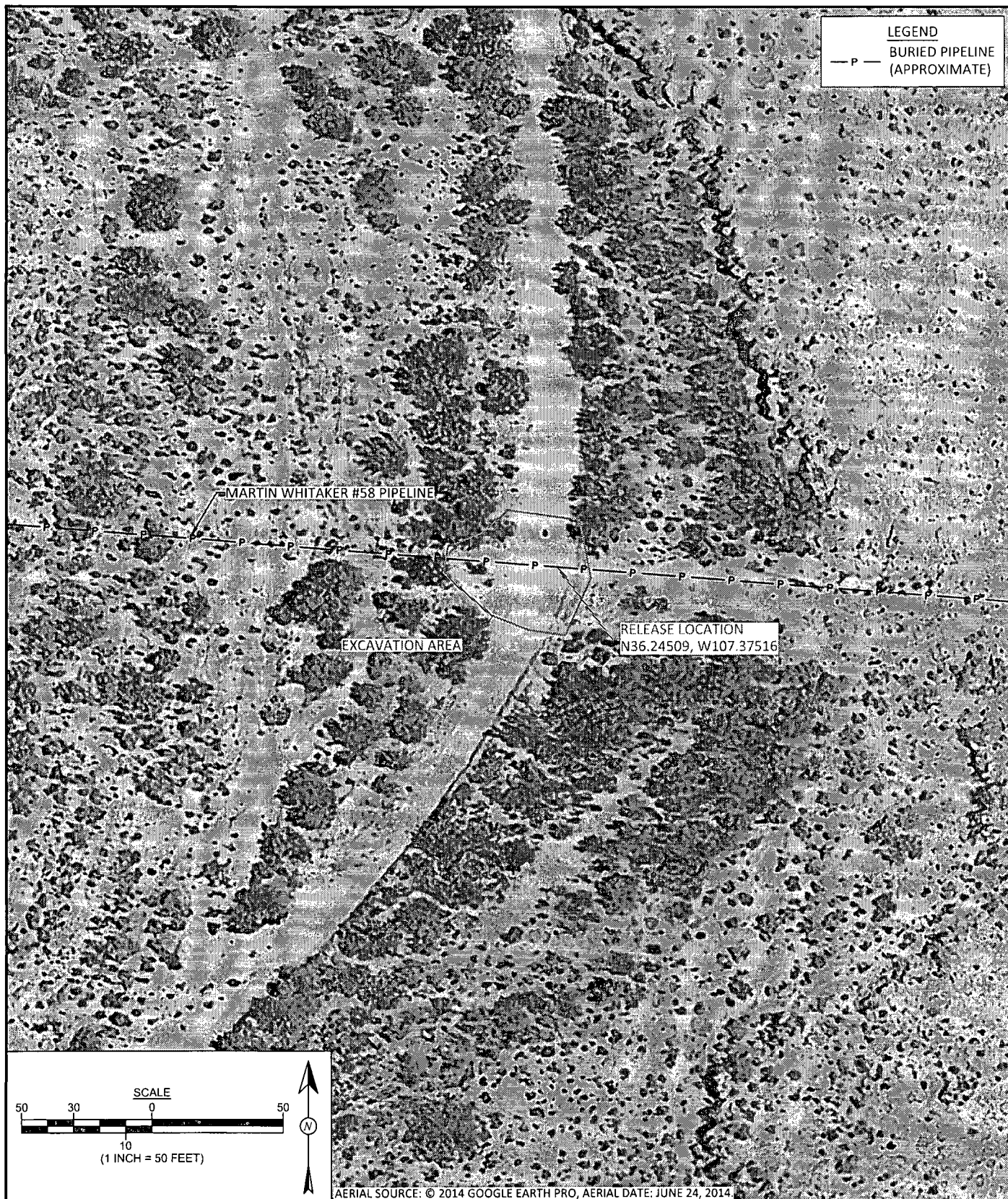
**CHECKED BY:**  
E. Skyles


**DATE CHECKED:**  
December 22, 2014

**APPROVED BY:**  
E. McNally

**DATE APPROVED:**  
December 22, 2014

**TOPOGRAPHIC SITE LOCATION MAP**  
BEELINE GAS SYSTEMS  
MARTIN WHITAKER #58 PIPELINE RELEASE  
NW¼ NW¼, SECTION 9, T23N, R5W  
RIO ARRIBA COUNTY, NEW MEXICO  
N36.24509, W107.37516



 <b>AES</b> Animas Environmental Services, LLC	<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> December 22, 2014	<b>FIGURE 2</b>  <b>AERIAL SITE MAP          DECEMBER 2014</b> BEELINE GAS SYSTEMS MARTIN WHITAKER #58 PIPELINE RELEASE NW¼ NW¼, SECTION 9, T23N, R5W RIO ARriba COUNTY, NEW MEXICO N36.24509, W107.37516
	<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> December 22, 2014	
	<b>CHECKED BY:</b> E. Skyles	<b>DATE CHECKED:</b> December 22, 2014	
	<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> December 22, 2014	

# FIGURE 3

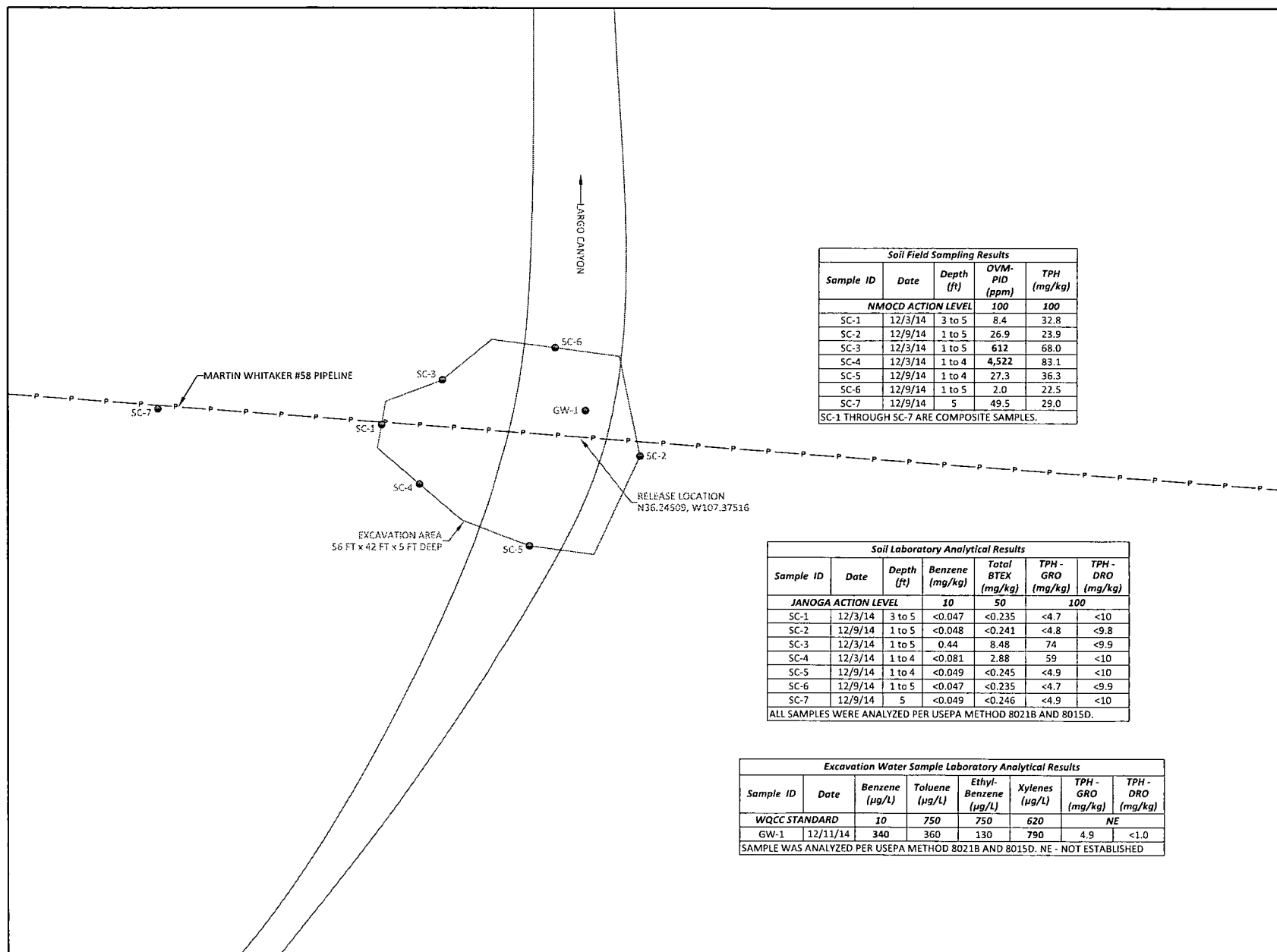
**FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS**  
**DECEMBER 2014**  
 BEELINE GAS SYSTEMS  
 MARTIN WHITAKER #58 PIPELINE RELEASE  
 NW¼ NW¼, SECTION 9, T23N, R5W  
 RIO ARriba COUNTY, NEW MEXICO  
 N36.24509, W107.37516



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> December 22, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> April 10, 2015
<b>CHECKED BY:</b> E. Skyles	<b>DATE CHECKED:</b> April 10, 2015
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> April 10, 2015

**LEGEND**

- SAMPLE LOCATIONS
- P — BURIED PIPELINE (APPROXIMATE)



Soil Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
			<b>NMOC ACTION LEVEL</b>	<b>100</b>
SC-1	12/3/14	3 to 5	8.4	32.8
SC-2	12/9/14	1 to 5	26.9	23.9
SC-3	12/3/14	1 to 5	612	68.0
SC-4	12/3/14	1 to 4	4,522	83.1
SC-5	12/9/14	1 to 4	27.3	36.3
SC-6	12/9/14	1 to 5	2.0	22.5
SC-7	12/9/14	5	49.5	29.0

SC-1 THROUGH SC-7 ARE COMPOSITE SAMPLES.

Soil Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
JANOGA ACTION LEVEL			10	50	100	
SC-1	12/3/14	3 to 5	<0.047	<0.235	<4.7	<10
SC-2	12/9/14	1 to 5	<0.048	<0.241	<4.8	<9.8
SC-3	12/3/14	1 to 5	0.44	8.48	74	<9.9
SC-4	12/3/14	1 to 4	<0.081	2.88	59	<10
SC-5	12/9/14	1 to 4	<0.049	<0.245	<4.9	<10
SC-6	12/9/14	1 to 5	<0.047	<0.235	<4.7	<9.9
SC-7	12/9/14	5	<0.049	<0.246	<4.9	<10
ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 8015D.						

Excavation Water Sample Laboratory Analytical Results						
Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	TPH - GRO (mg/kg)
<b>WQCC STANDARD</b>		<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>	<b>NE</b>
GW-1	12/11/14	340	360	130	790	4.9

SAMPLE WAS ANALYZED PER USEPA METHOD 8021B AND 8015D. NE - NOT ESTABLISHED

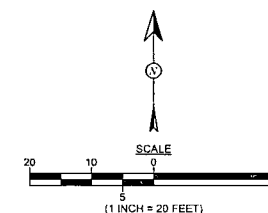


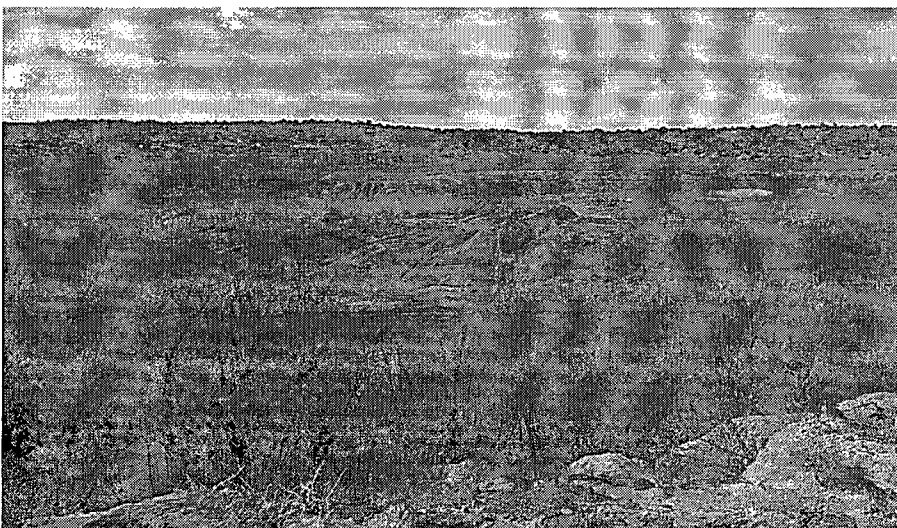
Photo #1	
Client: Beeline Gas Systems	
Project Name: Martin Whitaker #58  Rio Arriba County, NM	
Date Photo Taken: December 9, 2014	
Wellhead GPS and Location: 36.24509, -107.37516	
NW¼ NW¼, Section 9, T23N, R5W	
Taken by: Emilee Skyles, AES	Subject: Excavation Clearance, December 2014
	Excavation Dimensions: 56 ft x 42 ft x 5 ft deep
	Description: Facing west, overview of excavation within Largo Wash.

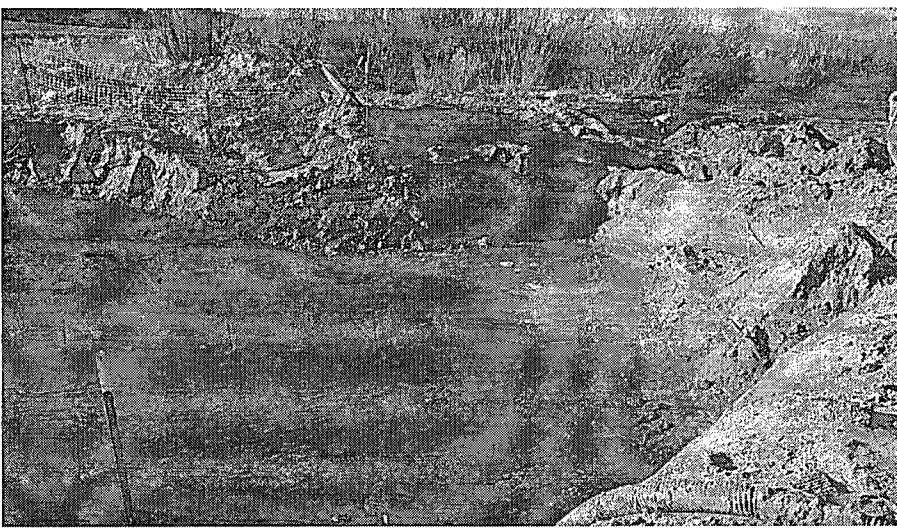

Photo #2	
Client: Beeline Gas Systems	
Project Name: Martin Whitaker #58  Rio Arriba County, NM	
Date Photo Taken: December 9, 2014	
Wellhead GPS and Location: 36.24509, -107.37516	
NW¼ NW¼, Section 9, T23N, R5W	
Taken by: Emilee Skyles, AES	Subject: Excavation Clearance, December 2014
	Excavation Dimensions: 56 ft x 42 ft x 5 ft deep
	Description: Facing north, final excavation limits of the northern half of the excavation. Water sample GW-1 was collected from the recharged water near the middle of the photo. Depth to water is approximately 5 feet bgs.

Photo #3	
Client: Beeline Gas Systems	
Project Name: Martin Whitaker #58  Rio Arriba County, NM	
Date Photo Taken: December 9, 2014	
Wellhead GPS and Location: 36.24509, -107.37516  NW¼ NW¼, Section 9, T23N, R5W	
Taken by: Emilee Skyles, AES	Subject: Excavation Clearance, December 2014
	Excavation Dimensions: 56 ft x 42 ft x 5 ft deep
	Description: Facing west, final excavation limits of the southern half of the excavation. In the background is the pipeline corridor from which soil sample SC-7 was collected. Depth to water is approximately 5 feet bgs.

# AES Field Sampling Report

Animas Environmental Services, LLC



Client: Beeline Gas Systems

Project Location: Martin Whitaker

Date: 12/3/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	12/3/2014	9:50	West Wall	8.4	32.8	10:52	20.0	1	EMS
SC-3	12/3/2014	9:55	Northwest Wall	612	68.0	10:56	20.0	1	EMS
SC-4	12/3/2014	9:59	Southwest Wall	4,522	83.1	10:58	20.0	1	EMS

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

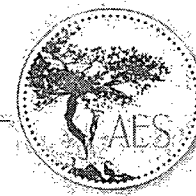
\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Emil Syl*

# AES Field Sampling Report

Animas Environmental Services, LLC



Client: Beeline Gas Systems

Project Location: Martin Whitaker

Date: 12/9/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-2	12/9/2014	12:25	East Wall	26.9	23.9	13:18	20.0	1	EMS
SC-5	12/9/2014	12:40	Southeast Wall	27.3	36.3	13:20	20.0	1	EMS
SC-6	12/9/2014	12:34	North Wall	2.0	22.5	13:15	20.0	1	EMS
SC-7	12/9/2014	15:25	Pipeline Comp.	49.5	29.0	15:59	20.0	1	EMS

DF Dilution Factor  
NA Not Analyzed  
PQL Practical Quantitation Limit

*\*TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Enik Skyl*



*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

December 12, 2014

Emilee Skyles  
Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: Beeline Martin Whitaker #58

OrderNo.: 1412465

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/10/2014 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](http://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 qualifiers 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  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 1412465

Date Reported: 12/12/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-4

Project: Beeline Martin Whitaker #58

Collection Date: 12/3/2014 9:59:00 AM

Lab ID: 1412465-001

Matrix: MEOH (SOIL)

Received Date: 12/10/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/10/2014 9:51:42 AM	16749
Surr: DNOP	71.5	63.5-128		%REC	1	12/10/2014 9:51:42 AM	16749
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	59	16		mg/Kg	5	12/11/2014 11:13:48 AM	16757
Surr: BFB	152	80-120	S	%REC	5	12/11/2014 11:13:48 AM	16757
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.081		mg/Kg	5	12/11/2014 11:13:48 AM	16757
Toluene	ND	0.16		mg/Kg	5	12/11/2014 11:13:48 AM	16757
Ethylbenzene	0.28	0.16		mg/Kg	5	12/11/2014 11:13:48 AM	16757
Xylenes, Total	2.6	0.32		mg/Kg	5	12/11/2014 11:13:48 AM	16757
Surr: 4-Bromofluorobenzene	103	80-120		%REC	5	12/11/2014 11:13:48 AM	16757

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

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
	O	RSD is greater than RSDlimit	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#: 1412465

12-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker #58

Sample ID	LCS-16749		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 16749		RunNo: 23040					
Prep Date:	12/9/2014		Analysis Date: 12/10/2014		SeqNo: 680736		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.1	68.6	130			
Surr: DNOP	4.3		5.000		85.1	63.5	128			

Sample ID	MB-16749		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 16749		RunNo: 23040					
Prep Date:	12/9/2014		Analysis Date: 12/10/2014		SeqNo: 680982		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	7.2		10.00		71.8	63.5	128			

### 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               |
| O RSD is greater than RSDlimit                    | 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#: 1412465

12-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker #58

Sample ID	MB-16757	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	16757	RunNo:	23073					
Prep Date:	12/10/2014	Analysis Date:	12/11/2014	SeqNo:	681989	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	920		1000		91.9	80	120			

Sample ID	LCS-16757	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	16757	RunNo:	23073					
Prep Date:	12/10/2014	Analysis Date:	12/11/2014	SeqNo:	681990	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.7	65.8	139			
Surr: BFB	990		1000		98.8	80	120			

## 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               |
| O RSD is greater than RSDlimit                    | 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#: 1412465

12-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker #58

Sample ID	MB-16757	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	16757	RunNo:	23073					
Prep Date:	12/10/2014	Analysis Date:	12/11/2014	SeqNo:	682023	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	0.99		1.000		99.3	80	120			

Sample ID	LCS-16757	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	16757	RunNo:	23073					
Prep Date:	12/10/2014	Analysis Date:	12/11/2014	SeqNo:	682024	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.3	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	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



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: 1412465

RcptNo: 1

Received by/date:

*[Signature]*  
12/10/14

Logged By: Ashley Gallegos

12/10/2014 8:00:00 AM

*[Signature]*

Completed By: Ashley Gallegos

12/10/2014 8:30:32 AM

*[Signature]*

Reviewed By:

*IC*

12/10/2014

### Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
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 ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

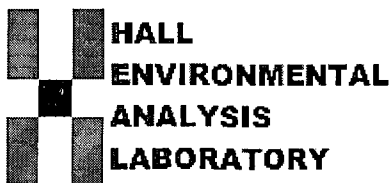
Client Instructions:

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			





*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

December 15, 2014

Emilee Skyles  
Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: Beeline Martin Whitaker # 58

OrderNo.: 1412469

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/10/2014 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](http://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 qualifiers 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## **Beeline Gas Systems**

2001 E. Blanco Blvd.  
P. O. Box 1280  
Bloomfield, NM 87413  
(505) 634-1144

**OIL CONS. DIV DIST. 3**

April 22, 2015

APR 27 2015

State of New Mexico Energy Minerals and Natural Resources  
Oil Conservation Division – Aztec Office  
1000 Rio Brazos Road  
Aztec, NM 87410  
Attention: Cory Smith

**Certified Mail – Return Receipt Requested – 7008 1300 0001 3401 8891**

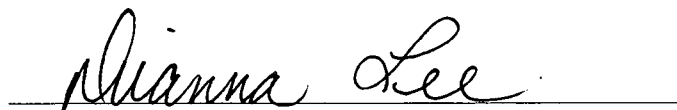
Subject: Martin Whitaker # 58 – Beeline Gas Systems

Please find attached updated C-141 and final lab results for soil sampling and water sample that were taken at the release location.

Should you have any questions or concerns with submittal or the attached check please feel free to contact me at 505-330-2736 or by e-mail at [BeelineRegulatory@elmridge.net](mailto:BeelineRegulatory@elmridge.net).

Thank you for your time

Sincerely,

A handwritten signature in cursive script, reading "Dianna Lee", is written over a horizontal line.

Dianna Lee  
Regulatory Compliance Administrator

## Analytical Report

Lab Order 1412469

Date Reported: 12/15/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: Beeline Martin Whitaker # 58

Collection Date: 12/3/2014 9:50:00 AM

Lab ID: 1412469-001

Matrix: SOIL

Received Date: 12/10/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/11/2014 1:20:34 PM	16761
Surr: DNOP	79.7	63.5-128		%REC	1	12/11/2014 1:20:34 PM	16761
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/11/2014 2:05:56 PM	16757
Surr: BFB	92.5	80-120		%REC	1	12/11/2014 2:05:56 PM	16757
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	12/11/2014 2:05:56 PM	16757
Toluene	ND	0.047		mg/Kg	1	12/11/2014 2:05:56 PM	16757
Ethylbenzene	ND	0.047		mg/Kg	1	12/11/2014 2:05:56 PM	16757
Xylenes, Total	ND	0.094		mg/Kg	1	12/11/2014 2:05:56 PM	16757
Surr: 4-Bromofluorobenzene	98.2	80-120		%REC	1	12/11/2014 2:05:56 PM	16757

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 9
	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	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

## Analytical Report

Lab Order 1412469

Date Reported: 12/15/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-2

Project: Beeline Martin Whitaker # 58

Collection Date: 12/9/2014 12:25:00 PM

Lab ID: 1412469-002

Matrix: SOIL

Received Date: 12/10/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/11/2014 1:42:06 PM	16761
Surr: DNOP	78.2	63.5-128		%REC	1	12/11/2014 1:42:06 PM	16761
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/11/2014 2:34:29 PM	16757
Surr: BFB	92.0	80-120		%REC	1	12/11/2014 2:34:29 PM	16757
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.048		mg/Kg	1	12/11/2014 2:34:29 PM	16757
Toluene	ND	0.048		mg/Kg	1	12/11/2014 2:34:29 PM	16757
Ethylbenzene	ND	0.048		mg/Kg	1	12/11/2014 2:34:29 PM	16757
Xylenes, Total	ND	0.097		mg/Kg	1	12/11/2014 2:34:29 PM	16757
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1	12/11/2014 2:34:29 PM	16757

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 9
	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	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

## Analytical Report

Lab Order 1412469

Date Reported: 12/15/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-3

Project: Beeline Martin Whitaker # 58

Collection Date: 12/3/2014 9:55:00 AM

Lab ID: 1412469-003

Matrix: SOIL

Received Date: 12/10/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/11/2014 2:28:02 PM	16761
Surr: DNOP	76.2	63.5-128		%REC	1	12/11/2014 2:28:02 PM	16761
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	74	23		mg/Kg	5	12/11/2014 3:03:09 PM	16757
Surr: BFB	121	80-120	S	%REC	5	12/11/2014 3:03:09 PM	16757
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.44	0.23		mg/Kg	5	12/11/2014 3:03:09 PM	16757
Toluene	2.9	0.23		mg/Kg	5	12/11/2014 3:03:09 PM	16757
Ethylbenzene	0.54	0.23		mg/Kg	5	12/11/2014 3:03:09 PM	16757
Xylenes, Total	4.6	0.47		mg/Kg	5	12/11/2014 3:03:09 PM	16757
Surr: 4-Bromofluorobenzene	104	80-120		%REC	5	12/11/2014 3:03:09 PM	16757

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

## Analytical Report

Lab Order 1412469

Date Reported: 12/15/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: Beeline Martin Whitaker # 58

Collection Date: 12/9/2014 12:40:00 PM

Lab ID: 1412469-004

Matrix: SOIL

Received Date: 12/10/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/11/2014 2:49:38 PM	16761
Surr: DNOP	74.9	63.5-128		%REC	1	12/11/2014 2:49:38 PM	16761
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2014 3:31:42 PM	16757
Surr: BFB	92.3	80-120		%REC	1	12/11/2014 3:31:42 PM	16757
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	12/11/2014 3:31:42 PM	16757
Toluene	ND	0.049		mg/Kg	1	12/11/2014 3:31:42 PM	16757
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2014 3:31:42 PM	16757
Xylenes, Total	ND	0.098		mg/Kg	1	12/11/2014 3:31:42 PM	16757
Surr: 4-Bromofluorobenzene	99.0	80-120		%REC	1	12/11/2014 3:31:42 PM	16757

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 4 of 9
	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	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

## Analytical Report

Lab Order 1412469

Date Reported: 12/15/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-6

Project: Beeline Martin Whitaker # 58

Collection Date: 12/9/2014 12:34:00 PM

Lab ID: 1412469-005

Matrix: SOIL

Received Date: 12/10/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/11/2014 3:11:16 PM	16761
Surr: DNOP	80.4	63.5-128		%REC	1	12/11/2014 3:11:16 PM	16761
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/11/2014 4:00:25 PM	16757
Surr: BFB	93.6	80-120		%REC	1	12/11/2014 4:00:25 PM	16757
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.047		mg/Kg	1	12/11/2014 4:00:25 PM	16757
Toluene	ND	0.047		mg/Kg	1	12/11/2014 4:00:25 PM	16757
Ethylbenzene	ND	0.047		mg/Kg	1	12/11/2014 4:00:25 PM	16757
Xylenes, Total	ND	0.094		mg/Kg	1	12/11/2014 4:00:25 PM	16757
Surr: 4-Bromofluorobenzene	98.5	80-120		%REC	1	12/11/2014 4:00:25 PM	16757

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 5 of 9
	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	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

## Analytical Report

Lab Order 1412469

Date Reported: 12/15/2014

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-7

Project: Beeline Martin Whitaker # 58

Collection Date: 12/9/2014 3:25:00 PM

Lab ID: 1412469-006

Matrix: SOIL

Received Date: 12/10/2014 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE ORGANICS</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/11/2014 3:32:51 PM	16761
Surr: DNOP	80.1	63.5-128		%REC	1	12/11/2014 3:32:51 PM	16761
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/11/2014 4:29:08 PM	16757
Surr: BFB	92.2	80-120		%REC	1	12/11/2014 4:29:08 PM	16757
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.049		mg/Kg	1	12/11/2014 4:29:08 PM	16757
Toluene	ND	0.049		mg/Kg	1	12/11/2014 4:29:08 PM	16757
Ethylbenzene	ND	0.049		mg/Kg	1	12/11/2014 4:29:08 PM	16757
Xylenes, Total	ND	0.099		mg/Kg	1	12/11/2014 4:29:08 PM	16757
Surr: 4-Bromofluorobenzene	97.8	80-120		%REC	1	12/11/2014 4:29:08 PM	16757

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 6 of 9
	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	
	O	RSD is greater than RSDlimit	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#: 1412469

15-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker # 58

Sample ID	MB-16761	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	16761	RunNo:	23040					
Prep Date:	12/10/2014	Analysis Date:	12/10/2014	SeqNo:	681318	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	7.3		10.00		73.4	63.5	128			

Sample ID	LCS-16761	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	16761	RunNo:	23040					
Prep Date:	12/10/2014	Analysis Date:	12/10/2014	SeqNo:	681339	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	68.6	130			
Surr: DNOP	4.4		5.000		87.2	63.5	128			

Sample ID	MB-16773	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	16773	RunNo:	23067					
Prep Date:	12/11/2014	Analysis Date:	12/11/2014	SeqNo:	683101	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3		10.00		73.0	63.5	128			

Sample ID	LCS-16773	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	16773	RunNo:	23067					
Prep Date:	12/11/2014	Analysis Date:	12/11/2014	SeqNo:	683102	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.1	63.5	128			

### 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               |
| O RSD is greater than RSDlimit                    | 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#: 1412469

15-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker # 58

Sample ID	MB-16757	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	16757	RunNo:	23073					
Prep Date:	12/10/2014	Analysis Date:	12/11/2014	SeqNo:	681989	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	920		1000		91.9	80	120			

Sample ID	LCS-16757	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	16757	RunNo:	23073					
Prep Date:	12/10/2014	Analysis Date:	12/11/2014	SeqNo:	681990	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.7	65.8	139			
Surr: BFB	990		1000		98.8	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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1412469

15-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker # 58

Sample ID	<b>MB-16757</b>		SampType:	<b>MBLK</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>PBS</b>		Batch ID:	<b>16757</b>		RunNo:	<b>23073</b>			
Prep Date:	<b>12/10/2014</b>		Analysis Date:	<b>12/11/2014</b>		SeqNo:	<b>682023</b>		Units: <b>mg/Kg</b>	
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	<b>LCS-16757</b>		SampType:	<b>LCS</b>		TestCode:	<b>EPA Method 8021B: Volatiles</b>			
Client ID:	<b>LCSS</b>		Batch ID:	<b>16757</b>		RunNo:	<b>23073</b>			
Prep Date:	<b>12/10/2014</b>		Analysis Date:	<b>12/11/2014</b>		SeqNo:	<b>682024</b>		Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.3	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

## 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               |
| O RSD is greater than RSDlimit                    | P Sample pH greater than 2.                          |
| R RPD outside accepted recovery limits            | RL Reporting Detection Limit                         |
| S Spike Recovery outside accepted recovery limits |  |



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87106  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1412469

RcptNo: 1

Received by/date:

AG 12/10/14

Logged By: Celina Sessa

12/10/2014 8:00:00 AM

*Celina Sessa*

Completed By: Celina Sessa

12/10/2014 9:20:36 AM

*Celina Sessa*

Reviewed By:

TD

12/10/14

### 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

### Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
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 ☒
12. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. 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)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: <u>Animas Environmental Services</u>	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush _____
Mailing Address: <u>604 W. Pinar</u>	Project Name: <u>Beeline Martin Whitaker #58</u>	
<u>Farmington, N.M. 87401</u>	Project #:	
Phone #: <u>505-564-2281</u>	Project Manager:	
email or Fax#:	<u>E. Skyles</u>	
QA/QC Package:		
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation:	Sampler: <u>E. Skyles</u>	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____	
<input type="checkbox"/> EDD (Type) _____	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Sample Temperature: <u>17.0</u>	

☒ Standard ☐ Rush

Project Name:

Peelie Martin Whitaker #58

Project #:

Project Manager:

E Skyles

Sampler: F. Skiles

On Ice: ☒ Yes ☐ No

Sample Temperature: 10



[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel: 505-345-3975 Fax: 505-345-4107

### Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date:	Time:
12/9/14	0847	SLH SL	Christine Weber	12/9/14	1847
Date:	Time:	Relinquished by:	Received by:	Date:	Time:
1/9/15	0931	Christine Weber	[Signature]	12/11/14	0815

Remarks:

If necessary samples submitted to Hall Environmental may be subcontracted to other qualified laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted 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](http://www.hallenvironmental.com)*

December 16, 2014

Emilee Skyles  
Animas Environmental Services  
604 Pinon Street  
Farmington, NM 87401  
TEL: (505) 564-2281  
FAX (505) 324-2022

RE: Beeline Martin Whitaker #58

OrderNo.: 1412598

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/12/2014 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](http://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 qualifiers 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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1412598

Date Reported: 12/16/2014

CLIENT: Animas Environmental Services

Client Sample ID: GW-1

Project: Beeline Martin Whitaker #58

Collection Date: 12/11/2014 1:30:00 PM

Lab ID: 1412598-001

Matrix: AQUEOUS

Received Date: 12/12/2014 7:32:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015D: DIESEL RANGE</b>							Analyst: <b>BCN</b>
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/12/2014 8:13:27 PM	16791
Surr: DNOP	101	59-141		%REC	1	12/12/2014 8:13:27 PM	16791
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	4.9	2.5		mg/L	50	12/12/2014 4:55:44 PM	R23126
Surr: BFB	95.8	80-120		%REC	50	12/12/2014 4:55:44 PM	R23126
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	340	50		µg/L	50	12/12/2014 4:55:44 PM	R23126
Toluene	360	50		µg/L	50	12/12/2014 4:55:44 PM	R23126
Ethylbenzene	130	50		µg/L	50	12/12/2014 4:55:44 PM	R23126
Xylenes, Total	790	100		µg/L	50	12/12/2014 4:55:44 PM	R23126
Surr: 4-Bromofluorobenzene	109	66.6-167		%REC	50	12/12/2014 4:55:44 PM	R23126

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

<b>Qualifiers:</b>	*	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
	O	RSD is greater than RSDlimit	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#: 1412598

16-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker #58

Sample ID	MB-16791	SampType	MBLK	TestCode	EPA Method 8015D: Diesel Range					
Client ID	PBW	Batch ID	16791	RunNo	23096					
Prep Date	12/12/2014	Analysis Date	12/12/2014	SeqNo	682802	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Surr: DNOP	1.0		1.000		103	59	141			

Sample ID	LCS-16791	SampType	LCS	TestCode	EPA Method 8015D: Diesel Range					
Client ID	LCSW	Batch ID	16791	RunNo	23096					
Prep Date	12/12/2014	Analysis Date	12/12/2014	SeqNo	682803	Units: mg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	121	69.7	142			
Surr: DNOP	0.60		0.5000		120	59	141			

## 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               |
| O RSD is greater than RSDlimit                    | 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#: 1412598

16-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker #58

Sample ID	5ML RB	SampType	MBLK	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	PBW	Batch ID	R23126	RunNo	23126					
Prep Date:		Analysis Date	12/12/2014	SeqNo	683028	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	18		20.00		92.3	80	120			

Sample ID	2.5UG GRO LCS	SampType	LCS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	LCSW	Batch ID	R23126	RunNo	23126					
Prep Date:		Analysis Date	12/12/2014	SeqNo	683032	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.46	0.050	0.5000	0	92.9	80	120			
Surr: BFB	19		20.00		95.6	80	120			

Sample ID	1412598-001AMS	SampType	MS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	GW-1	Batch ID	R23126	RunNo	23126					
Prep Date:		Analysis Date	12/12/2014	SeqNo	683053	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	2.5	25.00	4.910	94.3	70.4	127			
Surr: BFB	1000		1000		102	80	120			

Sample ID	1412598-001AMSD	SampType	MSD	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	GW-1	Batch ID	R23126	RunNo	23126					
Prep Date:		Analysis Date	12/12/2014	SeqNo	683054	Units	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	2.5	25.00	4.910	88.6	70.4	127	5.08	20	
Surr: BFB	1000		1000		99.9	80	120	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               |
| O RSD is greater than RSDlimit                    | 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#: 1412598

16-Dec-14

Client: Animas Environmental Services

Project: Beeline Martin Whitaker #58

Sample ID	5ML RB	SampType	MBLK	TestCode	EPA Method 8021B: Volatiles					
Client ID	PBW	Batch ID	R23126	RunNo	23126					
Prep Date:		Analysis Date:	12/12/2014	SeqNo	683087	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		104	66.6	167	0	0	

Sample ID	100NG BTEX LCS	SampType	LCS	TestCode	EPA Method 8021B: Volatiles					
Client ID	LCSW	Batch ID	R23126	RunNo	23126					
Prep Date:		Analysis Date:	12/12/2014	SeqNo	683089	Units	µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.1	80	120			
Toluene	19	1.0	20.00	0	96.3	80	120			
Ethylbenzene	19	1.0	20.00	0	97.3	80	120			
Xylenes, Total	60	2.0	60.00	0	100	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		111	66.6	167			

## 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               |
| O RSD is greater than RSDlimit                    | P Sample pH greater than 2.                          |
| R RPD outside accepted recovery limits            | RL Reporting Detection Limit                         |
| S Spike Recovery outside accepted recovery limits |  |



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: 1412598

RcptNo: 1

Received by/date:	AT 12/12/14		
Logged By:	Anne Thorne	12/12/2014 7:32:00 AM	Anne Thorne
Completed By:	Anne Thorne	12/12/2014	Anne Thorne
Reviewed By:	[Signature]	12/12/14	

### Chain of Custody

- |  |   |                             |   |
|--|---|-----------------------------|---|
| 1. Custody seals intact on sample bottles? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 2. Is Chain of Custody complete?           | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 3. How was the sample delivered?           | Courier                                 |                             |   |

### Log In

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

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

### Special Handling (if applicable)

- |   |                              |                             |  |
|---|------------------------------|-----------------------------|--|
| 16. Was client notified of all discrepancies with this order? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
|---|------------------------------|-----------------------------|--|

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.3	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: <u>Animas Environmental Services</u>	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Mailing Address: <u>604 W. Anson</u>	Project Name: <u>Decline Martin Whitaker #58</u>	
<u>Farmington, NM 87401</u>	Project #:	
Phone #: <u>505-564-2281</u>	Project Manager:	
email or Fax#:	<u>E. Skyles</u>	
QA/QC Package:		
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation:	Sampler: <u>E Skyles</u>	
<input type="checkbox"/> NELAP	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type)	Sample Temperature: <u>13</u>	

☒ Standard      ☐ Rush

Project Name:

Decline Martin Whitaker #58

Project #:

**Project Manager:**

E. Skyles  
Sampler: E Skyles

On Ice: ☒ Yes ☐ No

Sample Temperature:

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date:	Time:
4/1/14	1750	SKYL	Christine Walker	12/11/14	1758
Date:	Time:	Relinquished by:	Received by:	Date:	Time:
2/11/14	1849	Christine Walker	Christine Walker	12/12/14	1758

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.



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenenvironmental.com](http://www.hallenenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel: 505-345-3975 Fax: 505-345-4107

## Analysis Request

X	BTEX + MTBE + THBs (8021)
	BTEX + MTBE + TPH (Gas only)
X	TPH 8015B (GRO VOA) (MRO)
	TPH (Method 418.1)
	EDB (Method 504.1)
	PAH's (8310 or 8270 SIMS)
	RCRA 8 Metals
	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )
	6081 Pesticides / 8082 PCB's
	8260B (VOA)
	8270 (Semi-VOA)
	Air Bubbles (Y or N)