

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

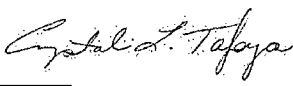
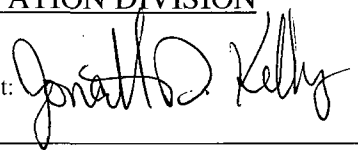
| | | |
|---|--------------------------------------|-----------------------------|
| Name of Company ConocoPhillips Company | Contact Crystal Tafoya | |
| Address 3401 East 30th St, Farmington, NM | Telephone No. (505) 326-9837 | |
| Facility Name: San Juan 32 Federal 12 # 1A | Facility Type: Gas Well | |
| Surface Owner BLM | Mineral Owner BLM (SF-079329) | API No. 30-045-31608 |

LOCATION OF RELEASE

| | | | | | | | | |
|-------------------------|----------------------|------------------------|--------------------|------------------------------|----------------------------------|------------------------------|-------------------------------|---------------------------|
| Unit Letter I | Section 12 | Township 32N | Range 9W | Feet from the 1695 | North/South Line South | Feet from the 1380 | East/West Line East | County San Juan |
|-------------------------|----------------------|------------------------|--------------------|------------------------------|----------------------------------|------------------------------|-------------------------------|---------------------------|

Latitude **36.99583** Longitude **107.72528**

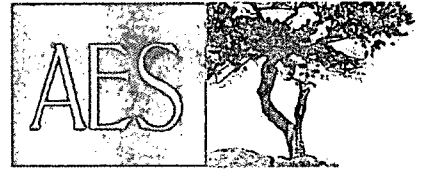
NATURE OF RELEASE

| | | |
|--|---|--|
| Type of Release Produced Water | Volume of Release ~164bbls | Volume Recovered ~117bbls |
| Source of Release Transfer Pump | Date and Hour of Occurrence Unknown | Date and Hour of Discovery 8/15/2012 at 9:30am |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Brandon Powell (OCD) & Mark Kelly (BLM) | |
| By Whom? Crystal Tafoya | Date and Hour 8/16/2012 at 9:15am | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | |
| If a Watercourse was Impacted, Describe Fully.* N/A | | |
| Describe Cause of Problem and Remedial Action Taken.* 3/8" stainless steel tubing broke from the fitting on the line that goes from the discharge side of the transfer pump to the discharge transmitter. Water filled the berm around the water tanks and seeped to the outside, but remained on location. The transfer pump was immediately shut off and the 1" ball valve up stream of the line leak was closed. Water trucks were called immediately to pull the water from inside the berm where ~117bbls was recovered. | | |
| Describe Area Affected and Cleanup Action Taken.* Soil sampling was conducted by a third party and results were below NMOCD action levels. The soil was treated in place with MicroBlaze aggressively and the location is visible appealing. The soil sampling and assessment 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:  | OIL CONSERVATION DIVISION | |
| Printed Name: Crystal Tafoya | Approved by Environmental Specialist:  | |
| Title: Field Environmental Specialist | Approval Date: 11/27/2012 | Expiration Date: |
| E-mail Address: crystal.tafoya@conocophillips.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: 8/20/2012 | Phone: (505) 326-9837 | |

* Attach Additional Sheets If Necessary

nJK1233252076

26



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3274

November 7, 2012

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

**RE: Initial Release Assessment Report
San Juan 32 Federal 12 #1A
San Juan County, New Mexico**

Dear Ms. Tafoya:

On August 16, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment at the ConocoPhillips (CoP) San Juan 32 Federal 12 #1A, located in San Juan County, New Mexico. A release occurred at the location as a result of a faulty transfer pump and was primarily contained within the secondary containment berm. The initial release assessment was completed by AES on August 16, 2012.

1.0 Site Information

1.1 Location

Location – NW¼ SE¼, Section 12, T32N, R9W, San Juan County, New Mexico
Well Location Latitude/Longitude – N36.99587 and W107.72581, respectively
Release Latitude/Longitude – N36.99602 and W107.72619, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, August 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 2004 for the San Juan 32 Federal 12 #1A reported the depth to groundwater as 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. The wash in Beef Canyon is located approximately 700 feet northeast of the location. The site location has been assigned a ranking score of 10 per the *NMOCD Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Release Assessment

AES was initially contacted by Crystal Tafoya of CoP on August 15, 2012, and on August 16, 2012, Tom Long and Nathan Willis of AES completed the release assessment field work. The assessment included collection of 44 soil samples from 21 soil borings (SB-1 through SB-21) and one 5-point composite sample (SC-1) from within the release area. Sampling locations and results are presented on Figure 3.

2.0 Soil Sampling

A total of 44 soil samples and 1 composite soil sample were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Samples SB-10, SB-12 through SB-15, and SC-1 were submitted for confirmation 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 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed 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*.

2.2 Laboratory Analyses

The six soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto

a sample chain of custody record. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;

Note that SC-1 was only analyzed for chloride per USEPA Method 300.0.

2.3 Field Screening and Laboratory Analytical Results

Field screening results for VOCs via OVM showed concentrations ranging from 0.2 ppm in SB-8 and SB-19 at 2 feet up to 904 ppm in SB-14 at 2 feet. Field TPH concentrations ranged from 141 mg/kg in SB-12 at 1.5 feet up to 375 mg/kg if SB-15 at 1 foot. Results are included below in Table 1 and on Figure 3. The AES field screening report is attached.

Table 1. Soil Field Screening Results
San Juan 32 Federal 12 #1A Release Assessment, August 2012

| <i>Sample ID</i> | <i>Date Sampled</i> | <i>Sample Depth (ft bgs)</i> | <i>VOCs OVM Reading (ppm)</i> | <i>Field TPH (mg/kg)</i> |
|----------------------------|---------------------|------------------------------|-------------------------------|--------------------------|
| <i>NMOCD Action Level*</i> | | | <i>100</i> | <i>1,000</i> |
| SB-1 | 8/16/12 | 1 | 21.1 | 175 |
| | | 2 | 19.8 | NA |
| | | 3 | 25.7 | 178 |
| SB-2 | 8/16/12 | 1 | 2.0 | 234 |
| SB-3 | 8/16/12 | 1 | 0.4 | 161 |
| SB-4 | 8/16/12 | 1 | 0.4 | NA |
| | | 2 | 0.8 | 184 |
| SB-5 | 8/16/12 | 1 | 0.4 | NA |
| | | 2 | 0.5 | 167 |
| | | 3 | 0.5 | NA |
| SB-6 | 8/16/12 | 1 | 0.6 | NA |
| | | 2 | 0.8 | 153 |
| | | 3.5 | 0.7 | NA |
| SB-7 | 8/16/12 | 1 | 0.3 | NA |
| | | 2 | 0.5 | 147 |
| SB-8 | 8/16/12 | 1 | 0.6 | NA |
| | | 2 | 0.2 | 150 |
| SB-9 | 8/16/12 | 1 | 0.6 | NA |
| | | 1.5 | 0.8 | 147 |
| SB-10 | 8/16/12 | 1 | 26.2 | NA |

| Sample ID | Date Sampled | Sample Depth (ft bgs) | VOCs OVM Reading (ppm) | Field TPH (mg/kg) |
|------------------|---------------------|------------------------------|-------------------------------|--------------------------|
| | | <i>NMOCD Action Level*</i> | 100 | 1,000 |
| | | 2 | 222 | 153 |
| SB-11 | 8/16/12 | 1 | 92.9 | 184 |
| | | 2 | 37.6 | NA |
| | | 3 | 11.6 | NA |
| SB-12 | 8/16/12 | 1 | 42 | NA |
| | | 1.5 | 153 | 141 |
| SB-13 | 8/16/12 | 1 | 103 | NA |
| | | 2 | 347 | 156 |
| | | 2.5 | 210 | NA |
| SB-14 | 8/16/12 | 1 | 226 | NA |
| | | 2 | 904 | 243 |
| SB-15 | 8/16/12 | 1 | 554 | 375 |
| | | 2 | 325 | NA |
| | | 3 | 447 | 175 |
| SB-16 | 8/16/12 | 0.5 | 0.3 | 181 |
| SB-17 | 8/16/12 | 1 | 0.8 | NA |
| | | 2 | 0.8 | 319 |
| | | 3 | 1.3 | NA |
| SB-18 | 8/16/12 | 1 | 0.4 | 170 |
| SB-19 | 8/16/12 | 1 | 2.7 | NA |
| | | 2 | 0.2 | 240 |
| SB-20 | 8/16/12 | 1 | 1.8 | NA |
| | | 2 | 1.3 | 153 |
| SB-21 | 8/16/12 | 1 | 0.7 | 186 |

NA – Not Analyzed

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

Laboratory analyses were used to confirm field screening results from the assessment. Laboratory analytical results for all samples reported concentrations less than 0.050 mg/kg benzene and less than 0.25 mg/kg total BTEX. A chloride concentration of 53 mg/kg was reported in SC-1. Laboratory analytical results are summarized in Table 2 and included on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX and Chlorides
San Juan 32 Federal 12 #1A Release Assessment, August 2012

| <i>Sample ID</i> | <i>Date Sampled</i> | <i>Sample Depth (ft bgs)</i> | <i>Benzene (mg/kg)</i> | <i>BTEX (mg/kg)</i> | <i>GRO (mg/kg)</i> | <i>DRO (mg/kg)</i> | <i>Chlorides (mg/kg)</i> |
|---------------------------|---------------------|------------------------------|------------------------|---------------------|--------------------|--------------------|--------------------------|
| NMOCD Action Level | | | 10 | 50 | 1,000 | | 250 |
| SB-10 | 8/16/12 | 2 | <0.050 | <0.25 | NA | NA | NA |
| SB-12 | 8/16/12 | 1.5 | <0.050 | <0.25 | NA | NA | NA |
| SB-13 | 8/16/12 | 2 | <0.050 | <0.25 | NA | NA | NA |
| SB-14 | 8/16/12 | 2 | <0.050 | <0.25 | NA | NA | NA |
| SB-15 | 8/16/12 | 1 | <0.050 | <0.25 | NA | NA | NA |
| SC-1 | 8/16/12 | 0.5 to 1 | NA | NA | NA | NA | 53 |

NA=Not Analyzed

3.0 Conclusions and Recommendations

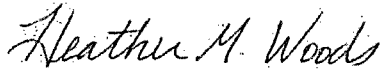
On August 16, 2012, AES conducted an initial assessment of a produced water release caused by a faulty transfer pump at the San Juan 32 Federal 12 #1A, located in San Juan County, New Mexico. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10. Field screening results above the NMOCD action level of 100 ppm for VOCs were reported in SB-10 and SB-12 through SB-15, with the highest concentration reported in SB-14 (904 ppm). However, field TPH results were reported below the NMOCD action level of 1,000 m/kg in all samples analyzed.

Samples selected for laboratory analyses reported benzene and total BTEX concentrations below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. The chloride concentration in SC-1 was reported below the NMOCD action level of 250 mg/kg with 53 mg/kg.

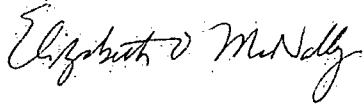
Based on visual observations along with field screening and laboratory analytical results, residual soil contaminants from the release do not exceed applicable NMOCD action levels. Therefore, no further work is recommended.

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

Sincerely,



Heather Woods
Staff Geologist

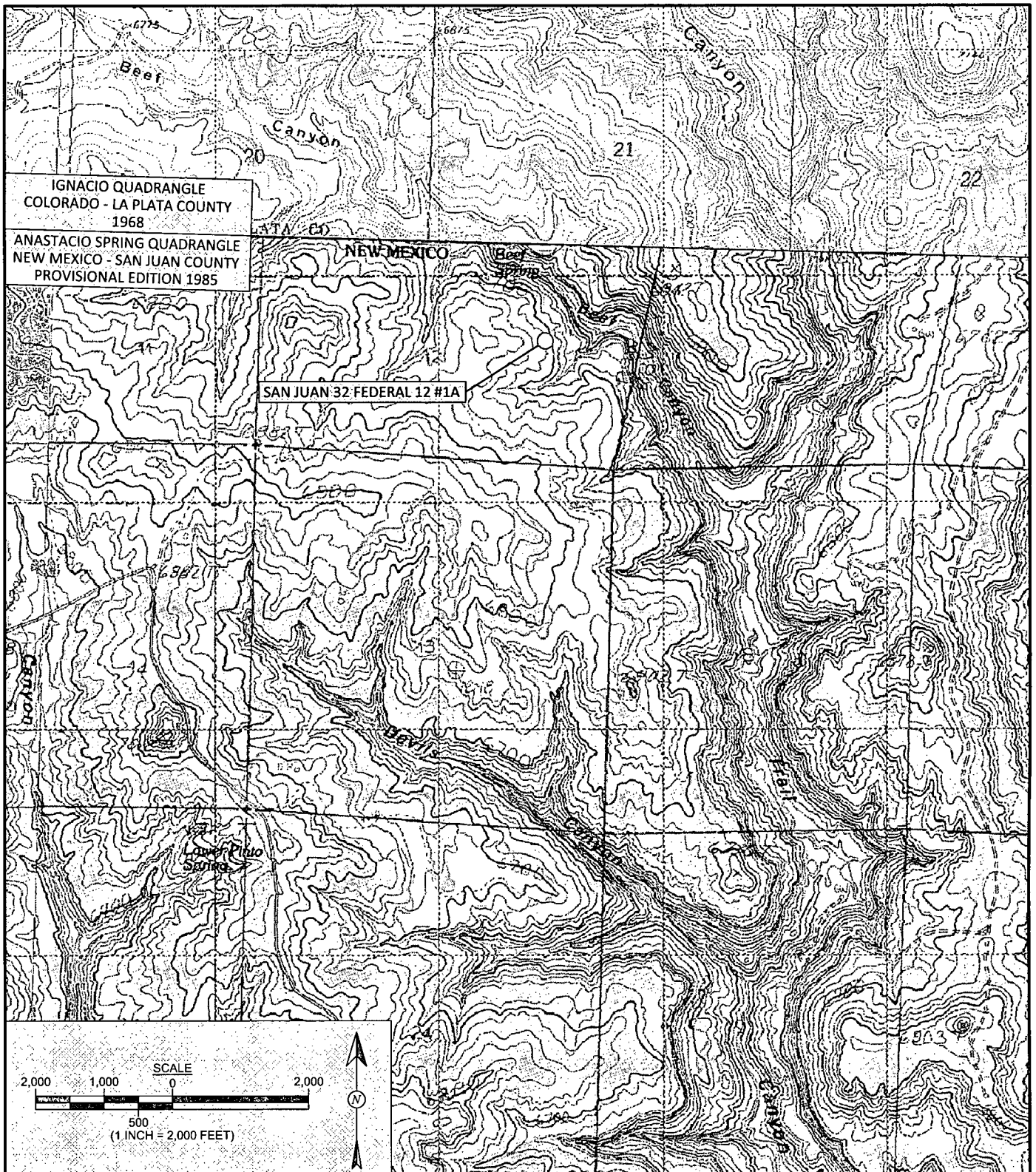


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, August 2012
- Figure 3. Initial Assessment Soil Sample Locations and Results, August 2012
- AES Field Screening Report 081612
- Hall Analytical Report 1208801
- Hall Analytical Report 1208876

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Assessment Report 110712.docx



Animas Environmental Services, LLC

DRAWN BY:

C. Lameman

DATE DRAWN:

August 20, 2012

REVISIONS BY:

C. Lameman

DATE REVISED:

August 20, 2012

CHECKED BY:

D. Watson

DATE CHECKED:

August 20, 2012

APPROVED BY:

E. McNally

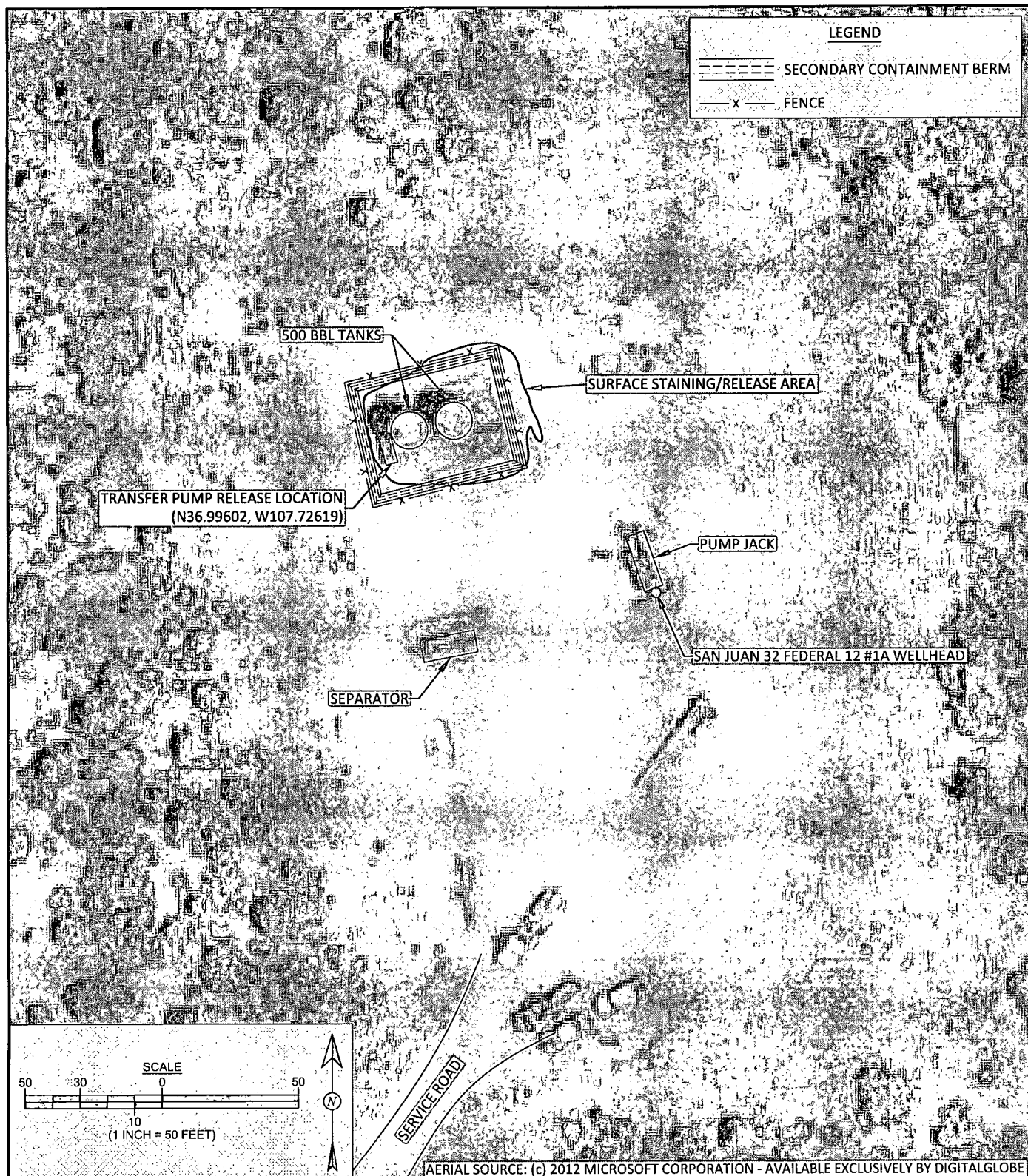
DATE APPROVED:

August 20, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 32 FEDERAL 12 #1A
SAN JUAN COUNTY, NEW MEXICO
NW¼ SE¼, SECTION 12, T32N, R9W
N36.99587, W107.72581



Animas Environmental Services, LLC

DRAWN BY:

C. Lameman

DATE DRAWN:

August 20, 2012

REVISIONS BY:

C. Lameman

DATE REVISED:

August 20, 2012

CHECKED BY:

D. Watson

DATE CHECKED:

August 20, 2012

APPROVED BY:

E. McNally

DATE APPROVED:

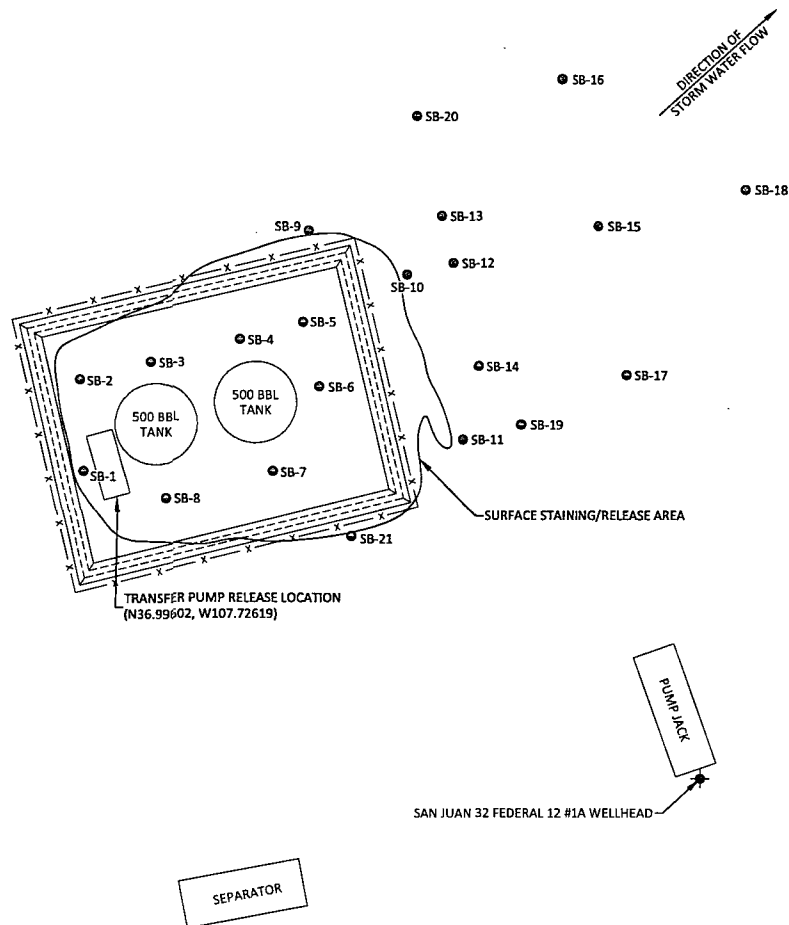
August 20, 2012

FIGURE 2

AERIAL SITE MAP AUGUST 2012

ConocoPhillips

SAN JUAN 32 FEDERAL 12 #1A
SAN JUAN COUNTY, NEW MEXICO
NW¼ SE¼, SECTION 12, T32N, R9W
N36.99587, W107.72581



| Field Screening Results | | | | |
|-------------------------|---------|--------------------|---------------|-------------|
| Sample ID | Date | Depth (ft) | OVM-PID (ppm) | TPH (mg/kg) |
| | | NMOCD ACTION LEVEL | | |
| | | | 100 | 1,000 |
| SB-1 | 8/16/12 | 1 | 21.1 | 175 |
| | | 2 | 19.8 | NA |
| | | 3 | 25.7 | 178 |
| SB-2 | 8/16/12 | 1 | 2.0 | 234 |
| SB-3 | 8/16/12 | 1 | 0.4 | 161 |
| | | 2 | 0.8 | 184 |
| SB-4 | 8/16/12 | 1 | 0.4 | NA |
| | | 2 | 0.8 | 184 |
| | | 3 | 0.5 | NA |
| SB-5 | 8/16/12 | 1 | 0.4 | NA |
| | | 2 | 0.5 | 167 |
| | | 3 | 0.5 | NA |
| SB-6 | 8/16/12 | 1 | 0.6 | NA |
| | | 2 | 0.8 | 153 |
| | | 3.5 | 0.7 | NA |
| SB-7 | 8/16/12 | 1 | 0.3 | NA |
| | | 2 | 0.5 | 147 |
| SB-8 | 8/16/12 | 1 | 0.6 | NA |
| | | 2 | 0.2 | 150 |
| SB-9 | 8/16/12 | 1 | 0.6 | NA |
| | | 1.5 | 0.8 | 147 |
| SB-10 | 8/16/12 | 1 | 26.2 | NA |
| | | 2 | 222 | 153 |
| SB-11 | 8/16/12 | 1 | 92.9 | 184 |
| | | 2 | 37.6 | NA |
| | | 3 | 11.6 | NA |
| SB-12 | 8/16/12 | 1 | 42 | NA |
| | | 1.5 | 153 | 141 |
| | | 1 | 103 | NA |
| SB-13 | 8/16/12 | 2 | 347 | 156 |
| | | 2.5 | 210 | NA |
| | | 1 | 226 | NA |
| SB-14 | 8/16/12 | 2 | 904 | 243 |
| | | 1 | 554 | 375 |
| SB-15 | 8/16/12 | 2 | 325 | NA |
| | | 3 | 477 | 175 |
| SB-16 | 8/16/12 | 0.5 | 0.3 | 181 |
| | | 1 | 0.8 | NA |
| SB-17 | 8/16/12 | 2 | 0.8 | 319 |
| | | 3 | 1.3 | NA |
| SB-18 | 8/16/12 | 1 | 0.4 | 170 |
| SB-19 | 8/16/12 | 1 | 2.7 | NA |
| | | 2 | 0.2 | 240 |
| SB-20 | 8/16/12 | 1 | 1.8 | NA |
| | | 2 | 1.3 | 153 |
| SB-21 | 8/16/12 | 1 | 0.7 | 189 |
| NA - NOT ANALYZED | | | | |

| Laboratory Analytical Results | | | | | |
|---|---------|--------------------|-----------------|--------------|-------------------|
| Sample ID | Date | Depth (ft) | Benzene (mg/kg) | BTEX (mg/kg) | Chlorides (mg/kg) |
| | | NMOCD ACTION LEVEL | | | |
| | | | 10 | 50 | 250 |
| SB-10 | 8/16/12 | 2 | <0.050 | <0.25 | NA |
| SB-12 | 8/16/12 | 1.5 | <0.050 | <0.25 | NA |
| SB-13 | 8/16/12 | 2 | <0.050 | <0.25 | NA |
| SB-14 | 8/16/12 | 2 | <0.050 | <0.25 | NA |
| SB-15 | 8/16/12 | 1 | <0.050 | <0.25 | NA |
| SC-1 | 8/16/12 | 0.5 to 1 | NA | NA | 53 |
| ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 300.0. | | | | | |
| NA - NOT ANALYZED | | | | | |

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS AUGUST 2012

ConocoPhillips
SAN JUAN 32 FEDERAL 12 #1A
SAN JUAN COUNTY, NEW MEXICO
NW¼ SE¼, SECTION 12, T32N, R9W
N36.99587, W107.72581



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
August 20, 2012

REVISIONS BY:
C. Lameman

DATE REVISED:
August 20, 2012

CHECKED BY:
D. Watson

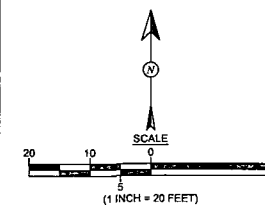
DATE CHECKED:
August 20, 2012

APPROVED BY:
E. McNally

DATE APPROVED:
August 20, 2012

LEGEND

- SAMPLE LOCATIONS
- ===== SECONDARY CONTAINMENT BERM
- x — FENCE



AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: San Juan 32 Federal 12 #1A

Date: 8/16/2012

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

Durango, Colorado
970-405-3274

Matrix: Soil

| Sample ID | Collection Date | Collection Time | OVM (ppm) | Time of Sample Analysis | Field TPH* (mg/kg) | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|-------------|-----------------|-----------------|-----------|-------------------------|--------------------|-----------------|----|-----------------------|
| SB-1 @ 1' | 8/16/2012 | 10:55 | 21.1 | 17:45 | 175 | 40.0 | 1 | KC |
| SB-1 @ 2' | 8/16/2012 | 10:57 | 19.8 | Not Analyzed for TPH | | | | |
| SB-1 @ 3' | 8/16/2012 | 10:59 | 25.7 | 17:49 | 178 | 40.0 | 1 | KC |
| SB-2 @ 1' | 8/16/2012 | 11:03 | 2.0 | 17:52 | 234 | 40.0 | 1 | KC |
| SB-3 @ 1' | 8/16/2012 | 11:07 | 0.4 | 17:56 | 161 | 40.0 | 1 | KC |
| SB-4 @ 1' | 8/16/2012 | 11:10 | 0.4 | Not Analyzed for TPH | | | | |
| SB-4 @ 2' | 8/16/2012 | 11:13 | 0.8 | 18:00 | 184 | 40.0 | 1 | KC |
| SB-5 @ 1' | 8/16/2012 | 11:18 | 0.4 | Not Analyzed for TPH | | | | |
| SB-5 @ 2' | 8/16/2012 | 11:20 | 0.5 | 18:03 | 167 | 40.0 | 1 | KC |
| SB-5 @ 3' | 8/16/2012 | 11:22 | 0.5 | Not Analyzed for TPH | | | | |
| SB-6 @ 1' | 8/16/2012 | 11:23 | 0.6 | Not Analyzed for TPH | | | | |
| SB-6 @ 2' | 8/16/2012 | 11:24 | 0.8 | 18:05 | 153 | 40.0 | 1 | KC |
| SB-6 @ 3.5' | 8/16/2012 | 11:26 | 0.7 | Not Analyzed for TPH | | | | |
| SB-7 @ 1' | 8/16/2012 | 11:28 | 0.3 | Not Analyzed for TPH | | | | |
| SB-7 @ 2' | 8/16/2012 | 11:30 | 0.5 | 18:08 | 147 | 40.0 | 1 | KC |
| SB-8 @ 1' | 8/16/2012 | 11:33 | 0.6 | Not Analyzed for TPH | | | | |
| SB-8 @ 2' | 8/16/2012 | 11:35 | 0.2 | 18:12 | 150 | 40.0 | 1 | KC |
| SB-9 @ 1' | 8/16/2012 | 11:42 | 0.6 | Not Analyzed for TPH | | | | |
| SB-9 @ 1.5' | 8/16/2012 | 11:44 | 0.8 | 18:14 | 147 | 40.0 | 1 | KC |
| SB-10 @ 1' | 8/16/2012 | 11:49 | 26.2 | Not Analyzed for TPH | | | | |
| SB-10 @ 2' | 8/16/2012 | 11:53 | 222 | 18:17 | 153 | 40.0 | 1 | KC |
| SB-11 @ 1' | 8/16/2012 | 11:56 | 92.9 | 18:21 | 184 | 40.0 | 1 | KC |

| Sample ID | Collection Date | Collection Time | OVM (ppm) | Time of Sample Analysis | Field TPH* (mg/kg) | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|--------------|-----------------|-----------------|-----------|-------------------------|--------------------|-----------------|----|-----------------------|
| SB-11 @ 2' | 8/16/2012 | 12:00 | 37.6 | Not Analyzed for TPH | | | | |
| SB-11 @ 3' | 8/16/2012 | 12:03 | 11.6 | Not Analyzed for TPH | | | | |
| SB-12 @ 1' | 8/16/2012 | 12:10 | 42 | Not Analyzed for TPH | | | | |
| SB-12 @ 1.5' | 8/16/2012 | 12:12 | 153 | 18:24 | 141 | 40.0 | 1 | KC |
| SB-13 @ 1' | 8/16/2012 | 12:16 | 103 | Not Analyzed for TPH | | | | |
| SB-13 @ 2' | 8/16/2012 | 12:18 | 347 | 18:26 | 156 | 40.0 | 1 | KC |
| SB-13 @ 2.5' | 8/16/2012 | 12:19 | 210 | Not Analyzed for TPH | | | | |
| SB-14 @ 1' | 8/16/2012 | 12:21 | 226 | Not Analyzed for TPH | | | | |
| SB-14 @ 2' | 8/16/2012 | 12:23 | 904 | 18:29 | 243 | 40.0 | 1 | KC |
| SB-15 @ 1' | 8/16/2012 | 12:55 | 554 | 18:30 | 375 | 40.0 | 1 | KC |
| SB-15 @ 2' | 8/16/2012 | 12:57 | 325 | Not Analyzed for TPH | | | | |
| SB-15 @ 3' | 8/16/2012 | 12:58 | 477 | 18:33 | 175 | 40.0 | 1 | KC |
| SB-16 @ 0.5' | 8/16/2012 | 13:01 | 0.3 | 18:35 | 181 | 40.0 | 1 | KC |
| SB-17 @ 1' | 8/16/2012 | 13:15 | 0.8 | Not Analyzed for TPH | | | | |
| SB-17 @ 2' | 8/16/2012 | 13:17 | 0.8 | 18:37 | 319 | 40.0 | 1 | KC |
| SB-17 @ 3' | 8/16/2012 | 13:19 | 1.3 | Not Analyzed for TPH | | | | |
| SB-18 @ 1' | 8/16/2012 | 13:20 | 0.4 | 18:39 | 170 | 40.0 | 1 | KC |
| SB-19 @ 1' | 8/16/2012 | 13:25 | 2.7 | Not Analyzed for TPH | | | | |
| SB-19 @ 2' | 8/16/2012 | 13:28 | 0.2 | 18:40 | 240 | 40.0 | 1 | KC |
| SB-20 @ 1' | 8/16/2012 | 13:30 | 1.8 | Not Analyzed for TPH | | | | |
| SB-20 @ 2' | 8/16/2012 | 13:32 | 1.3 | 18:42 | 153 | 40.0 | 1 | KC |
| SB-21 @ 1' | 8/16/2012 | 13:50 | 0.7 | 18:45 | 189 | 40.0 | 1 | KC |

Total Petroleum Hydrocarbons - USEPA 418.1

PQL Practical Quantitation Limit
 ND Not Detected at the Reporting Limit
 DF Dilution Factor
 NA Not Analyzed

Analyst:

Kelsey Christman



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

August 20, 2012

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP San Juan 32 Federal 12 #1A

OrderNo.: 1208801

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/18/2012 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1208801

Date Reported: 8/20/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** SB-10@2'**Project:** CoP San Juan 32 Federal 12 #1A**Collection Date:** 8/16/2012 11:53:00 AM**Lab ID:** 1208801-001**Matrix:** MEOH (SOIL)**Received Date:** 8/18/2012 10:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|--------|------|-------|----|-----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 12:57:06 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 12:57:06 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 12:57:06 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/18/2012 12:57:06 PM |
| Surr: 4-Bromofluorobenzene | 98.0 | 80-120 | | %REC | 1 | 8/18/2012 12:57:06 PM |

Qualifiers:

| | |
|-------|---|
| * / X | Value exceeds Maximum Contaminant Level. |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| 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 |
| RL | Reporting Detection Limit |
| U | Samples with CalcVal < MDL |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1208801

Date Reported: 8/20/2012

CLIENT: Animas Environmental Services

Client Sample ID: SB-12@1.5'

Project: CoP San Juan 32 Federal 12 #1A

Collection Date: 8/16/2012 12:12:00 PM

Lab ID: 1208801-002

Matrix: MEOH (SOIL)

Received Date: 8/18/2012 10:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 1:25:49 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 1:25:49 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 1:25:49 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/18/2012 1:25:49 PM |
| Surr: 4-Bromofluorobenzene | 95.7 | 80-120 | | %REC | 1 | 8/18/2012 1:25:49 PM |

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1208801

Date Reported: 8/20/2012

CLIENT: Animas Environmental Services

Client Sample ID: SB-13@2'

Project: CoP San Juan 32 Federal 12 #1A

Collection Date: 8/16/2012 12:18:00 PM

Lab ID: 1208801-003

Matrix: MEOH (SOIL)

Received Date: 8/18/2012 10:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 1:54:32 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 1:54:32 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 1:54:32 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/18/2012 1:54:32 PM |
| Surr: 4-Bromofluorobenzene | 96.9 | 80-120 | | %REC | 1 | 8/18/2012 1:54:32 PM |

Qualifiers:

| | |
|----|---|
| *X | Value exceeds Maximum Contaminant Level. |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| 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 |
| RL | Reporting Detection Limit |
| U | Samples with CalcVal < MDL |

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1208801

Date Reported: 8/20/2012

CLIENT: Animas Environmental Services

Client Sample ID: SB-14@2'

Project: CoP San Juan 32 Federal 12 #1A

Collection Date: 8/16/2012 12:23:00 PM

Lab ID: 1208801-004

Matrix: MEOH (SOIL)

Received Date: 8/18/2012 10:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 2:23:21 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 2:23:21 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 2:23:21 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/18/2012 2:23:21 PM |
| Surr: 4-Bromofluorobenzene | 98.7 | 80-120 | | %REC | 1 | 8/18/2012 2:23:21 PM |

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Analytical Report

Lab Order 1208801

Date Reported: 8/20/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** SB-15@1'**Project:** CoP San Juan 32 Federal 12 #1A**Collection Date:** 8/16/2012 12:55:00 PM**Lab ID:** 1208801-005**Matrix:** MEOH (SOIL)**Received Date:** 8/18/2012 10:30:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|------------------------------------|--------|--------|------|-------|----|----------------------|
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 2:52:12 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 2:52:12 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/18/2012 2:52:12 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/18/2012 2:52:12 PM |
| Surr: 4-Bromofluorobenzene | 96.4 | 80-120 | | %REC | 1 | 8/18/2012 2:52:12 PM |

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208801

20-Aug-12

Client: Animas Environmental Services
Project: CoP San Juan 32 Federal 12 #1A

| | | | | | | | | | | |
|----------------------------|------------------|-------|----------------|------------------|------|-----------|------------------------------------|------|---------------------|------|
| Sample ID | MB-3385 | | SampType: | MBLK | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | PBS | | Batch ID: | 3385 | | RunNo: | 4951 | | | |
| Prep Date: | 8/17/2012 | | Analysis Date: | 8/18/2012 | | SeqNo: | 140000 | | 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 | 1.0 | | 1.000 | | 101 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------------|-------|----------------|------------------|------|-----------|------------------------------------|------|---------------------|------|
| Sample ID | LCS-3385 | | SampType: | LCS | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | LCSS | | Batch ID: | 3385 | | RunNo: | 4951 | | | |
| Prep Date: | 8/17/2012 | | Analysis Date: | 8/18/2012 | | SeqNo: | 140004 | | Units: mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.050 | 1.000 | 0 | 91.1 | 76.3 | 117 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 93.9 | 80 | 120 | | | |
| Ethylbenzene | 0.97 | 0.050 | 1.000 | 0 | 96.9 | 77 | 116 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 97.0 | 76.7 | 117 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 103 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|------------------------|-------|----------------|------------------|------|-----------|------------------------------------|------|---------------------|------|
| Sample ID | 1208727-001A MS | | SampType: | MS | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | BatchQC | | Batch ID: | 3385 | | RunNo: | 4951 | | | |
| Prep Date: | 8/17/2012 | | Analysis Date: | 8/18/2012 | | SeqNo: | 140006 | | Units: mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.95 | 0.048 | 0.9643 | 0 | 98.7 | 67.2 | 113 | | | |
| Toluene | 1.0 | 0.048 | 0.9643 | 0 | 104 | 62.1 | 116 | | | |
| Ethylbenzene | 1.0 | 0.048 | 0.9643 | 0 | 108 | 67.9 | 127 | | | |
| Xylenes, Total | 3.1 | 0.096 | 2.893 | 0 | 109 | 60.6 | 134 | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 0.9643 | | 98.8 | 80 | 120 | | | |

| | | | | | | | | | | |
|----------------------------|-------------------------|-------|----------------|------------------|------|-----------|------------------------------------|-------|---------------------|------|
| Sample ID | 1208727-001A MSD | | SampType: | MSD | | TestCode: | EPA Method 8021B: Volatiles | | | |
| Client ID: | BatchQC | | Batch ID: | 3385 | | RunNo: | 4951 | | | |
| Prep Date: | 8/17/2012 | | Analysis Date: | 8/18/2012 | | SeqNo: | 140007 | | Units: mg/Kg | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.97 | 0.048 | 0.9653 | 0 | 101 | 67.2 | 113 | 2.20 | 14.3 | |
| Toluene | 1.0 | 0.048 | 0.9653 | 0 | 104 | 62.1 | 116 | 0.224 | 15.9 | |
| Ethylbenzene | 1.0 | 0.048 | 0.9653 | 0 | 107 | 67.9 | 127 | 1.24 | 14.4 | |
| Xylenes, Total | 3.1 | 0.097 | 2.896 | 0 | 107 | 60.6 | 134 | 1.34 | 12.6 | |
| Surr: 4-Bromofluorobenzene | 0.98 | | 0.9653 | | 101 | 80 | 120 | 0 | 0 | |

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit



HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

| | | | |
|-------------------|----------------------|-----------------------|-----------------|
| Client Name: | Animas Environmental | Work Order Number: | 1208801 |
| Received by/date: | AT 08/18/12 | | |
| Logged By: | Michelle Garcia | 8/18/2012 10:30:00 AM | Michelle Garcia |
| Completed By: | Michelle Garcia | 8/18/2012 10:51:20 AM | Michelle Garcia |
| Reviewed By: | mg 08/18/12 | | |

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 $>0^{\circ}\text{C}$ 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: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person |
| Regarding: | _____ | | |
| Client Instructions: | _____ | | |

18. Additional remarks:

19. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1 | 1.7 | Good | Yes | | | |

Turn-Around Time:

Client: Anuñas Environmental

☐ Standard ☒ Rush Sameday

Project Name:

Services LLC
Mailing Address: 624 E Comanche

CoP San Juan 32 Federal 12#1A

Farmington NM 87401

Project #:

Phone #: 305 564 2281

Project Manager:

email or Fax#:

QA/QC Package:

D Watson

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

Sampler: T Long

☐ NELAP ☐ Other

On Ice: ☒ Yes ☐ No

☐ EDD (Type)

Sample Temperature 167

[illegible]

| | | |
|------------------|----------------|---------------------------------|
| Date: 8-17-12 | Time: 16:10 | Relinquished by: Thomas Long |
|------------------|----------------|---------------------------------|

| | | |
|-----------------------|---------|------|
| Received by: | Date | Time |
| Christopher J. Keller | 8/17/12 | 1610 |

| | | |
|---------|-------|------------------|
| Date: | Time: | Relinquished by: |
| 8/17/12 | 1701 | Christine Waelen |

Received by: [Signature] Date 08/18/12 Time 103

| | |
|----------|------------------------|
| Remarks: | Bill to ConocoPhillips |
|----------|------------------------|



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible][illegible]



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

August 22, 2012

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: COP San Juan 32 Federal 12 #1A

OrderNo.: 1208876

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/21/2012 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1208876

Date Reported: 8/22/2012

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: COP San Juan 32 Federal 12 #1A

Collection Date: 8/20/2012 9:30:00 AM

Lab ID: 1208876-001

Matrix: SOIL

Received Date: 8/21/2012 10:31:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---------------------------------|--------|----|------|-------|----|-----------------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: SRM |
| Chloride | 53 | 30 | | mg/Kg | 20 | 8/21/2012 12:23:48 PM |

Qualifiers:

- *X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1208876

22-Aug-12

Client: Animas Environmental Services
Project: COP San Juan 32 Federal 12 #1A

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | MB-3423 | SampType: | MBLK | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | PBS | Batch ID: | 3423 | RunNo: | 5004 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141603 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| | | | | | | | | | | |
|------------|-----------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | LCS-3423 | SampType: | LCS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | LCSS | Batch ID: | 3423 | RunNo: | 5004 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141604 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.7 | 90 | 110 | | | |

| | | | | | | | | | | |
|------------|----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | 1208829-008AMS | SampType: | MS | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | BatchQC | Batch ID: | 3423 | RunNo: | 5004 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141627 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 36 | 7.5 | 15.00 | 18.31 | 116 | 64.4 | 117 | | | |

| | | | | | | | | | | |
|------------|-----------------|----------------|-----------|-------------|--------------------------|----------|-----------|------|----------|------|
| Sample ID | 1208829-008AMSD | SampType: | MSD | TestCode: | EPA Method 300.0: Anions | | | | | |
| Client ID: | BatchQC | Batch ID: | 3423 | RunNo: | 5004 | | | | | |
| Prep Date: | 8/21/2012 | Analysis Date: | 8/21/2012 | SeqNo: | 141628 | Units: | mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 31 | 7.5 | 15.00 | 18.31 | 87.4 | 64.4 | 117 | 13.0 | 20 | |

Qualifiers:

* /X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
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TEL: 505-345-3975 FAX: 505-345-4101
Website: www.hallenvironmental.com

Sample Log-In Check List

| | | | |
|-------------------|-----------------------------|-----------------------|--------------------|
| Client Name: | Animas Environmental | Work Order Number: | 1208876 |
| Received by/date: | <i>[Signature]</i> 08/21/12 | | |
| Logged By: | Ashley Gallegos | 8/21/2012 10:31:00 AM | <i>[Signature]</i> |
| Completed By: | Ashley Gallegos | 8/21/2012 10:39:16 AM | <i>[Signature]</i> |
| Reviewed By: | <i>[Signature]</i> 08/21/12 | | |

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: | <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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 | Yes | | | |

Client: Animas Environmental
Services LLC

Mailing Address: 624 F Comanche
Farmington NM 87401

Phone #: 505 564 2281

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

| | | |
|-----------------------------------|--|-----------------|
| <input type="checkbox"/> Standard | <input checked="" type="checkbox"/> Rush | <u>same day</u> |
| Project Name: | | |

CoP San Juan 32 Federal 12 # 1A

| | |
|------------|--|
| Project #: | |
|------------|--|

D. Watson

Sampler: K. Christanson

On Ice ☒ Yes ☐ No

Sample Temperature

| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No |
|---------|------|--------|-------------------|----------------------|-------------------|-----------------|
| 8-20-12 | 0930 | snj | SC-1 | 1-4oz | — | 1268876 —001 |

Analysis Request

[illegible]

| | | | | | |
|---------|-------|--------------------|---------------|----------|------|
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| 8/20/12 | 1722 | Kelany [Signature] | Christa Weets | 8/20/12 | 1722 |
| Date: | Time: | Relinquished by: | Received by: | Date | Time |
| 8/20/12 | 1747 | Christa Weets | [Signature] | 08/21/12 | 10 |

Remarks: Bull to ConocoPhillips

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.