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**

Revised August 8, 2011

Form C-141

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

Release Notification and Corrective Action

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

| | | | | | | OPERATOR ☐ Initial Report ☑ | | | | \square | Final Report | |
|--|--|--|---------------------------------|---|----------------|-----------------------------|--------------------------------|-------------|--------------------------|----------------------------|--------------|-------------|
| | | | | , a Wholly Own | ed (| Contact Lisa Hunter | | | | | | |
| Subsidiary | | | | on, NM 87402 | | Telephone No. 505-326-9786 | | | | | | |
| Facility Nan | | | | 011, INIVI 87402 | | Facility Type Gas Well | | | | | | |
| | | | | | | | | | ADINI | 2002006 | 702 | |
| Surface Ow | ner BLM | | | Mineral Ov | vner E | 3LM | | | API No | . 3003906 | 792 | |
| | | | | | | OF RE | | | | <u> </u> | | |
| Unit Letter N | Section 33 | Township 27N | Range 4W | Feet from the 1090' | | South Line outh | Feet from the 1990' | | est Line est | County Rio A | rriba | ļ |
| | | | La | ntitude36.5256 | 65 | _ Longitud | le107.25784 | | | | | |
| | _ | | | NATI | URE (| OF REL | EASE | | | | | |
| Type of Relea | | | | | | Volume of | Release Water 10.02 BB | | Volume F 0 BBL | Recovered | _ | |
| E. | Conde | nsate | | | | | water 10.02 BB te 11.67 BBL | | O BBL | | | |
| Source of Rel | ease Prod | uction Tank | | | | Date and F Unknow | lour of Occurrenc | | | Hour of Dis 13; 8:45 AM | | |
| Was Immedia | ite Notice (| | Vac T | No □ Not Rec | irad | If YES, To | Whom? Powell - NMOCE |) | | RCVD JU | N6': | 13 |
| , | | | | THO THOURE | , | | y – BLM FFO | , | | OIL CON | 5. DI | V. |
| By Whom? Crystal Tafoya Date and Hour NMOCD – 03-08-2013 @ 12:16 PM BLM FFO - 03-08-2013 @ 12:15 PM USFS - 03-08-2013 @ 12:16 PM | | | | | | | | | | | | |
| Was a Watercourse Reached? ☐ Yes ☒ No ☐ Yes ☒ No | | | | | | | | | | | | |
| If a Watercou N/A | rse was Im | pacted, Descr | ibe Fully. | k | | | | - | | | | |
| Describe Cau Production ta recovered. | | | | n Taken.* on causing the relea | ase of 1 | 0.02 BBLs o | f Produced Water | and 11.6 | 57 BBLs o | of Condensat | e. Zer | o BBLs were |
| soil was tra Excavation | ps will repl nsported terminat | ace the tank a to TNT Lar ed at sandst | nd assess id Farm one, NM | ten.* the soils to determi and 120 c/yds of OCD and USFS ached for review | clean appro | soil was tr | ansported fron | n TNT, a | and plac | ed in the e | xcava | ition site. |
| regulations al public health should their o or the environ | 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: | Ish | -114 | | | | | OIL CON | | () < | DIVISIO | | |
| Printed Name | : Lisa Hu | inter | | • | 1 | Approved by | Environmental S | pecialist: | YON | M V- | KU | <u>y</u> |
| Title: Field | Environm | ental Speciali | st | | | Approval Da | e: 9/24/20 | м3 Е | xplation | Date: | | <i>0</i> |
| E-mail Addre | ss: <u>Lisa.</u> H | unter@cop.co | om | | (| Conditions o | f Approval: | | _ | Attached | | |

Date: June 4, 2013 Phone:
* Attach Additional Sheets If Necessary Phone: 505-326-9786

AES

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

June 3, 2013

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-04
5525 Hwy 64
Farmington, New Mexico 87401

RE: Initial Release Assessment and Final Excavation Report
San Juan 27-4 #27

Rio Arriba County, New Mexico

Dear Ms. Hunter:

On March 12 and May 6, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 27-4 #27, located in Rio Arriba County, New Mexico. The release consisted of approximately 11.7 barrels (bbls) hydrocarbon and 10 bbls produced water from an onsite production tank. The final excavation was completed by contractors prior to AES' arrival to the location on May 6, 2013.

1.0 Site Information

1.1 Location

Location - SE¼ SW¼, Section 33, T27N, R4W, Rio Arriba County, New Mexico Well Head Latitude/Longitude - N36.52589 and W107.25871, respectively Release Location Latitude/Longitude - N36.52579 and W107.25829, respectively Land Jurisdiction - Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection Report dated April 1996 for the San Juan 27-4 #27 reported the depth to groundwater as 110 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. An unnamed wash is located approximately 130 feet east of the location and drains to Jaramillo Canyon. Based on this information, the location was assessed a ranking score of 20 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Assessments

AES was initially contacted by Crystal Tafoya of CoP on March 11, 2013, and on March 12, 2013, Kelsey Christiansen and Corwin Lameman of AES completed the release assessment field work. The assessment included collection and field screening soil of 26 soil samples from 12 soil borings (SB-1 through SB-12). Based on the field screening and laboratory analytical results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On May 6, 2013, AES returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collecting five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. The final excavation was approximately 845 square-feet by 4 to 5 feet in depth. Note that the base of the excavation was terminated on competent sandstone. Sample locations and final excavation extents are shown on Figure 4.

2.0 Soil Sampling

A total of 26 soil samples were collected from 12 soil borings (SB-1 through SB-12) during the initial assessment. Additionally, five 5-point composite soil samples (SC-1 through SC-5) were collected during the final excavation clearance sampling. All soil samples were field screened for volatile organic compounds (VOCs) and selected samples were also analyzed for total petroleum hydrocarbons (TPH). Two of the soil samples collected during the initial assessment (SB-2 and SB-8) and one composite sample (SC-5) collected during the excavation 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 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; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

2.3 Field Screening and Laboratory Analytical Results

On March 12, 2013, initial assessment field screening readings for VOCs via OVM ranged from 0.0 ppm in 11 samples up to 3,224 ppm in SB-7. Field TPH concentrations ranged from less than 20.0 mg/kg in four samples up to greater than 5,000 mg/kg in four samples.

On May 6, 2013, final excavation field screening results for VOCs via OVM showed concentrations ranging from 1.6 ppm in SC-3 to 285 ppm in SC-5. Field TPH concentrations ranged from less than 20.0 mg/kg in SC-1 up to 185 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs and TPH Results
San Juan 27-4 #27 Initial Release Assessment and Final Excavation
March and May 2013

| Sample ID | Date Sampled | Sample Depth (ft bgs) | VOCs via OVM (ppm) | Field TPH (mg/kg) |
|-----------|-----------------|-----------------------------|--|-------------------------|
| NMO | CD Action Lev | el* | 100 | 100 |
| | | Surface | 1,423 | NA |
| SB-1 | 3/12/13 | 1 | 1,730 | NA |
| | - | 1.5 | 1,747 | >5,000 |
| | | Surface | 203 | NA |
| CD 2 | 2/12/12 | 2 | 1,639 | NA |
| SB-2 | 3/12/13 | 4 | 1,575 | NA |
| | • | 5 | Depth (ft bgs) via OVM (ppm) 4 100 Surface 1,423 1 1,730 1.5 1,747 Surface 203 2 1,639 4 1,575 5 1,335 0.5 31.4 0.75 0.0 1 16.9 5 1.2 0.5 0.0 1 0.0 Surface 3,224 0.5 2,204 1 1,831 Surface 2,177 0.5 2,246 Surface 0.0 1.25 0.0 | >5,000 |
| CD 3 | 2/12/12 | 0.5 | 31.4 | 23.9 |
| SB-3 | 3/12/13 | 0.75 | 0.0 | NA |
| CD 4 | 2/12/12 | . 1 | 16.9 | <20.0 |
| SB-4 | 3/12/13 | 5 | 1.2 | NA |
| SB-5 | 3/12/13 | 0.5 | 0.0 | <20.0 |
| CD C | 2/42/42 | 0.5 | 0.0 | <20.0 |
| SB-6 | 3/12/13 | 1 | 0.0 | NA |
| | | Surface | 3,224 | NA |
| SB-7 | 3/12/13 | 0.5 | 2,204 | NA |
| | | 1 | 1,831 | >5,000 |
| CD O | 2/12/12 | Surface | 2,177 | NA |
| SB-8 | 3/12/13 | 0.5 | 2,246 | >5,000 |
| CD O | 2/12/12 | Surface | 0.0 | NA |
| SB-9 | 3/12/13 | 1.25 | 0.0 | <20.0 |
| CD 10 | 2/12/12 | Surface | 0.0 | NA |
| SB-10 | 3/12/13 | 0.5 | 0.0 | NA |
| SB-11 | 3/12/13 | 0.5 | 0.0 | NA |
| CD 42 | 2/12/12 | 0.5 | 0.0 | NA |
| SB-12 | 3/12/13 | 2 | 0.0 | NA |
| SC-1 | 5/6/13 | 1 to 4 | 3.7 | <20.0 |
| | | | | |

| Sample ID | Date Sampled | Sample Depth (ft bgs) | VOCs via OVM (ppm) | Field TPH (mg/kg) |
|-----------|-----------------|-----------------------------|--------------------------|-------------------------|
| NMO | CD Action Lev | el* | 100 | 100 |
| SC-2 | 5/6/13 | 1 to 4 | 1.9 | 25.7 |
| SC-3 | 5/6/13 | 1 to 4 | 1.6 | 29.7 |
| SC-4 | 5/6/13 | 1 to 4 | 18.9 | 45.8 |
| SC-5 | 5/6/13 | 4 to 5 | 285 | 185 |

NA - not analyzed

Laboratory analyses for SB-2 and SB-8 were used to confirm field screening results from the initial assessment. Benzene concentrations were reported below the laboratory detection limits in each sample. Total BTEX concentrations were reported at 312 mg/kg in SB-2 and 131 mg/kg in SB-8. TPH concentrations (as GRO/DRO) were reported at 4,480 mg/kg in SB-2 and 2,590 mg/kg in SB-2.

Laboratory analytical results for SC-5 were used to confirm field screening results during excavation activities. The benzene concentration was reported below the laboratory detection limit of 0.050 mg/kg and total BTEX was reported at 1.2 mg/kg. TPH as GRO/DRO was reported at 172 mg/kg. Results are presented in Table 2 and on Figure 3. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH San Juan 27-4 #27 Initial Release Assessment and Final Excavation March and May 2013

| | | | · arra rrray . | | | |
|-----------|-----------------|-------------------|--------------------|-----------------|----------------|----------------|
| | | Sample | | Total | | |
| Sample ID | Date Sampled | Depth (ft bgs) | Benzene (mg/kg) | BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) |
| NMO | CD Action Le | vel* | 10 | 50 | 1 | 00 |
| SB-2 | 3/12/13 | 5 | <0.047 | 312 | 3,500 | 980 |
| SB-8 | 3/12/13 | 0.5 | <0.048 | 131 | 1,600 | 990 |
| SC-5 | 5/6/13 | 4 to 5 | <0.050 | 1.2 | 42 | 130 |

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

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

3.0 Conclusions and Recommendations

On March 12, 2013, AES conducted an initial assessment of petroleum contaminated soils associated with a release from a production tank at the San Juan 27-4 #27. 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 ranking score of 20. Field screening results above the NMOCD action level of 100 ppm VOCs were reported in SB-1, SB-2, SB-7, and SB-8, with the highest VOC concentration reported in SB-7 with 3,224 ppm. Field screening TPH results above the NMOCD action level of 100 mg/kg were reported in SB-1, SB-2, SB-7, and SB-8, with concentrations exceeding 5,000 mg/kg.

Laboratory analytical results from March 12, 2013, reported benzene concentrations below the NMOCD action level of 10 mg/kg in each of the samples. Total BTEX concentrations exceeded NMOCD action levels of 50 mg/kg in SB-2 (312 mg/kg) and SB-8 (131 mg/kg). TPH concentrations as GRO/DRO were also reported above the NMOCD action level of 100 mg/kg in SB-2 (4,480 mg/kg) and SB-8 (2,590 mg/kg).

On May 6, 2013, a final assessment of the excavation area was completed. Field screening results of the excavation extents showed that VOC and TPH concentrations were below applicable NMOCD action levels for all of the final four walls of the excavation. However, field screening results for the base (SC-5) of the excavation showed VOC and TPH concentrations above applicable NMOCD action levels. Laboratory analytical results for SC-5 (taken from the base of the excavation, which was terminated at sandstone) showed that the total BTEX concentration was reported below the NMOCD action level of 50 mg/kg. However, TPH as GRO/DRO exceeded the NMOCD action level of 100 mg/kg with 172 mg/kg.

Based on the final field screening results of the excavation of petroleum contaminated soils at the San Juan 27-4 #27, VOC and TPH concentrations were below applicable NMOCD action levels for the final four walls of the excavation. However, the base of the excavation (sandstone) exceeded the applicable NMOCD action level for TPH. CoP received verbal approval to backfill the final excavation from Brandon Powell of the NMOCD on May 7, 2013. No further work is recommended for the San Juan 27-4 #27.

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 M. Woods Staff Geologist

Aleather M. Woods

Elizabeth McNally, PE

Elizabeth V MiNdly

Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

Figure 3. Initial Assessment Sample Locations and Results, March 2013

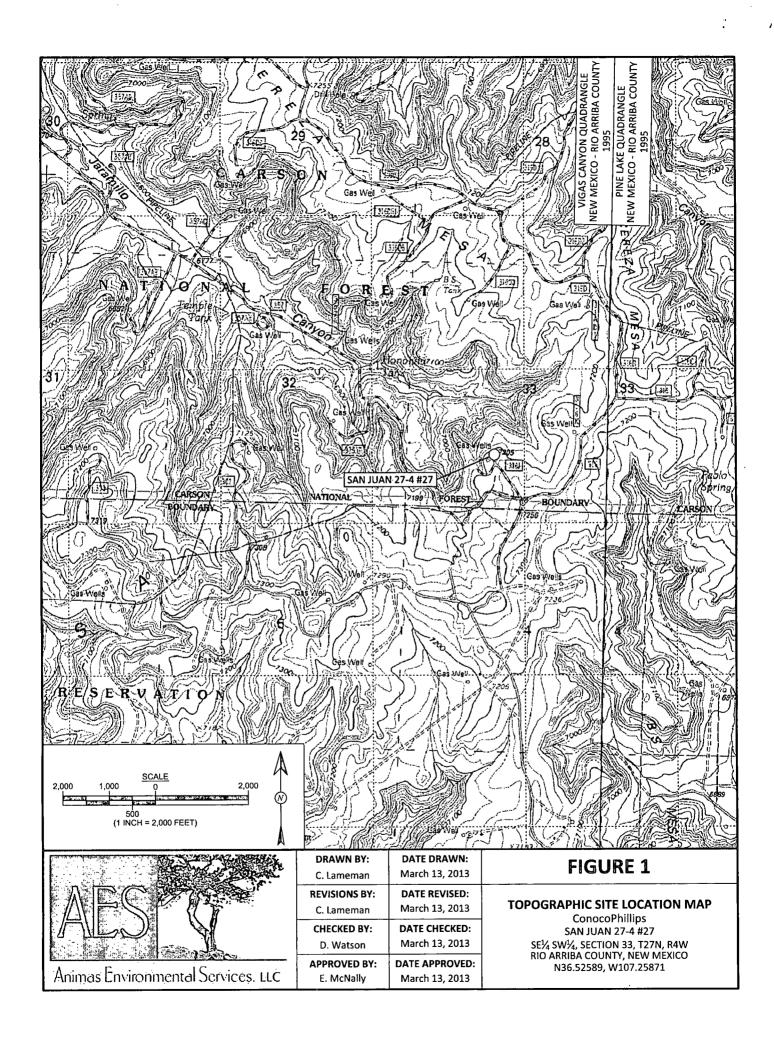
Figure 4. Final Excavation Sample Locations and Results, May 2013

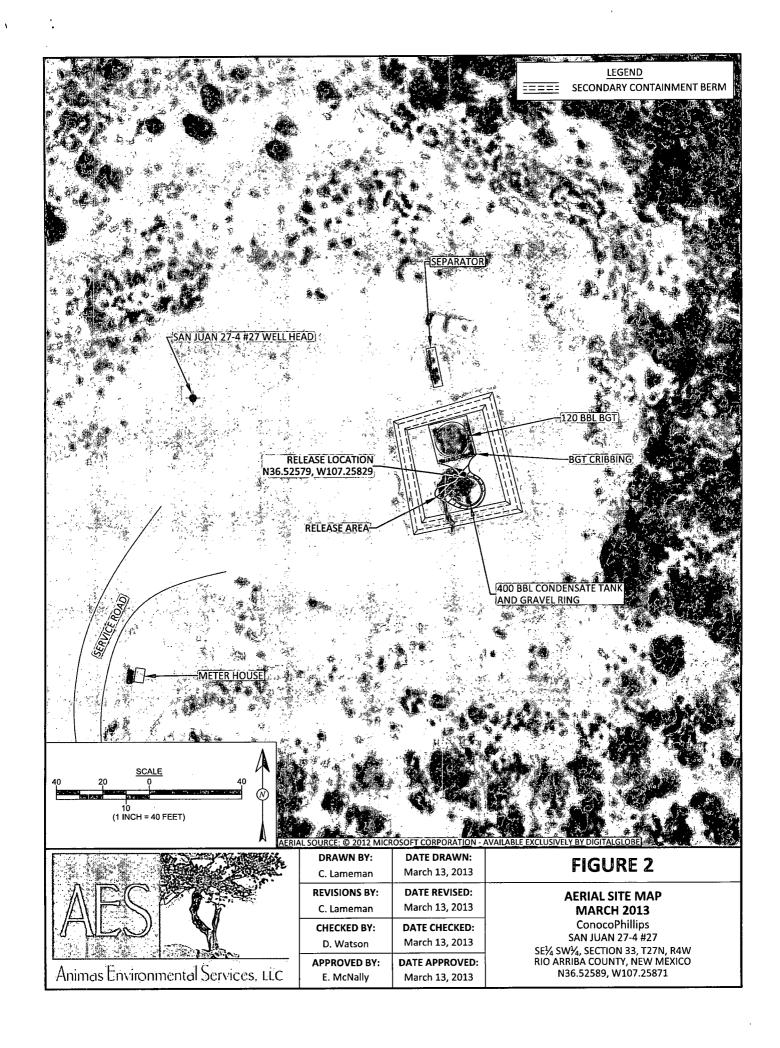
AES Field Screening Report 031213

AES Field Screening Report 050613

Hall Laboratory Analytical Reports 1303592 and 1305211

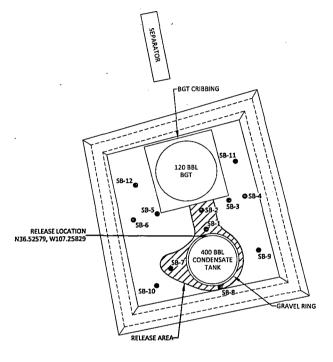
R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 27-4 #27\SJ 27-4 #27 Release and Final Excavation Report 060313.docx





SAN JUAN 27-4 #27 WELL HEAD

| Field Screening Results | | | | | | | | | |
|-------------------------|--------------|---------------|----------------------|----------------|--|--|--|--|--|
| Sample ID | Date | Depth (ft) | OVM- PID (ppm) | TPH (mg/kg) | | | | | |
| N | MOCD ACTI | ON LEVEL | 100 | 100 | | | | | |
| | | Surface | 1,423 | NA | | | | | |
| SB-1 | 3/12/13 | 1 | 1,730 | NA | | | | | |
| | | 1.5 | 1,747 | >5,000 | | | | | |
| | | Surface | 203 | NA | | | | | |
| SB-2 | 3/12/13 | 2 | 1,639 | NA | | | | | |
| 5B-Z | 3/12/13 | 4 | 1,575 | NA | | | | | |
| | | 5 | 1,335 | >5,000 | | | | | |
| cn 2 | 2/12/12 | 0.5 | 31.4 | 23.9 | | | | | |
| SB-3 | 3/12/13 | 0.75 | 0.0 | NA | | | | | |
| | 2/12/12 | 1 | 16.9 | <20.0 | | | | | |
| 58-4 | SB-4 3/12/13 | | 1.2 | NA | | | | | |
| SB-5 | 3/12/13 | 0.5 | 0.0 | <20.0 | | | | | |
| 57.6 | 3/12/13 | 0.5 | 0.0 | <20.0 | | | | | |
| SB-6 | | 1 | 0.0 | NA | | | | | |
| | | Surface | 3,224 | NA | | | | | |
| SB-7 | 3/12/13 | 0.5 | 2,204 | NA | | | | | |
| | - | 1 | 1,831 | >5,000 | | | | | |
| | 24242 | Surface | 2,177 | NA | | | | | |
| SB-8 | 3/12/13 | 0.5 | 2,246 | >5,000 | | | | | |
| | 24242 | Surface | 0.0 | NA | | | | | |
| SB-9 | 3/12/13 | 1.25 | 0.0 | <20.0 | | | | | |
| **** | 2/12/12 | Surface | 0.0 | NA | | | | | |
| \$B-10 | 3/12/13 | 0.5 | 0.0 | NA | | | | | |
| SB-11 | 3/12/13 | 0.5 | 0.0 | NA | | | | | |
| | 2/12/12 | 0.5 | 0.0 | NA | | | | | |
| SB-12 | 3/12/13 | 2 | 0.0 | NA | | | | | |
| NA - NOT ANA | LYZED | | | | | | | | |



| | | Laborator | y Analytical : | Results | | |
|-----------|-----------|---------------|--------------------|--------------------------|-------------------------|-------------------------|
| Sample ID | Date | Depth (ft) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH - GRO (mg/kg) | TPH - DRO (mg/kg) |
| NMOCI | ACTION LE | VEL | 10 | 50 | 1,0 | 100 |
| SB-2 | 3/12/13 | 5 | <0.047 | 312 | 3,500 | 980 |
| SB-8 | 3/12/13 | 0.5 | <0.048 | 131 | 1,600 | 990 |

FIGURE 3

INITIAL ASSESSMENT
SAMPLE LOCATIONS AND RESULTS
MARCH 2013
ConocoPhillips
SAN JUAN 27-4 #27
SEY, SWY4, SECTION 33, T27N, RAW
RIO ARRIBA COUNTY, NEW MEXICO
N36.52589, W107.25871



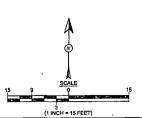
Animas Environmental Services, L.C.

| DRAWN BY: | DATE DRAWN: |
|---------------|----------------|
| C. Lameman | March 13, 2013 |
| REVISIONS BY: | DATE REVISED: |
| C. Lameman | March 13, 2013 |
| CHECKED BY: | DATE CHECKED: |
| D. Watson | March 13, 2013 |
| APPROVED BY: | DATE APPROVED: |
| E. McNally | March 13, 2013 |

LEGEND

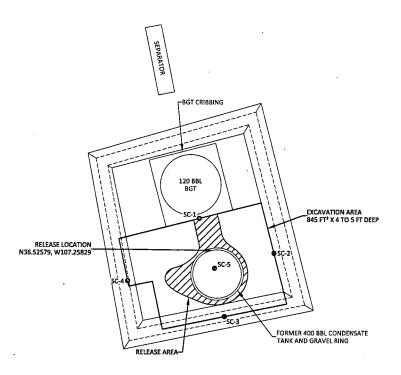
SAMPLE LOCATIONS

SECONDARY CONTAINMENT BERM



SAN JUAN 27-4 #27 WELL HEAD

| Field Screening Results | | | | | | | | | | |
|-------------------------|--------------------------------------|---------------------------|--|--|--|--|--|--|--|--|
| Date | Depth (ft) | OVM- PID (ppm) | TPH (mg/kg) | | | | | | | |
| MOCD ACTION | ON LEVEL | 100 | 100 | | | | | | | |
| 5/6/13 | 1 to 4 | 3.7 | <20.0 | | | | | | | |
| 5/6/13 | 1 to 4 | 1.9 | 25.7 | | | | | | | |
| 5/6/13 | 1 to 4 | 1.6 | 29.7 | | | | | | | |
| 5/6/13 | 1 to 4 | 18.9 | 45.8 | | | | | | | |
| 5/6/13 | 4 to 5 | 285 | 185 | | | | | | | |
| | 5/6/13 5/6/13 5/6/13 5/6/13 | MOCD ACTION LEVEL 5/6/13 | Date Depth (ft) PID (ppm) MOCD ACTION LEVEL 100 5/6/13 1 to 4 3.7 5/6/13 1 to 4 1.9 5/6/13 1 to 4 1.6 5/6/13 1 to 4 18.9 | | | | | | | |



| | | Laborator | y Analytical . | Results | | |
|-----------|-----------|---------------|--------------------|--------------------------|-------------------------|-------------------------|
| Sample ID | Date | Depth (ft) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH - GRO (mg/kg) | TPH - DRO (mg/kg) |
| NMOCL | ACTION LE | VEL | 10 | 50 | 1 | 00 |
| SC-5 | 5/6/13 | 4 to 5 | < 0.050 | 1.2 | 42 | 130 |

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS MAY 2013 ConocoPhillips SAN JUAN 27-4 #27 SE½, SW¼, SECTION 33, T27N, R4W RIO ARRIBA COUNTY, NEW MEXICO N36.52589, W107.25871



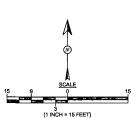
Animas Environmental Services, u.c.

| DRAWN BY: | DATE DRAWN: |
|---------------|----------------|
| C. Lameman | May 7, 2013 |
| REVISIONS BY: | DATE REVISED: |
| C. Lameman | May 7, 2013 |
| CHECKED BY: | DATE CHECKED: |
| D. Watson | May 7, 2013 |
| APPROVED BY: | DATE APPROVED: |
| E. McNally | May 7, 2013 |

LEGEND

SAMPLE LOCATIONS

SECONDARY CONTAINMENT BERM



AES Field Screening Report

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Client: ConocoPhillips

Project Location: San Juan 27-4 #27

Date: 3/12/2013

Matrix: Soil

| F | Matrix: | | | | | <u> </u> | Τ | |
|-----------------|--------------------|--------------------|--------------|-------------------------------|-----------------------|--------------------|-----|--------------------------|
| 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 @ Surface | 3/12/2013 | 10:40 | 1,423 | | Not A | nalyzed for | трн | |
| SB-1 @ 1' | 3/12/2013 | 10:43 | 1,730 | | Not A | nalyzed for | ТРН | |
| SB-1 @ 1.5' | 3/12/2013 | 10:46 | 1,747 | 13:18 | >5,000 | 40.0 | 1 | CL |
| SB-2 @ Surface | 3/12/2013 | 10:50 | 203 | | Not A | nalyzed for | ТРН | |
| SB-2 @ 2' | 3/12/2013 | 10:55 | 1,639 | | Not A | nalyzed for | TPH | |
| SB-2 @ 4' | 3/12/2013 | 10:57 | 1,575 | | Not A | nalyzed for | ТРН | |
| SB-2 @ 5' | 3/12/2013 | 11:00 | 1,335 | 13:22 | >5,000 | 40.0 | 1 | CL |
| SB-3 @ 0.5' | 3/12/2013 | 11:01 | 31.4 | 12:25 | 23.9 | 20.0 | 1 | CL |
| SB-3 @ 0.75' | 3/12/2013 | 11:02 | 0.0 | Not Analyzed for TPH | | | | |
| SB-4 @ 1' | 3/12/2013 | 11:07 | 16.9 | 12:29 | <20.0 | 20.0 | 1 | CL |
| SB-4 @ 5' | 3/12/2013 | 11:13 | 1.2 | | Not A | analyzed for | ТРН | |
| SB-5 @ 0.5' | 3/12/2013 | 11:20 | 0.0 | 12:32 | <20.0 | 20.0 | 1 | CL |
| SB-6 @ 0.5' | 3/12/2013 | 11:24 | 0.0 | 12:35 | <20.0 | 20.0 | 1 | CL |
| SB-6 @ 1' | 3/12/2013 | 11:29 | 0.0 | | Not A | Analyzed for | ТРН | |
| SB-7 @ Surface | 3/12/2013 | 11:35 | 3,224 | | Not A | analyzed for | ТРН | |
| SB-7 @ 0.5' | 3/12/2013 | 11:38 | 2,204 | | Not A | nalyzed for | ТРН | |
| SB-7 @ 1' | 3/12/2013 | 11:42 | 1,831 | 14:05 | >5,000 | 40.0 | 1 | CL |
| SB-8 @ Surface | 3/12/2013 | 11:48 | 2,177 | | Not A | analyzed for | ТРН | · |
| SB-8 @ 0.5' | 3/12/2013 | 11:57 | 2,246 | 14:08 | >5,000 | 40.0 | 1 | CL |
| SB-9 @ Surface | 3/12/2013 | 12:01 | 0.0 | | Not A | analyzed for | ТРН | · |
| SB-9 @ 1.25' | 3/12/2013 | 12:10 | 0.0 | 13:56 | <20.0 | 20.0 | 1 | CL |
| SB-10 @ Surface | 3/12/2013 | 12:14 | 0.0 | | Not A | Analyzed for | ТРН | |

San Juan 27-4 #27

| 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-10 @ 0.5' | 3/12/2013 | 12:17 | 0.0 | Not Analyzed for TPH | | | | | |
| SB-11 @ 0.5' | 3/12/2013 | 12:21 | 0.0 | Not Analyzed for TPH | | | | | |
| SB-12 @ 0.5' | 3/12/2013 | 12:28 | 0.0 | Not Analyzed for TPH | | | | | |
| SB-12 @ 2' | 3/12/2013 | 12:35 | 0.0 | Not Analyzed for TPH | | | | | |

Analyst:

Total Petroleum Hydrocarbons - USEPA 418.1

PQL

Practical Quantitation Limit

ND

Not Detected at the Reporting Limit

DF

Dilution Factor

NA

Not Analyzed

San Juan 27-4 #27

Page 2

Report Finalized: 03/12/13

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 27-4 #27

Date: 5/6/2013

Matrix: Soil



Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

| Sample ID | Collection Date | Time of Sample Collection | Sample Location | OVM (ppm) | Field TPH Analysis Time | Field TPH* (mg/kg) | TPH PQL (mg/kg) | DF | TPH Analysts Initials |
|-----------|--------------------|---------------------------------|--------------------|------------------|-------------------------------|-----------------------|--------------------|----|-----------------------------|
| SC-1 | 5/6/2013 | 10:08 | North Wall | 3.7 | 10:46 | <20.0 | 20.0 | 1 | HMW |
| SC-2 | 5/6/2013 | 10:10 | East Wall | 1.9 | 10:51 | 25.7 | 20.0 | 1 | HMW |
| SC-3 | 5/6/2013 | 10:12 | South Wall | 1.6 | 10:48 | 29.7 | 20.0 | 1 | HMW |
| SC-4 | 5/6/2013 | 10:14 | West Wall | 18.9 | 10:53 | 45.8 | 20.0 | 1 | HMW |
| SC-5 | 5/6/2013 | 10:16 | Base | 285 [.] | 10:55 | 185 | 20.0 | 1 | HMW |

PQL

Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

ND

Not Detected at the Reporting Limit

NΑ

Not Analyzed

DF

Dilution Factor

Dr Dilution Fac

Analyst:

yst: Heather M Woods

*Field TPH concentrations recorded may be below PQL.



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

March 22, 2013

Debbie Watson

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

FAX

RE: COP San Juan 27-4 #27

OrderNo.: 1303592

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/14/2013 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1303592

Date Reported: 3/22/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: COP San Juan 27-4 #27

Lab ID: 1303592-001

Client Sample ID: SB-2@5'

Collection Date: 3/12/2013 11:00:00 AM

Received Date: 3/14/2013 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|-------------------------------|------------|----------|------|-------|-----|-----------------------|
| EPA METHOD 8015B: DIESEL RANG | E ORGANICS | | | | - | Analyst: MMD |
| Diesel Range Organics (DRO) | 980 | 10 | | mg/Kg | 1 | 3/21/2013 10:56:37 AM |
| Surr: DNOP | 127 | 72.4-120 | S | %REC | 1 | 3/21/2013 10:56:37 AM |
| EPA METHOD 8015B: GASOLINE RA | NGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 3500 | 470 | | mg/Kg | 100 | 3/18/2013 4:25:01 PM |
| Surr: BFB | 190 | 84-116 | S | %REC | 100 | 3/18/2013 4:25:01 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene . | ND | 0.047 | | mg/Kg | 1 | 3/17/2013 5:40:02 AM |
| Toluene | 49 | 4.7 | | mg/Kg | 100 | 3/18/2013 4:25:01 PM |
| Ethylbenzene | 23 | 4.7 | | mg/Kg | 100 | 3/18/2013 4:25:01 PM |
| Xylenes, Total | 240 | 9.4 | | mg/Kg | 100 | 3/18/2013 4:25:01 PM |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %REC | 100 | 3/18/2013 4:25:01 PM |

Matrix: SOIL

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1303592

Date Reported: 3/22/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Project: COP San Juan 27-4 #27

Lab ID: 1303592-002

Matrix: SOIL

Client Sample 1D: SB-8@0.5 Collection Date: 3/12/2013 11:51:00 AM

Received Date: 3/14/2013 10:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|-------------------------------|-------------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015B: DIESEL RANG | GE ORGANICS | | | | | Analyst: MMD |
| Diesel Range Organics (DRO) | 990 | 10 | | mg/Kg | 1 | 3/21/2013 11:23:48 AM |
| Surr: DNOP | 132 | 72.4-120 | S | %REC | 1 | 3/21/2013 11:23:48 AM |
| EPA METHOD 8015B: GASOLINE R | ANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 1600 | 240 | | mg/Kg | 50 | 3/18/2013 4:53:39 PM |
| Surr: BFB | 203 | 84-116 | s | %REC | 50 | 3/18/2013 4:53:39 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.048 | | mg/Kg | 1 | 3/17/2013 6:10:14 AM |
| Toluene | 11 | 2.4 | | mg/Kg | 50 | 3/18/2013 4:53:39 PM |
| Ethylbenzene | 9.8 | 2.4 | | mg/Kg | 50 | 3/18/2013 4:53:39 PM |
| Xylenes, Total | 110 | 4.8 | | mg/Kg | 50 | 3/18/2013 4:53:39 PM |
| Surr: 4-Bromofluorobenzene | 109 | 80-120 | | %REC | 50 | 3/18/2013 4:53:39 PM |

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303592

22-Mar-13

Client:

Animas Environmental Services

| Project: COP S | San Juan 27-4 #27 | |
|-----------------------------|--------------------------|--|
| Sample ID MB-6574 | SampType: MBLK | TestCode: EPA Method 8015B: Diesel Range Organics |
| Client ID: PBS | Batch ID: 6574 | RunNo: 9285 |
| Prep Date: 3/20/2013 | Analysis Date: 3/20/2013 | SeqNo: 264882 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 | 11 10.00 | 113 72.4 120 |
| Sample ID LCS-6574 | SampType: LCS | TestCode: EPA Method 8015B: Diesel Range Organics |
| Client ID: LCSS | Batch ID: 6574 | RunNo: 9285 |
| Prep Date: 3/20/2013 | Analysis Date: 3/20/2013 | SeqNo: 264883 Units: mg/Kg |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Diesel Range Organics (DRO) | 48 10 50.00 | 0 96.4 47.4 122 |
| Surr: DNOP | 5.3 5.000 | 106 72.4 120 |
| Sample ID MB-6604 | SampType: MBLK | TestCode: EPA Method 8015B: Diesel Range Organics |
| Client ID: PBS | Batch ID: 6604 | RunNo: 9311 |
| Prep Date: 3/21/2013 | Analysis Date: 3/21/2013 | SeqNo: 265889 Units: %REC |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP | 12 10.00 | 122 72.4 120 S |
| Sample ID LCS-6604 | SampType: LCS | TestCode: EPA Method 8015B: Diesel Range Organics |
| Client ID: LCSS | Batch ID: 6604 | RunNo: 9311 |
| Prep Date: 3/21/2013 | Analysis Date: 3/21/2013 | SeqNo: 265890 Units: %REC |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Surr: DNOP | 5.0 5.000 | 101 72.4 120 |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1303592

22-Mar-13

| Client: Project: | | Environment Juan 27-4 # | | rvices | | | | | | | |
|--------------------------------|-----------------|----------------------------|-----------------|-------------|-------------|-----------|-----------|-------------|-------|----------|------|
| Sample ID | MB-6486 | SampTyj | oe: M | BLK | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
| Client ID: | PBS | Batch I | D: 6 4 | 486 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/14/2013 | Analysis Da | ie: 3 | 3/16/2013 | | SeqNo: 2 | 262878 | Units: %RE | c | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bron | nofluorobenzene | 0.98 | | 1.000 | | 98.1 | 80 | 120 | | | |
| Sample ID | LCS-6486 | SampTyj | oe:. L e | cs | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
| Client ID: | LCSS | Batch I | D: 6 4 | 486 | F | RunNo: \$ | 235 | | | | |
| Prep Date: | 3/14/2013 | Analysis Da | te: 3 | 3/16/2013 | 5 | SeqNo: 2 | 262879 | Units: %RE | c | • | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bron | nofluorobenzene | 1.0 | | 1.000 | | 102 | . 80 | 120 | | | |
| Sample ID | 1303551-021AMS | SampTy | oe: M | s | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
| Client ID: | BatchQC | Batch I | D: 6 4 | 486 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/14/2013 | Analysis Da | te: 3 | 3/16/2013 | (| SeqNo: 2 | 262882 | Units: %RE | C | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bron | nofluorobenzene | 0.97 | | 0.9434 | | 103 | 80 | . 120 | | | |
| Sample ID | 1303551-021AMSI | D SampTy | e: M | SD | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
| Client ID: | BatchQC | Batch I | D: 6 4 | 486 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/14/2013 | Analysis Dat | e: 3 | 3/16/2013 | 5 | SeqNo: 2 | 262883 | Units: %RE | C | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bror | nofluorobenzene | 0.96 | | 0.9425 | | 102 | 80 | 120 | 0 | 0 | |
| Sample ID | MB-6496 | SampTy | oe: M | BLK | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
| Client ID: | PBS | Batch I | D: 6 4 | 1 96 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/15/2013 | Analysis Dat | :e: 3 | 3/17/2013 | 5 | SeqNo: 2 | 262892 | Units: mg/F | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | | 0.050 | | • | | | | | | |
| Toluene | | | 0.050 | | | | | | | | |
| Ethylbenzene Xylenes, Total | | ND ND | 0.050 0.10 | | | | | | | | |
| - | nofluorobenzene | 0.99 | 0.10 | 1.000 | | 98.8 | 80 | 120 | | | |
| Sample ID | LCS-6496 | SampTy | oe: Le | cs | Tes | tCode: F | PA Method | 8021B: Vola | tiles | | |
| Client ID: | | Batch I | | | | RunNo: 9 | | | | | |
| Prep Date: | | Analysis Dat | | | | SeqNo: 2 | | Units: mg/k | (g · | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | | 0.91 | 0.050 | 1.000 | 0 | 91.4 | 80 | 120 | | | |
| | | 0.05 | 0.050 | 4 000 | • | 04.7 | | | | | |

Qualifiers:

Toluene

* Value exceeds Maximum Contaminant Level.

0.95

0.050

1.000

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

120

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

94.7

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1303592

22-Mar-13

Client:

Animas Environmental Services

| Client: Project: | | Invironmenta Juan 27-4 #2 | | vices | | | | | | | |
|------------------|------------------|------------------------------|----------------|-----------|---------------|-----------|-----------|-------------|------------|----------|------|
| Sample ID | MB-6486 | SampTyp | e: ME | BLK | Tes | tCode: El | PA Method | 8015B: Gaso | oline Rang | e | |
| Client ID: | PBS | Batch II | D: 64 8 | 86 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/14/2013 | Analysis Date | e: 3 / | 16/2013 | 5 | SeqNo: 2 | 62753 | Units: %RE | c | | |
| Analyte | | Result I | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | | 900 | | 1000 | | 90.0 | 84 | 116 | | | |
| Sample ID | LCS-6486 | SampTyp | e: LC | S | Tes | tCode: E | PA Method | 8015B: Gaso | oline Rang | e | |
| Client ID: | LCSS | Batch II | D: 64 8 | 86 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/14/2013 | Analysis Date | e: 3/ | 16/2013 | \$ | SeqNo: 2 | 62755 | Units: %RE | c | | |
| Analyte | | Result I | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | | 940 | | 1000 | | 93.5 | 84 | 116 | | | |
| Sample ID | 1303551-022AMS | SampTyp | e: MS | S | Tes | tCode: E | PA Method | 8015B: Gaso | oline Rang | e | |
| Client ID: | BatchQC | Batch II | D: 64 8 | 86 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/14/2013 | Analysis Date | e: 3/ | 16/2013 | (| SeqNo: 2 | 62759 | Units: %RE | :C | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | | 920 | | 959.7 | • | 96.3 | 84 | 116 | | | |
| Sample ID | 1303551-022AMSI | D SampTyp | e: MS | SD | Tes | tCode: E | PA Method | 8015B: Gaso | oline Rang | e | |
| Client ID: | BatchQC | . Batch li | D: 64 | 86 | · · · F | RunNo: 9 | 235 | | | • | |
| Prep Date: | 3/14/2013 | Analysis Dat | e: 3/ | 16/2013 | \$ | SeqNo: 2 | 62760 | Units: %RE | C | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | | 910 | | 960.6 | | 95.1 | 84 | 116 | 0 | 0 | |
| Sample ID | MB-6496 | SampTyp | e: ME | BLK | Tes | tCode: E | PA Method | 8015B: Gase | oline Rang | e | |
| Client ID: | PBS | Batch II | D: 64 | 96 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/15/2013 | Analysis Dat | e: 3/ | 17/2013 | 5 | SeqNo: 2 | 62840 | Units: mg/l | ∢ g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| • | e Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | | 920 | | 1000 | - | 91.7 | 84 | 116 | | | |
| Sample ID | LCS-6496 | SampTyp | e: LC | s | Tes | stCode: E | PA Method | 8015B: Gase | oline Rang | е | |
| Client ID: | LCSS | Batch II | D: 64 | 96 | F | RunNo: 9 | 235 | | | | |
| Prep Date: | 3/15/2013 | Analysis Dat | ie: 3 / | 17/2013 | : | SeqNo: 2 | 262848 | Units: mg/l | Kg | • | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 112 | 62.6 | 136 | | | |

Qualifiers:

Surr: BFB

* Value exceeds Maximum Contaminant Level.

950

1000

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

84

116

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

95.2

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1303592

22-Mar-13

Client:

Animas Environmental Services

Project:

COP San Juan 27-4 #27

| Sample ID LCS-6496 | Samp ⁻ | SampType: LCS | | | TestCode: EPA Method 8021B: Volatiles | | | | | | |
|--|-----------------------|---------------|-----------|-------------|---------------------------------------|--------------|-----------|------|----------|------|--|
| Client ID: LCSS | Batch ID: 6496 | | | F | RunNo: 9 | 235 | | | | | |
| rep Date: 3/15/2013 Analysis Date: 3/17/2013 | | | 8 | SeqNo: 2 | 62893 | Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Ethylbenzene | 0.96 | 0.050 | 1.000 | 0 | 95.7 | 80 | 120 | | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 100 | 80 | 120 | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 103 | 80 | 120 | | | | |

| Sample ID 1303582-001AM | S Samp | Type: MS | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------|---------------|-----------------|---------------------------------------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: BatchQC | Bato | th ID: 64 | 96 | RunNo: 9235 | | | | | | |
| Prep Date: 3/15/2013 | Analysis I | Date: 3/ | 17/2013 | . 8 | SeqNo: 2 | 62895 | Units: mg/F | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.81 | 0.048 | 0.9542 | 0 | 84.5 | 67.2 | 113 | | | |
| Toluene | 0.84 | 0.048 | 0.9542 | 0 | 88.3 | 62.1 | 116 | | | |
| Ethylbenzene | 0.86 | 0.048 | 0.9542 | 0 | 89.8 | 67.9 | 127 | | | |
| Xylenes, Total | 2.7 | 0.095 | 2.863 | 0 | 94.4 | 60.6 | 134 | , | | |
| Surr: 4-Bromofluorobenzene | 0.96 | | . 0.9542 | | 101 | 80 | 120 | | | |

| Sample ID 1303582-001AMS | D SampT | ype: MS | SD. | Tes | tCode: E | PA Method | 8021B: Vola | tiles | | |
|----------------------------|----------------|-------------------|-----------|-------------|----------|-----------|-------------|-------|----------|------|
| Client ID: BatchQC | Batch | n ID: 64 9 | 96 | F | RunŅo: 9 | 235 | | | | |
| Prep Date: 3/15/2013 | Analysis D | ate: 3/ | 17/2013 | 8 | SeqNo: 2 | 62896 | Units: mg/K | ζg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.048 | 0.9579 | 0 | 92.7 | 67.2 | 113 | 9.61 | 14.3 | X 2 |
| Toluene | 0.92 | 0.048 | 0.9579 | 0 | 96.4 | 62.1 | 116 | 9.19 | 15.9 | |
| Ethylbenzene | 0.93 | 0.048 | 0.9579 | 0 | 97.5 | 67.9 | 127 | 8.64 | 14.4 | |
| Xylenes, Total | 2.9 | 0.096 | 2.874 | 0 | 103 | 60.6 | 134 | 8.71 | 12.6 | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 0.9579 | | 101 | 80 | 120 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 6 of 6



Hatt Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

Website: www.hallenvironmental.con

Sample Log-In Check List

| Client Name: Animas Environmental W | /ork Order Number: 1303592 |
|---|---|
| Received by/date: MG 03/14/13 | <u> </u> |
| Logged By: Lindsay Mangin 3/14/2013 10:00:00 AM | July Allings |
| Completed By: Lindsay Mangin 3/15/2013 9:10,41 AM | July My Co |
| Reviewed By: 03 5 13 | |
| 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 |
| <u>Log In</u> | • |
| 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 □ |
| 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 ☐ # of preserved bottles checked for pH: |
| 14. Are matrices correctly identified on Chain of Custody? | Yes ☑ No ☐ (<2 or >12 unless noted) |
| 15. Is it clear what analyses were requested? | Yes ✓ No ☐ Adjusted? |
| 16. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ✓ No ☐ |
| Special Handling (if applicable) | Checked by: |
| 17. Was client notified of all discrepancies with this order? | Yes No No NA 🗹 |
| Person Notified: Date: By Whom: Via: [Regarding: | eMail Phone Fax In Person |
| Client Instructions: | In a mark relation and a system of relation in a mark of the state of |
| 18; Additional remarks: | • • |
| 19. Cooler Information Cooler No. Temp °C Condition Seal Intact Seal No. 5 1 1.0 Good Yes | Seal Date Signed By |

| Chain-of-Custody Record | Turn-Around Time: | LI LI HALL ENVIRONMENTAL |
|---|--|---|
| Client: Animas Environmental | ⊠ Standard □ Rush Project Name: | ANALYSIS LABORATORY |
| Somices | | www.hallenvironmental.com |
| Mailing Address: 624 E Comarche Farmington NM 07481 | Cot SanJuan 27-4 #27 | 4901 Hawkins NE - Albuquerque, NM 87109 |
| Farmington NM 07401 | Project #: | Tel. 505-345-3975 Fax 505-345-4107 |
| Phone #: 505-564-2281 | · · | Analysis Request |
| email or Fax#: | Project Manager: | 21) only) only) SO ₄) SSO ₄) |
| QA/QC Package: | | 021 021 |
| Standard | D Watson | PH (Gas only) (Gas/Diesel)))) 02,PO4,SO4) |
| Accreditation | Sampler: KC / CL | + TPH (Gas onl + TPH (Gas onl 015B (Gas/Dies, 118.1) 504.1) 504.1) 503,NO ₂ ,PO ₄ ,SO 5 / 8082 PCB's 5 / 8082 PCB's |
| □ NELAP □ Other | Ontice : Carries : Ala. No. | E + TPH 8015B (8015B (504.1) PAH) Ills NO ₃ ,NC OA) |
| □ EDD (Type) | Sample it emperature 1. 1/ 0 | A) A) BE BE BE BE BE BE BE B |
| | Container Preservative | BTEX + MTBE + TPH (Gas only) BTEX + MTBE + TPH (Gas only) TPH (Method 8015B (Gas/Diesel) TPH (Method 504.1) EDB (Method 504.1) 8310 (PNA or PAH) RCRA 8 Metals Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) |
| Date Time Matrix Sample Request ID | Container Preservative HEAL NO. | |
| | 1203592 | BTEX + BTEX + TPH (IV EDB (IV EDB (IV EDB (IV EDB (IV EDB EDB (IV EDB |
| 3-12-10100 Seil SB-2 e 5' | 400 jarslan001 | x x |
| 3-12-13 1151 Soil SB-8 @ 0.5 | 4002 | |
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| | | |
| | | |
| Date: Time: Relinguished by | Received by: Date Time | Remarks: Bill to Canoco Phillips |
| 3/2/17/9 Kles //han | Mrister Waller 3/13/12 1719 | 1 |
| Male: Time: Relinquished by: | //Received him | Activity: Ordered by Crystal Activity: |
| 3/13/13 1748 Christin Walt | Mille & 13/11/13 10:00 | Activity: Ordered by Crystal Activity: Area: 25 Tafaya Supervisor: Freedy Proctor User: MKSPENC |
| If necessary, semples submitted to Hall Environmental may be su | bcontracted to other accredited aboratories. This serves as notice of this | s possibility. Any sub-contracted data will be clearly notated on the analytical report, |



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 08, 2013

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

FAX:

RE: CoP San Juan 27-4 #27

OrderNo.: 1305211

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/7/2013 for the analyses presented in the following report.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1305211

Date Reported: 5/8/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

CoP San Juan 27-4 #27

Collection Date: 5/6/2013 10:16:00 AM

Client Sample ID: SC-5

Lab ID: 1305211-001

Project:

Matrix: MEOH (SOIL) Received Date: 5/7/2013 9:45:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|-------------------------------|-------------|--------|------|-------|----------|----------------------|
| EPA METHOD 8015D: DIESEL RANG | GE ORGANICS | | | | <u> </u> | Analyst: GSA |
| Diesel Range Organics (DRO) | 130 | 10 | | mg/Kg | . 1 | 5/7/2013 11:54:41 AM |
| Surr: DNOP | 101 | 63-147 | | %REC | 1 | 5/7/2013 11:54:41 AM |
| EPA METHOD 8015D: GASOLINE R. | ANGE | | | | | Analyst: NSB |
| Gasoline Range Organics (GRO) | 42 | 5.0 | | mg/Kg | 1 | 5/7/2013 12:29:02 PM |
| Surr: BFB | 404 | 80-120 | s | %REC | 1 | 5/7/2013 12:29:02 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: NSB |
| Benzene | ND | 0.050 | | mg/Kg | 1 | 5/7/2013 12:29:02 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 5/7/2013 12:29:02 PM |
| Ethylbenzene | 0.098 | 0.050 | | mg/Kg | 1 | 5/7/2013 12:29:02 PM |
| Xylenes, Total | 1.1 | 0.10 | | mg/Kg | 1 | 5/7/2013 12:29:02 PM |
| Surr: 4-Bromofluorobenzene | 117 | 80-120 | | %REC | 1 | 5/7/2013 12:29:02 PM |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RLReporting Detection Limit

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits 1 of 5 \mathbf{S}

Client:

Hall Environmental Analysis Laboratory, Inc.

Animas Environmental

WO#: 1305211

08-May-13

Project: CoP San Juan 27-4 #27 Sample ID: MB-7278 TestCode: EPA Method 8015D: Diesel Range Organics SampType: MBLK Client ID: PBS Batch ID: 7278 RunNo: 10338 Prep Date: 5/3/2013 Analysis Date: 5/6/2013 SeqNo: 294806 Units: %REC %RPD Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Surr: DNOP 9.8 Sample ID: MB-7280 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics Client ID: PBS Batch ID: 7280 RunNo: 10338 Prep Date: 5/3/2013 Analysis Date: 5/6/2013 SeqNo: 294807 Units: %REC SPK value SPK Ref Val %REC **RPDLimit** %RPD Qual Analyte Result **PQL** LowLimit HighLimit Surr: DNOP 9.8 10.00 98.3 63 147 Sample ID: LCS-7278 TestCode: EPA Method 8015D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 7278 RunNo: 10338 Prep Date: 5/3/2013 Analysis Date: 5/6/2013 SeqNo: 294808 Units: %REC SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result PQL Surr: DNOP 5.4 5.000 107 63 147 Sample ID: LCS-7280 TestCode: EPA Method 8015D: Diesel Range Organics SampType: LCS Client ID: **LCSS** Batch ID: 7280 RunNo: 10338 Prep Date: 5/3/2013 Analysis Date: 5/6/2013 SeqNo: 294809 Units: %REC SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit 147 Surr: DNOP 4.7 5.000 94.6 63 Sample ID: 1305072-004AMS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: **BatchQC** Batch ID: 7278 RunNo: 10338 Units: %REC Prep Date: Analysis Date: 5/6/2013 SeqNo: 294868 5/3/2013

| Sample ID: 1305072-012AMS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics | | | | | | | | | | |
|--|--------------|----------------|-----------|-------------|-----------|----------|------------|------|----------|------|
| Client ID: BatchQC | Batch I | D: 728 | 0 | R | RunNo: 10 | 0338 | | | | |
| Prep Date: 5/3/2013 | Analysis Dat | te: 5/7 | //2013 | S | SeqNo: 29 | 94869 | Units: %RE | С | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.9 | | 5.005 | | 78.2 | 63 | 147 | | | |

%REC

85.3

LowLimit

63

SPK value SPK Ref Val

4.965

Qualifiers:

Analyte

Surr: DNOP

Value exceeds Maximum Contaminant Level.

Result

4.2

PQL

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

RL Reporting Detection Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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

Page 2 of 5

%RPD

HighLimit

147

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305211

08-May-13

Client:

Animas Environmental

Project:

CoP San Juan 27-4 #27

Sample ID: 1305072-004AMSD

SampType: MSD

TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: **BatchQC** Batch ID: 7278

RunNo: 10338

Prep Date:

Analysis Date: 5/6/2013

Units: %REC

147

5/3/2013

PQL

SeqNo: 294870

92.8

HighLimit

Analyte Surr: DNOP Result 4.7

SPK value SPK Ref Val 5.015

%REC LowLimit

RPDLimit Qual

Sample ID: 1305072-012AMSD

SampType: MSD

TestCode: EPA Method 8015D: Diesel Range Organics

%RPD

Client ID:

BatchQC

Batch ID: 7280

RunNo: 10338

Prep Date: 5/3/2013

Analysis Date: 5/7/2013

SeqNo: 294871

Units: %REC

Analyte Surr: DNOP Result PQL SPK value SPK Ref Val

%REC

LowLimit

HighLimit

RPDLimit

Qual

3.9

4.995

78.4

63

%RPD 147

0

Sample ID: MB-7322

SampType: MBLK

Result

Result

55

5.4

TestCode: EPA Method 8015D: Diesel Range Organics

Prep Date: 5/7/2013

Client ID: PBS

Batch ID: 7322

RunNo: 10338

Units: mg/Kg

0

Analyte

Analysis Date: 5/7/2013 PQL

SeqNo: 295223 SPK value SPK Ref Val

%REC LowLimit HighLimit %RPD

Diesel Range Organics (DRO) Surr: DNOP

ND 10 11

10.00

SPK value SPK Ref Val

109

63

RPDLimit

Qual

Client ID: LCSS

Prep Date: 5/7/2013

Sample ID: LCS-7322

SampType: LCS

Batch ID: 7322

0

TestCode: EPA Method 8015D: Diesel Range Organics RunNo: 10338

%REC

147

%RPD

Analyte Diesel Range Organics (DRO)

Surr: DNOP

Analysis Date: 5/7/2013 PQL

SeqNo: 295225

47.4

63

LowLimit

Units: mg/Kg HighLimit

RPDLimit Qual

10 50.00 5.000

111 107

122 147

Qualifiers:

- Е Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2 Reporting Detection Limit
- Value exceeds Maximum Contaminant Level.

- В Analyte detected in the associated Method Blank

RPD outside accepted recovery limits

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

R

Spike Recovery outside accepted recovery limits

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305211

08-May-13

Client:

Animas Environmental

Project:

Analyte

CoP San Juan 27-4 #27

Sample ID: 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBS

Batch ID: R10444

PQL

5.0

RunNo: 10444

Prep Date:

Analysis Date: 5/7/2013

SeqNo: 295711

%REC

Units: mg/Kg HighLimit

Qual

Gasoline Range Organics (GRO)

ND 960

1000

96.4

120

%RPD **RPDLimit**

Surr: BFB

SampType: LCS

SPK value SPK Ref Val

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: 2.5UG GRO LCS Client ID: LCSS

Batch ID: R10444

RunNo: 10444

Prep Date:

Units: mg/Kg

Analysis Date: 5/7/2013

SeqNo: 295712

Analyte Gasoline Range Organics (GRO) Result **PQL** 29

SPK value SPK Ref Val 25.00

115

HighLimit 136 %RPD **RPDLimit**

Qual

Surr: BFB

5.0

109

%REC

62.6 80

LowLimit

80

120

1100 1000

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

P Sample pH greater than 2

Reporting Detection Limit

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R

Spike Recovery outside accepted recovery limits

RPD outside accepted recovery limits

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1305211

08-May-13

Client:

Animas Environmental

Project:

CoP San Juan 27-4 #27

Sample ID: 5ML RB

SampType: MBLK

TestCode: EPA Method 8021B: Volatiles

Client ID: PBS

Batch ID: R10444

ND

ND

ND

ND

RunNo: 10444

%RPD

%RPD

RPDLimit

Units: mg/Kg

Prep Date: Analyte

Result

Analysis Date: 5/7/2013

PQL

0.050

0.050

0.050

0.10

1.000

SeqNo: 295716

HighLimit

RPDLimit Qual

Qual

Benzene Toluene Ethylbenzene Xylenes, Total

Client ID: LCSS

Prep Date:

Surr: 4-Bromofluorobenzene

Sample ID: 100NG BTEX LCS

1.0 SampType: LCS

Batch ID: R10444

Analysis Date: 5/7/2013

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 8021B: Volatiles

80

RunNo: 10444

103

SeqNo: 295717

Units: mg/Kg

120

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit |
|----------------------------|--------|-------|-----------|-------------|------|----------|-----------|
| Benzene | 1.1 | 0.050 | 1.000 | 0 | 108 | 80 | 120 |
| Toluene | 1.1 | 0.050 | 1.000 | 0 | 110 | 80 | 120 |
| Ethylbenzene | 1.1 | 0.050 | 1.000 | 0 | 109 | 80 | 120 |
| Xylenes, Total | 3.3 | 0.10 | 3.000 | 0 | 111 | 80 | 120 |
| Surr: 4-Bromofluorobenzene | 1 1 | | 1 000 | | 107 | 8Ò | 120 |

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2 P

Reporting Detection Limit

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits Page 5 of 5



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: | 1305211 | | RcptNo: | 1 |
|-------------------|---|---|--|--------------------------|-----------------------------------|----------------------|
| Received by/da | te: MA | 05/07/13 | • | | | |
| Logged By: | Michelle Garcia | 5/7/2013 9:45:00 AM | | Michell Gare | ن <i>ه</i> | |
| Completed By: | Michelle Garcia | 5/7/201/3 10:0£:48 AM | | Muhill Gan Mitall Gan | (م | |
| Reviewed By: | | 05/07/13 | | 7 | | • |
| Chain of Cus | stody | | | • | | |
| | als intact on sample bottles | ? | Yes : | No | Not Present ✓ | |
| | Custody complete? | | Yes 🗸 | No | Not Present | |
| | e sample delivered? | | Courier | | | |
| Log In | | | | | | |
| | empt made to cool the sam | ples? | Yes 🗸 | No ! I | NA ! | |
| 5. Were all sa | mples received at a temper | rature of >0° C to 6.0°C | Yes 🗸 | No ! | NA (I | |
| 6. Sample(s) | in proper container(s)? | | Yes 🗸 | No · | | |
| 7. Sufficient s | ample volume for indicated | test(s)? | Yes 🗸 | No : : | | |
| 8. Are sample | s (except VOA and ONG) p | roperly preserved? | Yes 🗸 | No !! | | • |
| 9. Was preser | rvative added to bottles? | | Yes | No 🗸 | NA É I | |
| 10.VOA vials t | nave zero headspace? | | Yes : | No ; | No VOA Vials | |
| | sample containers received | broken? | Yes | No 🗸 | | |
| 1 1, 11 dio any 1 | · | | | ļ | # of preserved bottles checked | |
| 12.Does paper | rwork match bottle labels? | | Yes 🗸 | No 📒 | for pH: | |
| | epancles on chain of custo | | ام: | | (<2 Adjusted? | or >12 unless noted) |
| | es correctly identified on Ch | - | Yes 🗸 | No : | , tajastoa : | |
| | hat analyses were requeste | | Yes 🗸 | No | Checked by: | |
| | olding times able to be met? y customer for authorization | | Yes i✔ | No i | | |
| Special Han | dling (<u>if applicable)</u> | | | | | |
| | notified of all discrepancies | with this order? | Yes | No : | NA 🗸 | |
| Perse | on Notified: | Date: | and the second s | Tomas and Control (1975) | | |
| i | /hom: | Via: | eMail | Phone Fax | In Person | 1 - |
| i | arding: | araniana antarana antarana antarana antarana da | AND STREET OF STREET, WASHINGTON | | | |
| | t Instructions: | | and the second second second second | | | į |
| 17. Additional | | • | | | | |
| 18. Cooler Inf | formation | | | | | |
| Cooler | No Temp °C Condition | | Seal Date | Signed By | | • |
| [1 | 1.0 Good | Yes | | <u> </u> | | |

| Chain-of-Custody Record | | Turn-Around Time: HALL ENVIRONMENTAL | | | | | | | | | AI | | | | | | | | | | |
|---|---------------|--|---|----------------------------|----------------------|-----------------------------------|-----------------|-------------|------------------------------|--------------------|--------------------|---------------------|--|-------------------------------|------------------------|-------------|-----------------|-----------|-----------|---|--------------------|
| Client: | Inimas | Enviro | inmental Services | ☐ Standard Project Name | ∦ Rush | Same Day 7-4#27 | | 22 | | A | N | AL | YS | SIS | | A | BO | | TO | | F |
| Mailing A | Address | 624 | E. Comanche | COP San | Juan 2 | 7-4#27 | | 49 | 01 H | | | | | | | | М 87 | '109 | | | |
| Fav | minate | m. N. | n 87401 | Project #: | - | | | Te | el. 50 | 05-34 | 15-3 | 975 | F | ax | 505- | 345 | -4107 | 7 | | | |
| Farmington, NM 87401 Phone #: 505 - 564 - 2281 | | 1 | | | Analysis Request | | | | | | | | | | | | | | | | |
| email or Fax#: | | | Project Mana | ger: | | _ | <u>ارگ</u> | ĝ | | | | | (7) | | | | | | | | |
| QA/QC F | • | | | 7 | | | 021 | sor | 8 | | | <u>(%</u> | | λ, Σ | PCB's | | | | | | |
| X Stand | _ | | ☐ Level 4 (Full Validation) | D. Wats | son | | (8021) | (Ga | l S | | i | SIMS) | | PO . | . P.C | | | | | | |
| Accreditation □ NELAP □ Other | | Sampler: H. Woods On Ice. Sylves Salva Sal | | | | | 0/05 | 18.1) | 04.1) | 8270 8 | | 3,NO ₂ | / 8082 | | A A | | | | or N | | |
| □ EDD | (Type)_ | - | | Sample Tem | perature: | i or constant | Ŕ | H . | (GR | d 4′ |)S p | or. | tals | Ν, | ides | ۾ | 9 | | | | 2 |
| Date | Time | Matrix | Sample Request ID | Container Type and # | Preservative Type | HEAL No. | BTEX + (01000)+ | BTEX + MTBE | TPH 8015B (GRO / DRO / (MBQ) | TPH (Method 418.1) | EDB (Method 504.1) | PAH's (8310 or 8270 | RCRA 8 Metals | Anions (F,CI,NO3,NO2,PO4,SO4) | 8081 Pesticides / 8082 | 8260B (VOA) | 8270 (Semi-VOA) | | | | Air Bubbles (Y |
| 5/6/13 | 1016 | Soil | SC-5 | MeOH KIT | MeOH | -001 | X | | X | | | | | | | | | | | | |
| | .= | | | | | | | | | | | | | | | | \Box | | | 1 | T |
| | | | | 1 | | | | | | | | | | | | | - | \Box | + | + | + |
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| | | | | | | | | | | | | | | | | | | | | | |
| | | | · | | | | | | | | | i | | | ļ | | | | | | |
| Date: 5/4/13 | Time: 1749 | Relinquish | ed by: athu.M. Wood | Received by: | Wat | Date Time - 5/4/23 1749 | Re | mark | (S: P | 5:11 | to | Cox | 100 | ρPi | hill | 105 | | | | | |
| Date: | Time: | Relinquish | ed by: | Redeivéd by: | | Date Time | | | | | | | | | | | | | | | |
| 16/13 | 1866 | $\int h$ | A Walt | Muhl | 4 (price | 05/07/13 08 | 45 | ن ـ | | | | | | | | | | | | | |
| | necessary, | samples sub | mitted to Hall Environmental may be sub | contracted to other a | ccredited laborator | ies. This serves as notice of the | nis poss | sibility. | Any s | ub-cor | ntracte | ed data | a will b | e clea | rly not | ated o | n the a | ınalytica | al report | • | |

FORM 42 Rev 03/12

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



OGCC RECEPTION

Receive Date: 05/31/2013

Document Number: 400427133

NOTICE OF NOTIFICATION

| | Entity | <u>information</u> | | | |
|--|--------------|----------------------------|-----------------|--------------|-------------|
| OGCC Operator Number: 26580 | | Contact F | Person: | Dollie Bus | se |
| Company Name: BURLINGTON RESOURCES OIL & G | SAS LP | Phone: (| (505) 324-6104 | | - |
| Address: PO BOX 4289 | | Fax: (|) | | |
| City: FARMINGTON State: NM Zi | p: 8749 | e Email: c | dollie.I.busse@ | @cop.com | |
| API #: 05 - 067 - 05043 - 00 Facility ID: | | Locat | tion ID: | | _ |
| Facility Name: UTE 1 | | | | | |
| Sec: 15 Twp: 32N Range: 11V | N QtrO | Qtr: SESW Lat: | 37.013410 | Long: | -108.032780 |
| BRADENHEAD TEST – 48-hour Notice Test Date: 06/06/2013 Time: 09:0 | O (HH:MN | Л) | | | |
| This form must be signed by an authorized agent of the | e entity mak | ng assertion. | | _ | |
| I certify under penalty of perjury that this report has be correct and complete. | een examine | ed by me and to the best o | of my knowled | lge is true, | |
| Print Name: Dollie L. Busse | Email: | dollie.l.busse@cop.com | | | |
| Signature: | Title: | Staff Regulatory Tech | | Date: | 05/31/2013 |