

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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party DJR Operating, LLC	OGRID 371838
Contact Name Amy Archuleta	Contact Telephone 505-632-3476 x201
Contact email aarchuleta@djrlc.com	Incident # (assigned by OCD) NVF1826951457
Contact mailing address 1 Road 3263 Aztec, NM 87410-9521	

Location of Release Source

Latitude

36.29493

Longitude

-107.65358

(NAD 83 in decimal degrees to 5 decimal places)

Site Name South Blanco Federal 23-3	Site Type Oil
Date Release Discovered 9-20-2018	API# (if applicable) 30-045-28163

Unit Letter	Section	Township	Range	County
O	23	24N	8W	San Juan

NMOCO

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

JUN 24 2019

Nature and Volume of Release

DISTRICT III

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 4 bbls	Volume Recovered (bbls) 0 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The producing well is the South Blanco Federal 23-3. This well was down for a long period of time and was returned to production 9/19/18 at 4pm. The morning of 9/20/18 at 8:30 am the flowline was found leaking. The leak occurred off South Blanco Federal 23-2 PA Well Site.

Site remediation included excavation, transport and off-site disposal of 562 cy of petroleum contaminated soil between October 2018 and May 2019. Closure sampling confirmed clean extents, with concentrations below applicable NMOCDA Action Levels. Backfill of the excavation area was completed on June 10, 2019.

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Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100' (ft bgs)
Did this release impact groundwater or surface water?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated. Note: see final excavation report.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Amy Archuleta Title: Regulatory Specialist
Signature: _____ Date: 6/18/19
email: aarchuleta@djrlc.com Telephone: 505-632-3476

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amy ArchuletaTitle: Regulatory SpecialistSignature: Date: 6/18/19email: aarchuleta@djrlc.comTelephone: 505.632.3476**OCD Only**Received by: OCDDate: 6/24/19

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 7/22/19Printed Name: CoryTitle: Environmental Specialist

June 18, 2019

Amy Archuleta
Regulatory Supervisor
DJR Operating, LLC
1 Road 3263
Aztec, New Mexico 87410-9521

Sent via electronic mail to:
aarchuleta@djrlc.com

**RE: Excavation Clearance Report
South Blanco Federal 23-3
API# 30-045-28163
Incident No. NCS 1826951457
SW¼ SE¼, Section 23, T24N, R8W
San Juan County, New Mexico**

Dear Ms. Archuleta:

Animas Environmental Services, LLC (AES) completed confirmation sampling of the excavated areas associated with petroleum-contaminated soils at the DJR Operating (DJR) South Blanco Federal 23-3 release location between October 2018 and May 2019. The release, consisting of approximately four barrels of crude oil, was confirmed at this location on September 20, 2018. Confirmation soil samples were collected by AES on a periodic basis to monitor the progress of the excavation and to document when remaining contaminant concentrations were below the applicable New Mexico Oil Conservation Division (NMOCD) action levels.

1.0 Site Information

1.1 Location

Site Name – South Blanco Federal 23-3
Legal Description – SW¼ SE¼, Section 23, T24N, R8W, San Juan County, New Mexico
Release Latitude/Longitude – N36.29420, W107.64853, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Location Map

1.2 NMOCD Ranking

In accordance with NMAC 19.15.29.12 Table I (August 2018), release closure criteria are based on the minimum depth to groundwater within the horizontal extent of the release area:

- **Depth to Groundwater:** The site is 140 feet (ft) higher than Blanco Wash located approximately two miles downgradient. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be greater than 100 ft below ground surface (bgs).
- **Sensitive Receptor Determination:** An unnamed and impacted wash that ultimately drains to Blanco Wash is located 40 ft south of the location. In accordance with NMAC 19.15.29.12C.4, the release must be treated as if it occurred less than 50 ft bgs to groundwater.

NMOCD Action levels are:

- 10 mg/kg benzene and 50 mg/kg total benzene, toluene, ethylbenzene, and xylene (BTEX);
- 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO);
- 600 mg/kg chloride.

1.3 Assessment and Excavation– September 2018 to May 2019

The initial release consisted of approximately four barrels (bbls) of crude oil. The subject well was down for a long period and was returned to production on September 19, 2018, at 4 pm. The flowline off the neighboring South Blanco Federal 23-2 plugged and abandoned well site was found to be leaking on the morning of September 20, 2018, at 8:30 am. Contaminant impacts were observed to extend approximately 2,100 feet down the unnamed wash adjacent to the location. DJR, in consultation with NMOCD and BLM, began immediate mitigation efforts, including removal of free phase oil and contaminated soils.

Field sampling activities, over the course of different sampling events, included collection of 11 confirmation and 4 grab samples from the unnamed wash immediately downstream of the site location, and 12 confirmation soil samples from the walls and bases of the excavation area. The area of the final excavation area measured approximately 21 ft by 36 ft by 6 to 9 ft in depth.

A total of 562 yd³ of petroleum contaminated soil was removed during excavation activities and disposed of at Industrial Ecosystems, Inc. (IEI) Landfarm (NMOCD Permit #NM-01-0010B) (507 yd³) and at Envirotech Landfarm (NMOCD Permit #NM-01-0011)

(55 yd³). Sample locations and final excavation extents are presented on Figures 3, 4, and 5, and excavation activities are documented in the photograph log. Waste disposal manifests are being maintained separately by DJR.

2.0 Soil Sampling

Soil samples were collected by AES with oversight by NMOCD on the following dates:

- October 4 and 29, 2018;
- April 30, 2019; and
- May 31, 2019.

2.1 Laboratory Analyses

The samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. The samples were maintained on ice until delivery to the analytical laboratory, Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico. All samples, except SC-1 (Upper) and SC-2 (Lower) (May 2019), were laboratory analyzed for:

- BTEX per USEPA Method 8021B;
- TPH as GRO, DRO, MRO per USEPA Method 8015 M/D; and
- Chlorides per U.S. Environmental Protection Agency (USEPA) Method 300.0.

Samples SC-1 (Upper) and SC-2 (Lower) were analyzed for chlorides only.

2.2 Laboratory Analytical Results

Laboratory analytical results for the final clearance samples were below applicable action levels for benzene, total BTEX, TPH (as GRO, DRO, and MRO), and chlorides, except for SC-3, which was collected near the flowline on April 30, 2019. Sample results at this location showed 1,990 mg/kg chlorides. Subsequent sampling near the SC-3 location was conducted on May 31, 2019, and these samples, SC-1 (Upper) and SC-2 (Lower), showed chloride concentrations of 523 mg/kg and 566 mg/kg, respectively. Laboratory analytical results are summarized on Figures 3 and 4, and laboratory analytical reports are attached.

3.0 Conclusions and Reclamation Activities

3.1 Conclusions

DJR completed excavation of historic contamination at the South Blanco Federal 23-2, sourced from the neighboring South Blanco Federal 23-2, between September 2018 and May 2019. Approximately 562 yd³ of petroleum contaminated soil were excavated and transported for off-site disposal at authorized facilities between October 2018 and May 2019.

Final clearance of the excavated areas was completed during multiple sampling events October 2018 through May 2019. Final laboratory analytical results reported benzene, total BTEX, TPH (as GRO/DRO/MRO), and chloride concentrations in all samples, except SC-3 chlorides, as below applicable NMOCD action levels. Two samples, SC-1 (Upper) and SC-2 (Lower), subsequently collected in the immediate vicinity of SC-3, were below the chloride action level. No further action is recommended at this time.

3.2 Reclamation Activities

DJR completed backfilling of the excavation area on June 3, 2019. The area is not currently scheduled for reclamation since it is part of the active well location.

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

Sincerely,



David J. Reese
Environmental Scientist

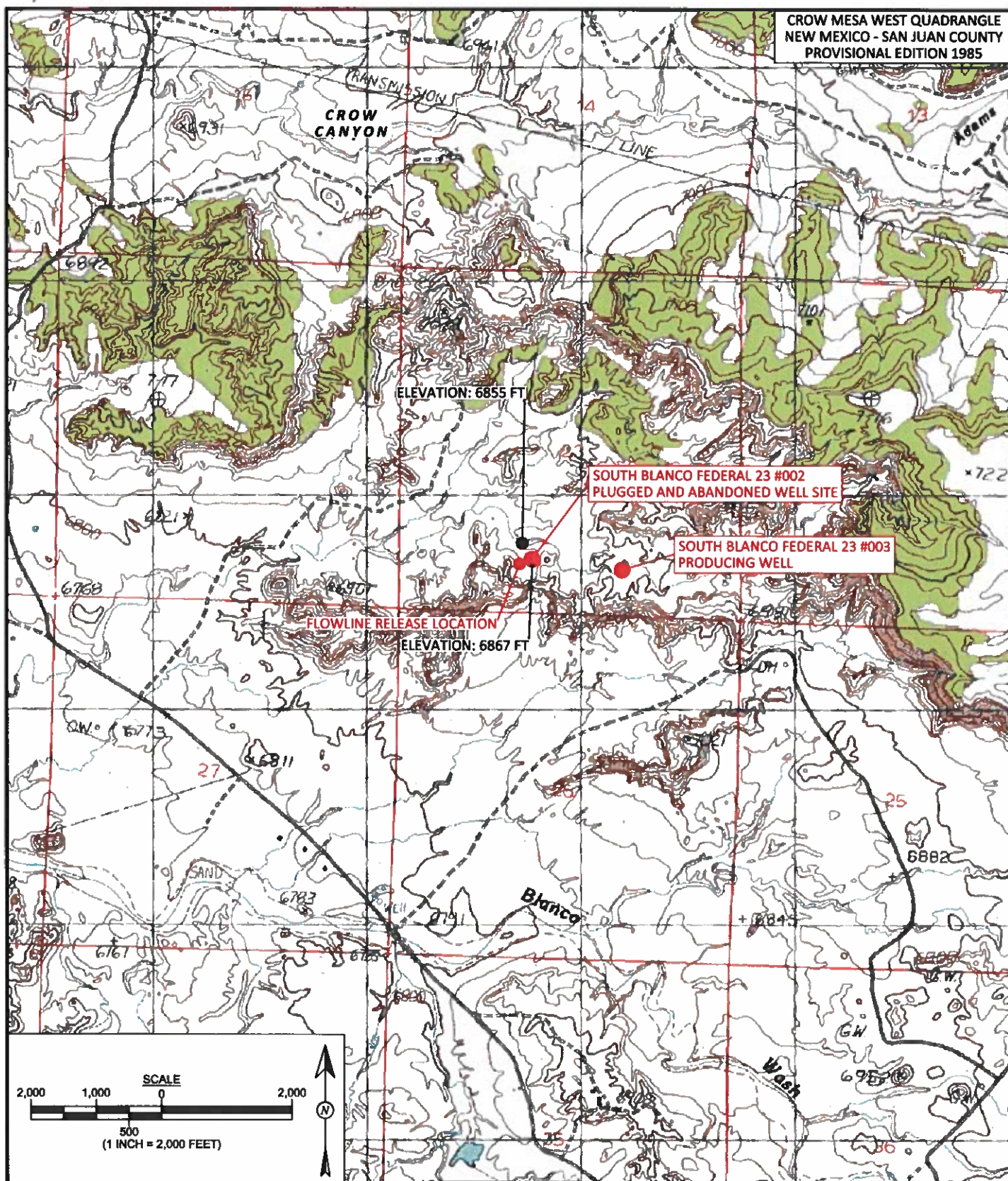


Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Location Map
Figure 3. Wash Composite Sample Locations, October 2018 and April 2019
Figure 4. Site Location Composite Sample Locations - October 2018, April and May 2019
Figure 5. Site Location with Flowline Excavation Area (April 2019)
Photograph Log
Hall Analytical Report 1810334
Envirotech Analytical Reports P810127, P905007, P905097

C:\Users\emcnally\Dropbox (Animas Environmental)\0000 aes server client projects dropbox\2019 Client Projects\DJR Operating\South Blanco 23-3\Reports\South Blanco 23-3 Exc Clearance Report 061819.docx



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animasenvironmental.com

DRAWN BY:

C. Lameman

DATE DRAWN:

September 21, 2018

REVISIONS BY:

C. Lameman

DATE REVISED:

June 20, 2019

CHECKED BY:

E. McNally

DATE CHECKED:

June 20, 2019

APPROVED BY:

E. McNally

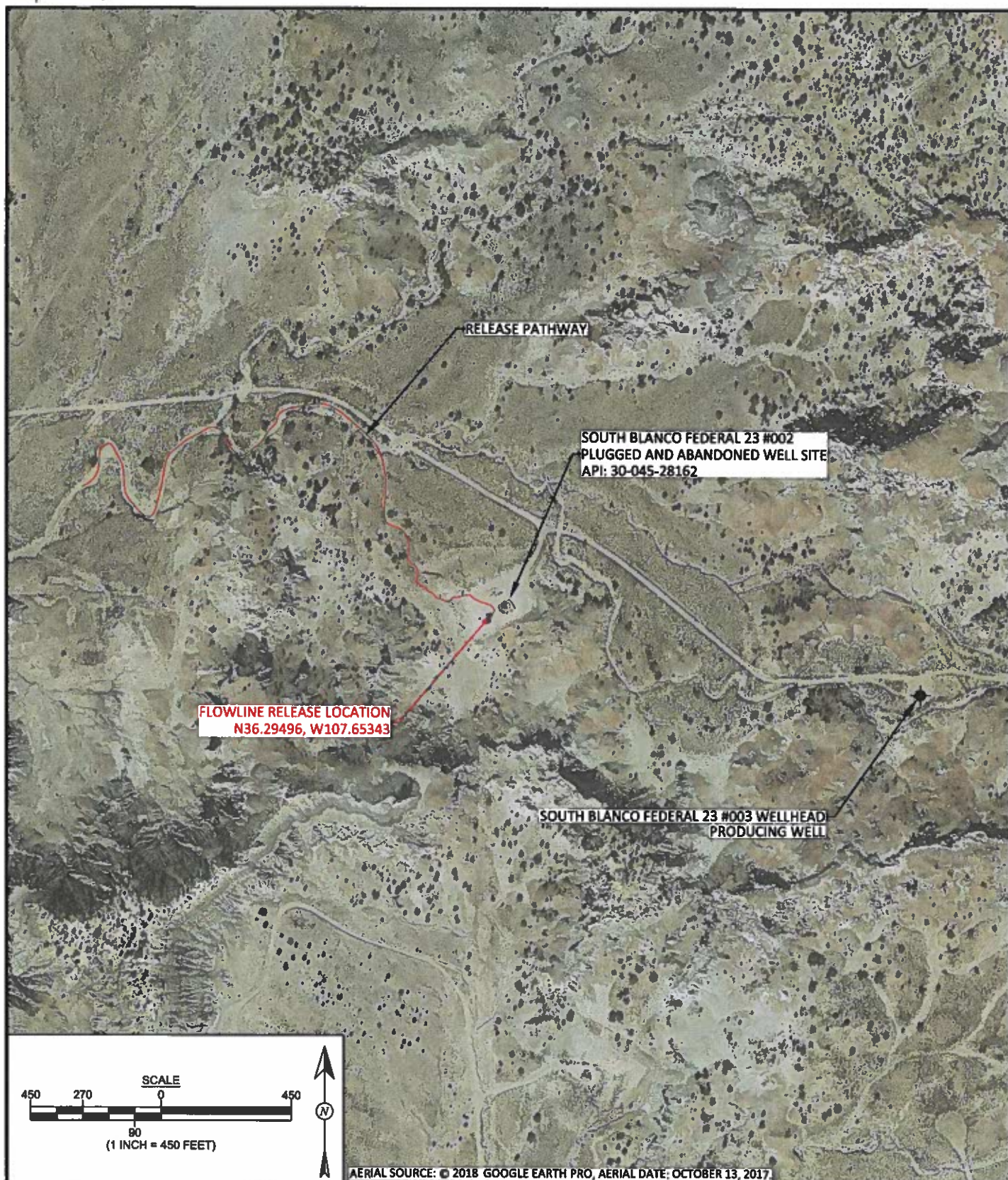
DATE APPROVED:

June 20, 2019

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

DJR OPERATING
SOUTH BLANCO FEDERAL 23 #003
API: 30-045-28163
SW¼ SE¼, SECTION 23, T24N, R8W
SAN JUAN COUNTY, NEW MEXICO
N36.29420, W107.64853



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DRAWN BY: C. Lameman	DATE DRAWN: September 21, 2018
REVISIONS BY: C. Lameman	DATE REVISED: June 20, 2019
CHECKED BY: E. McNally	DATE CHECKED: June 20, 2019
APPROVED BY: E. McNally	DATE APPROVED: June 20, 2019

FIGURE 2

AERIAL SITE LOCATION MAP
DJR OPERATING
SOUTH BLANCO FEDERAL 23 #003
API: 30-045-28163
SW $\frac{1}{4}$ SE $\frac{1}{4}$, SECTION 23, T24N, R8W
SAN JUAN COUNTY, NEW MEXICO
N36.29420, W107.64853

FIGURE 3

**WASH COMPOSITE SAMPLE LOCATIONS
OCTOBER 2018 AND APRIL 2019**

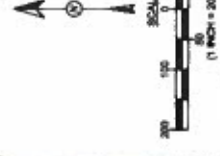
DIR OPERATING
SOUTH BLANCO FEDERAL 23 8003
API: 30-045-28163
SW 1/4 SEC. SECTION 23, T44N, R8W
SAN JUAN COUNTY, NEW MEXICO
N36.29430, W107.65343



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DRAWN BY: C. Lammiman	DATE DRAWN: October 10, 2018
REVISED BY: C. Lammiman	DATE REVISED: June 20, 2019
CHECKED BY: E. McNulty	DATE CHECKED: June 20, 2019
APPROVED BY: E. McNulty	DATE APPROVED: June 20, 2019

- LEGEND**
- 5-POINT COMPOSITE SAMPLE LOCATIONS (OCTOBER 2018)
 - GRAB SAMPLE LOCATIONS (OCTOBER 2018)
 - GRAB SAMPLE LOCATIONS (APRIL 2019)



Laboratory Analytical Results									
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total PTEX (mg/kg)	TPH - GNO (mg/kg)	TPH - DNO (mg/kg)	TPH - ARO (mg/kg)	Chlorides (mg/kg)	
NIMCO ACTION LEVEL									
			10	50	100	100		600	
SC-1	10/4/18	0.25 to 0.5	<0.025	<0.221	<4.9	17	49	<30	
SC-2	10/4/18	0.25 to 0.5	<0.023	<0.210	<4.7	53	<48	<30	
SC-3	10/4/18	0.25 to 0.5	<0.023	<0.210	<4.7	<3.7	<30	<30	
SC-4	10/4/18	0.25 to 0.5	<0.025	<0.222	<4.9	<1.0	<30	<30	
SC-5	10/4/18	0.25 to 1.0	<0.025	<0.222	<4.9	<3.8	<49	<30	
SC-6	10/4/18	0.25 to 1.25	<0.023	<0.208	<4.6	<3.8	<49	<30	
SC-7	10/4/18	0.25 to 1.25	<0.023	<0.211	<4.7	<3.5	<47	<30	
SC-8	10/4/18	0.25 to 1.5	<0.024	<0.220	<4.9	<1.0	<50	<30	
SC-9	10/4/18	0.25 to 1.5	<0.023	<0.207	<4.6	<3.7	<48	<30	
SC-10	10/4/18	0.25 to 1.5	<0.024	<0.216	<4.8	<3.9	<50	<30	
SC-11	10/4/18	0.25 to 1.25	<0.025	<0.221	<4.9	<3.7	<48	<30	
GRAB 1	10/4/18	Surface	<0.024	<0.216	<4.8	11	<49	<30	
GRAB 2	10/4/18	Surface	<0.025	<0.225	<5.0	84	<49	160	
WASH GRB-3	4/30/19	Surface	<0.025	<0.100	<20.0	76.5	<50.0	<20.0	
WASH GRB-4	4/30/19	Surface	<0.025	<0.100	<20.0	<25.0	<50.0	<20.0	

ALL SAMPLES WERE LABORATORY ANALYZED PER USEPA METHOD 8021, 8015 AND 300.0.



FIGURE 4

**SITE LOCATION COMPOSITE
SAMPLE LOCATIONS
OCTOBER 2018, APRIL AND MAY 2019**
DIR OPERATING
SOUTH BLANCO FEDERAL 23 M003
API: 30-045-38163
SW¼ SE¼ SECTION 23, T24N, R8W
SAN JUAN COUNTY, NEW MEXICO
N36.29420, W107.64853

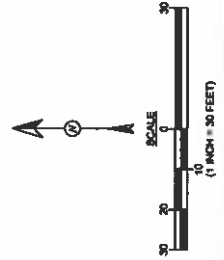


Farmington, NM • Durango, CO
animas@animasenv.com

DRAWN BY:	DATE DRAWN:
C. Lammiman	October 10, 2018
REVISIONS BY:	DATE REVISED:
C. Lammiman	June 20, 2019
CHECKED BY:	DATE CHECKED:
E. McNally	June 20, 2019
APPROVED BY:	DATE APPROVED:
E. McNally	June 20, 2019

LEGEND

- S-POINT COMPOSITE SAMPLE LOCATIONS
OCTOBER 2018
- S-POINT COMPOSITE SAMPLE LOCATIONS
APRIL 2019
- S-POINT COMPOSITE SAMPLE LOCATIONS
MAY 2019



Laboratory Analytical Results									
Sample ID	Date	Depth (ft)	Benzenes (mg/kg)	Total BTEX (mg/kg)	TPH - GND (mg/kg)	TPH - DND (mg/kg)	TPH - AMRO (mg/kg)	Chlorides (mg/kg)	
NMIQCD ACTION LEVEL									
PAD 1	10/29/18	2 to 8	<0.100	<0.100	<20.0	91.8	<50.0	<20.0	600
PAD 2	10/29/18	2 to 8	<0.100	<0.100	<20.0	33.1	<50.0	<20.0	
SC-1	4/30/19	6 to 8	<0.0250	<0.100	<20.0	<25.0	<50.0	238	
SC-2	4/30/19	6 to 9	<0.0250	<0.100	<20.0	<25.0	<50.0	64.7	
SC-3	4/30/19	2 to 7	<0.0250	<0.100	<20.0	<25.0	<50.0	1,990	
SC-4	4/30/19	2 to 4	<0.0250	<0.100	<20.0	<25.0	<50.0	382	
SC-5	4/30/19	2 to 7	<0.0250	<0.100	<20.0	<25.0	<50.0	<20.0	
SC-6	4/30/19	2 to 4	<0.0250	<0.100	<20.0	<25.0	<50.0	<20.0	
SC-7	4/30/19	2 to 4	<0.0250	<0.100	<20.0	<25.0	<50.0	<20.0	
SC-8	4/30/19	2 to 7	<0.0250	<0.100	<20.0	<25.0	<50.0	171	
SC-1 (UPPER)	5/31/19	1 to 4	NA	NA	NA	NA	NA	NA	523
SC-2 (LOWER)	5/31/19	4 to 7	NA	NA	NA	NA	NA	NA	566

ALL SAMPLES WERE LABORATORY ANALYZED PER USEPA METHOD 8021, 8015 AND 300.0.



AIRTEL SOURCE: © HIGH-ELEVATION AERIAL IMAGERY, AERIAL DATE: APRIL 18, 2012

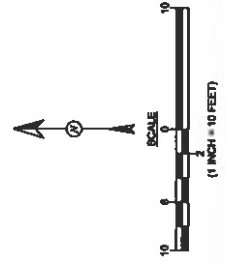
FIGURE 5

**SITE LOCATION WITH FLOWLINE
EXCAVATION AREA**
DIR OPERATING
SOUTH BLANCO FEDERAL 23 #008
API: 30-045-28153
SW¼ SE¼, SECTION 23, T4N, 18W
SAN JUAN COUNTY, NEW MEXICO
N36.29420, W107.64853



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DRAWN BY: C. Lenneman	DATE DRAWN: April 26, 2019
REVISIONS BY: C. Lenneman	DATE REVISED: June 20, 2019
CHECKED BY: E. McNelly	DATE CHECKED: June 20, 2019
APPROVED BY: E. McNelly	DATE APPROVED: June 20, 2019



AIRTEL SOURCE © 2019 ILLUMINATION ALBUM, MADISON, WISCONSIN, AERIAL DATE: APRIL 14, 2019

South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 1: South excavation wall. Date taken: 4/30/19.



Photo 2: East (right) and north (left) excavation walls. Date taken: 4/30/19.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 3: East (left) and south (right) excavation walls. Date taken: 4/30/2019.



Photo 4: West (left) and north (right) excavation walls. Date taken: 4/30/2019.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 5: Completion of backfilling the excavation. Date taken: 6/10/2019.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 27: S-27 (36.29660, -107.65612). Date taken: 10/04/18.

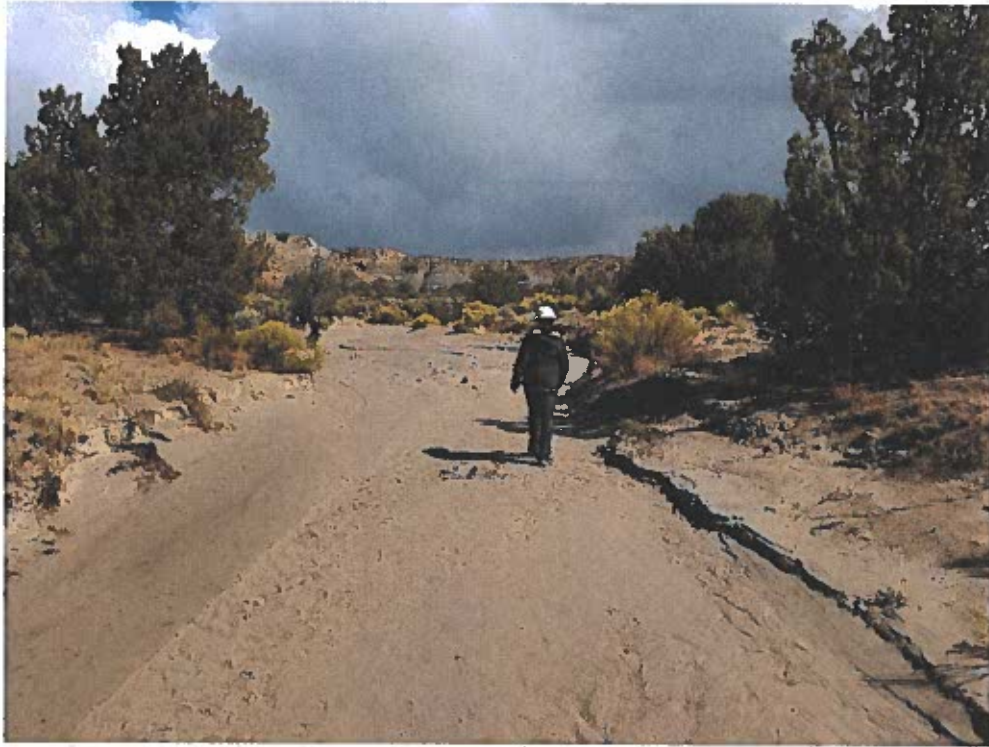


Photo 28: S-28 (36.29652, -107.65622). Date taken: 10/04/18.



NMOC

1

JUL 18 2019

DISTRICT III

South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 29: S-29 (36.29644, -107.65633). Date taken: 10/04/18.



Photo 30: S-30 (36.29648, -107.65646). Date taken: 10/04/18.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 31: S-31 (36.29659, -107.65656). Date taken: 10/04/18.



Photo 32: S-32 (36.29669, -107.65662). Date taken: 10/04/18.



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API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 33: S-33 (36.29670, -107.65675). Date taken: 10/04/18.



Photo 34: S-34 (36.29667, -107.65675). Date taken: 10/04/18.

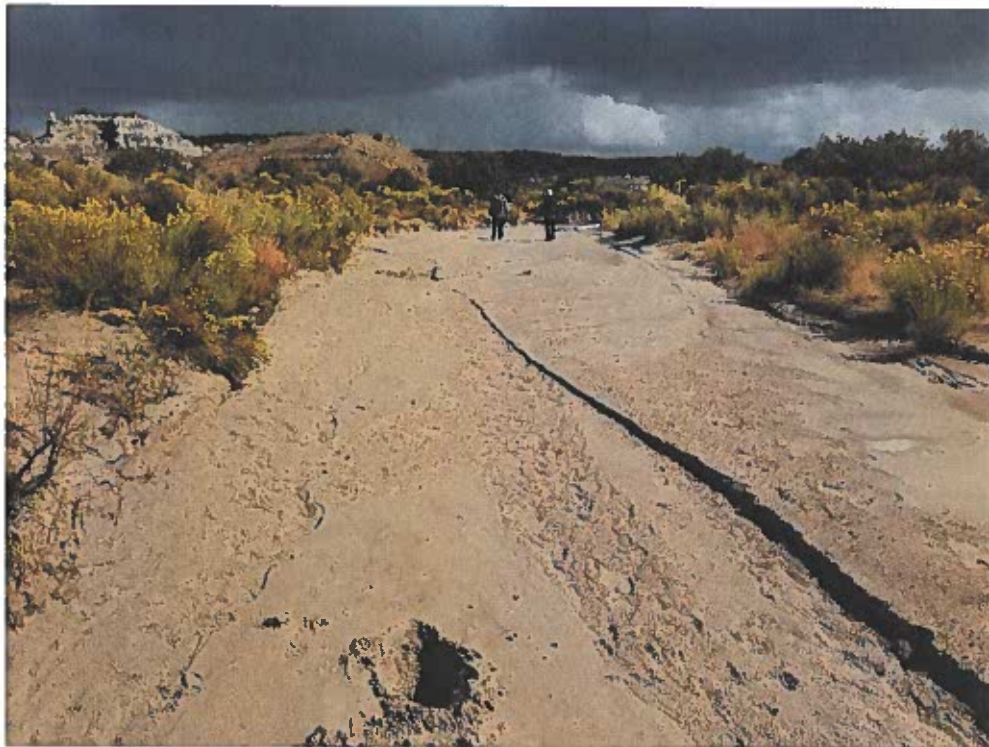


South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 35: S-35 (36.29662, -107.65700). Date taken: 10/04/18.



Photo 36: S-36 (36.29655, -107.65712). Date taken: 10/04/18.

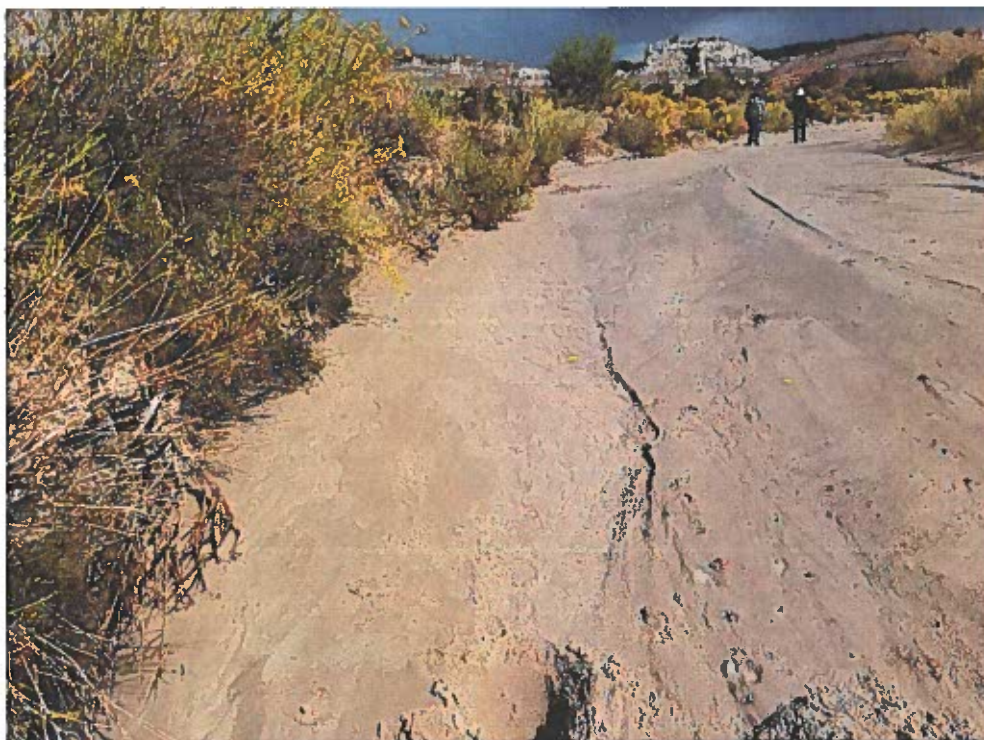


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September 2018 Release

Photo 37: S-37 (36.29646, -107.65721). Date taken: 10/04/18.



Photo 38: S-38 (36.29635, -107.65727). Date taken: 10/04/18.



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API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 39: S-39 (36.29624, -107.65733). Date taken: 10/04/18.



Photo 40: S-40 (36.29612, -107.65733). Date taken: 10/04/18.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 41: S-41 (36.29602, -107.65733). Date taken: 10/04/18.

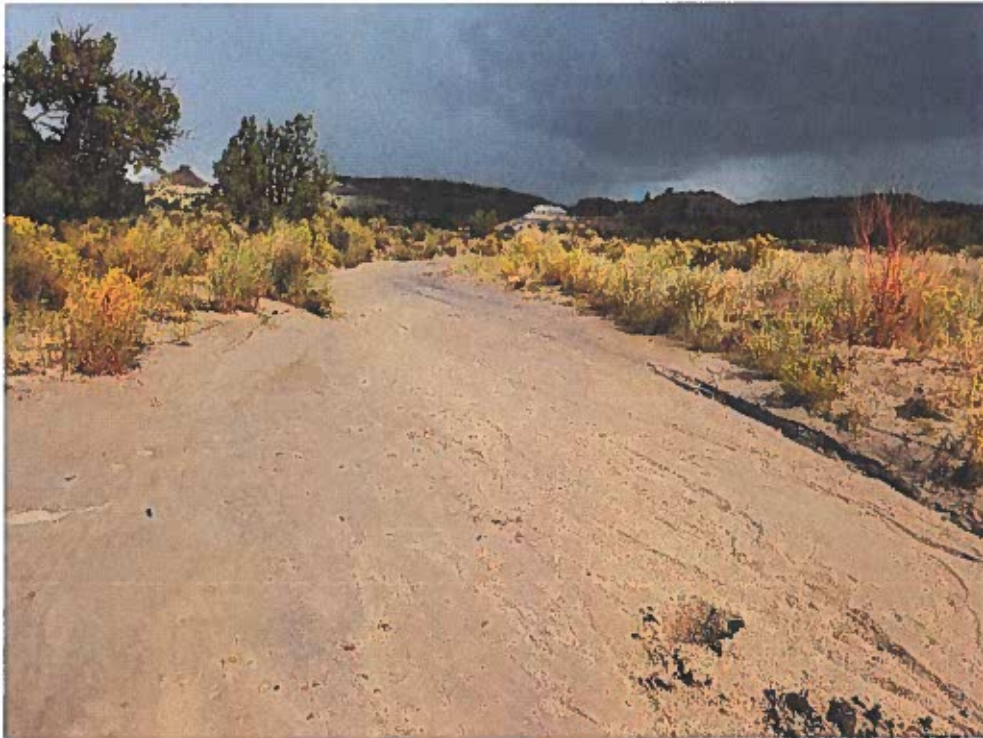
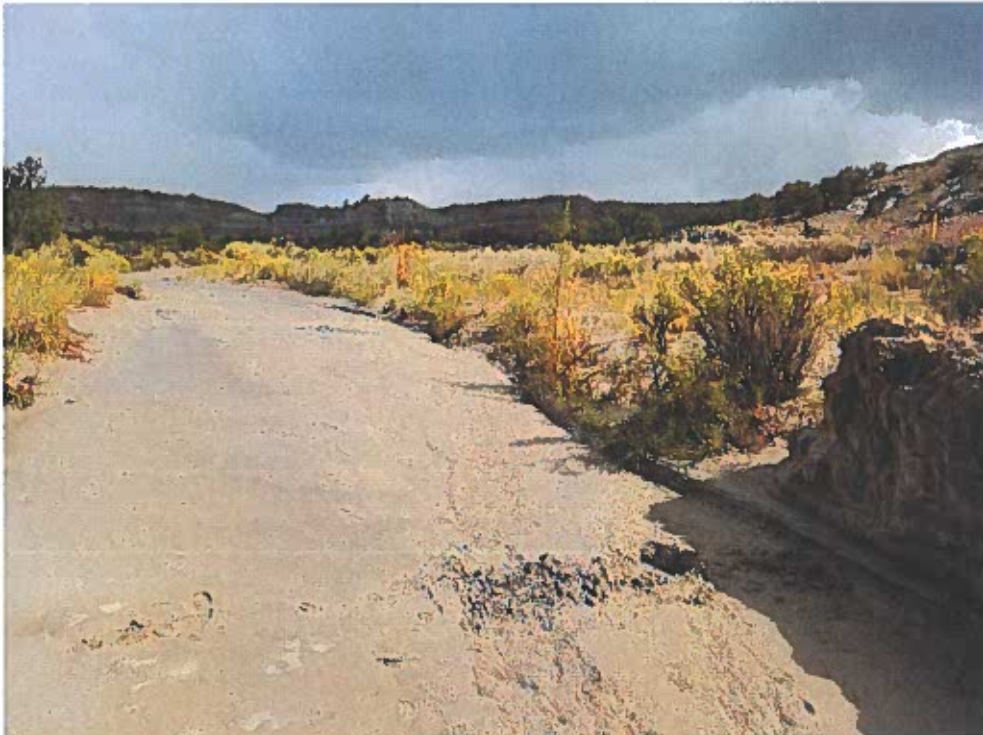


Photo 42: S-42 (36.29591, -107.65736). Date taken: 10/04/18.



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API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 43: S-43 (36.29585, -107.65746). Date taken: 10/04/18.



Photo 44: S-44 (36.29592, -107.65755). Date taken: 10/04/18.



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API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 45: S-45 (36.29600, -107.65765). Date taken: 10/04/18.



Photo 46: S-46 (36.29611, -107.65773). Date taken: 10/04/18.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 47: S-47 (36.29623, -107.65772). Date taken: 10/04/18.



Photo 48: S-48 (36.29634, -107.65778). Date taken: 10/04/18.



South Blanco Federal 23-3
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September 2018 Release

Photo 49: S-49 (36.29647, -107.65777). Date taken: 10/04/18.



Photo 50: S-50 (36.29657, -107.65785). Date taken: 10/04/18.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 51: S-51 (36.29654, -107.65801). Date taken: 10/04/18.



Photo 52: S-52 (36.29641, -107.65804). Date taken: 10/04/18.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 53: S-53 (36.29629, -107.65803). Date taken: 10/04/18.



Photo 54: S-54 (36.29614, -107.65810). Date taken: 10/04/18.



South Blanco Federal 23-3
API #30-045-28163, Incident No. NVF 1826951457
September 2018 Release

Photo 55: S-55 (36.29615, -107.65829). Date taken: 10/04/18.





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

October 10, 2018

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

RE: DJR South Blanco 23-3

OrderNo.: 1810334

Dear Tami Knight:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/5/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

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 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 9:41:00 AM

Lab ID: 1810334-001

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 11:12:18 AM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	17	9.8		mg/Kg	1	10/9/2018 4:55:12 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 4:55:12 PM	40849
Surr: DNOP	107	50.6-138		%Rec	1	10/9/2018 4:55:12 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Surr: BFB	90.2	15-316		%Rec	1	10/8/2018 11:11:36 AM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Xylenes, Total	ND	0.098		mg/Kg	1	10/8/2018 11:11:36 AM	40841
Surr: 4-Bromofluorobenzene	95.5	80-120		%Rec	1	10/8/2018 11:11:36 AM	40841

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

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** SC-2**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 9:54:00 AM**Lab ID:** 1810334-002**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 11:49:32 AM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	53	9.5		mg/Kg	1	10/9/2018 5:19:23 PM	40849
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2018 5:19:23 PM	40849
Surr: DNOP	117	50.6-138		%Rec	1	10/9/2018 5:19:23 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Surr: BFB	92.5	15-316		%Rec	1	10/8/2018 12:21:44 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Toluene	ND	0.047		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Ethylbenzene	ND	0.047		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Xylenes, Total	ND	0.093		mg/Kg	1	10/8/2018 12:21:44 PM	40841
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	10/8/2018 12:21:44 PM	40841

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** SC-3**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 10:02:00 AM**Lab ID:** 1810334-003**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 12:01:57 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2018 5:43:43 PM	40849
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2018 5:43:43 PM	40849
Surr: DNOP	111	50.6-138		%Rec	1	10/9/2018 5:43:43 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Surr: BFB	87.7	15-316		%Rec	1	10/8/2018 1:32:16 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Toluene	ND	0.047		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Ethylbenzene	ND	0.047		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Xylenes, Total	ND	0.093		mg/Kg	1	10/8/2018 1:32:16 PM	40841
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	10/8/2018 1:32:16 PM	40841

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** SC-4**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 10:19:00 AM**Lab ID:** 1810334-004**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 12:14:21 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2018 6:07:54 PM	40849
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2018 6:07:54 PM	40849
Surr: DNOP	113	50.6-138		%Rec	1	10/9/2018 6:07:54 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Surr: BFB	87.5	15-316		%Rec	1	10/8/2018 1:55:40 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2018 1:55:40 PM	40841
Surr: 4-Bromofluorobenzene	96.4	80-120		%Rec	1	10/8/2018 1:55:40 PM	40841

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 10:34:00 AM

Lab ID: 1810334-005

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 12:26:46 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/9/2018 6:32:18 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 6:32:18 PM	40849
Surr: DNOP	110	50.6-138		%Rec	1	10/9/2018 6:32:18 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Surr: BFB	90.0	15-316		%Rec	1	10/8/2018 2:18:59 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Xylenes, Total	ND	0.099		mg/Kg	1	10/8/2018 2:18:59 PM	40841
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	10/8/2018 2:18:59 PM	40841

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

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** SC-6**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 10:47:00 AM**Lab ID:** 1810334-006**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 1:03:59 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/9/2018 6:56:32 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 6:56:32 PM	40849
Surr: DNOP	113	50.6-138		%Rec	1	10/9/2018 6:56:32 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Surr: BFB	86.8	15-316		%Rec	1	10/8/2018 2:42:21 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Toluene	ND	0.046		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Ethylbenzene	ND	0.046		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Xylenes, Total	ND	0.093		mg/Kg	1	10/8/2018 2:42:21 PM	40841
Surr: 4-Bromofluorobenzene	94.8	80-120		%Rec	1	10/8/2018 2:42:21 PM	40841

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

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** SC-7**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 11:01:00 AM**Lab ID:** 1810334-007**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 1:16:24 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/9/2018 7:20:45 PM	40849
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/9/2018 7:20:45 PM	40849
Surr: DNOP	114	50.6-138		%Rec	1	10/9/2018 7:20:45 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Surr: BFB	87.5	15-316		%Rec	1	10/8/2018 3:05:41 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Toluene	ND	0.047		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Ethylbenzene	ND	0.047		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Xylenes, Total	ND	0.094		mg/Kg	1	10/8/2018 3:05:41 PM	40841
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	10/8/2018 3:05:41 PM	40841

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** SC-8**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 11:17:00 AM**Lab ID:** 1810334-008**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 1:28:49 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/9/2018 7:44:54 PM	40849
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2018 7:44:54 PM	40849
Surr: DNOP	113	50.6-138		%Rec	1	10/9/2018 7:44:54 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Surr: BFB	88.8	15-316		%Rec	1	10/8/2018 3:29:08 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Xylenes, Total	ND	0.098		mg/Kg	1	10/8/2018 3:29:08 PM	40841
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	10/8/2018 3:29:08 PM	40841

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level,	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** SC-9**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 11:30:00 AM**Lab ID:** 1810334-009**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 1:41:14 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2018 8:09:09 PM	40849
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2018 8:09:09 PM	40849
Surr: DNOP	114	50.6-138		%Rec	1	10/9/2018 8:09:09 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Surr: BFB	88.6	15-316		%Rec	1	10/8/2018 6:59:35 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Toluene	ND	0.046		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Ethylbenzene	ND	0.046		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Xylenes, Total	ND	0.092		mg/Kg	1	10/8/2018 6:59:35 PM	40841
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	10/8/2018 6:59:35 PM	40841

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** SC-10**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 11:42:00 AM**Lab ID:** 1810334-010**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 1:53:39 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/9/2018 8:33:16 PM	40849
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/9/2018 8:33:16 PM	40849
Surr: DNOP	116	50.6-138		%Rec	1	10/9/2018 8:33:16 PM	40849
EPA METHOD 8016D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Surr: BFB	89.5	15-316		%Rec	1	10/8/2018 12:35:38 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Toluene	ND	0.048		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Xylenes, Total	ND	0.096		mg/Kg	1	10/8/2018 12:35:38 PM	40841
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	10/8/2018 12:35:38 PM	40841

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services

Client Sample ID: SC-11

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 11:55:00 AM

Lab ID: 1810334-011

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 2:06:04 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/9/2018 8:57:32 PM	40849
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2018 8:57:32 PM	40849
Surr: DNOP	110	50.6-138		%Rec	1	10/9/2018 8:57:32 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Surr: BFB	88.0	15-316		%Rec	1	10/8/2018 12:58:14 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Toluene	ND	0.049		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Ethylbenzene	ND	0.049		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Xylenes, Total	ND	0.098		mg/Kg	1	10/8/2018 12:58:14 PM	40841
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	10/8/2018 12:58:14 PM	40841

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

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services**Client Sample ID:** Grab 1**Project:** DJR South Blanco 23-3**Collection Date:** 10/4/2018 10:24:00 AM**Lab ID:** 1810334-012**Matrix:** SOIL**Received Date:** 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	10/8/2018 2:18:28 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	11	9.8		mg/Kg	1	10/9/2018 9:21:36 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 9:21:36 PM	40849
Surr: DNOP	111	50.6-138		%Rec	1	10/9/2018 9:21:36 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Surr: BFB	89.2	15-316		%Rec	1	10/8/2018 1:20:53 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Toluene	ND	0.048		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Xylenes, Total	ND	0.096		mg/Kg	1	10/8/2018 1:20:53 PM	40841
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	10/8/2018 1:20:53 PM	40841

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1810334

Date Reported: 10/10/2018

CLIENT: Animas Environmental Services

Client Sample ID: Grab 2

Project: DJR South Blanco 23-3

Collection Date: 10/4/2018 12:02:00 PM

Lab ID: 1810334-013

Matrix: SOIL

Received Date: 10/5/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	160	30		mg/Kg	20	10/8/2018 2:30:53 PM	40870
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	84	9.9		mg/Kg	1	10/9/2018 9:45:53 PM	40849
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2018 9:45:53 PM	40849
Surr: DNOP	108	50.6-138		%Rec	1	10/9/2018 9:45:53 PM	40849
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Surr: BFB	85.3	15-316		%Rec	1	10/8/2018 1:43:33 PM	40841
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Toluene	ND	0.050		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Ethylbenzene	ND	0.050		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Xylenes, Total	ND	0.10		mg/Kg	1	10/8/2018 1:43:33 PM	40841
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	10/8/2018 1:43:33 PM	40841

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

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810334

11-Oct-18

Client: Animas Environmental Services

Project: DJR South Blanco 23-3

Sample ID	MB-40870	SampType	mblk	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	40870	RunNo	54708					
Prep Date	10/8/2018	Analysis Date	10/8/2018	SeqNo	1816691	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-40870	SampType	lcs	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	40870	RunNo	54708					
Prep Date	10/8/2018	Analysis Date	10/8/2018	SeqNo	1816692	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810334

11-Oct-18

Client: Animas Environmental Services

Project: DJR South Blanco 23-3

Sample ID	LCS-40849	SampType	LCS	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	LCSS	Batch ID	40849	RunNo	54707					
Prep Date	10/5/2018	Analysis Date	10/8/2018	SeqNo	1816363	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.2	70	130			
Surr: DNOP	5.7		5.000		114	50.6	138			

Sample ID	MB-40849	SampType	MBLK	TestCode	EPA Method 8015M/D: Diesel Range Organics					
Client ID	PBS	Batch ID	40849	RunNo	54707					
Prep Date	10/5/2018	Analysis Date	10/8/2018	SeqNo	1816364	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		115	50.6	138			

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810334

11-Oct-18

Client: Animas Environmental Services

Project: DJR South Blanco 23-3

Sample ID	MB-40841	SampType	MBLK	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	PBS	Batch ID	40841	RunNo	54705					
Prep Date	10/5/2018	Analysis Date	10/8/2018	SeqNo	1815940	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

ND

5.0

Surr: BFB

910

1000

90.8

15

316

Sample ID	LCS-40841	SampType	LCS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	LCSS	Batch ID	40841	RunNo	54705					
Prep Date	10/5/2018	Analysis Date	10/8/2018	SeqNo	1815941	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

25

5.0

25.00

0

100

75.9

131

Surr: BFB

1100

1000

106

15

316

Sample ID	1810334-001AMS	SampType	MS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	SC-1	Batch ID	40841	RunNo	54705					
Prep Date	10/5/2018	Analysis Date	10/8/2018	SeqNo	1815943	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

21

4.7

23.52

0

90.1

77.8

128

Surr: BFB

990

940.7

105

15

316

Sample ID	1810334-001AMSD	SampType	MSD	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	SC-1	Batch ID	40841	RunNo	54705					
Prep Date	10/5/2018	Analysis Date	10/8/2018	SeqNo	1815944	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)

23

4.9

24.49

0

94.9

77.8

128

9.21

20

Surr: BFB

1100

979.4

107

15

316

0

0

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1810334

11-Oct-18

Client: Animas Environmental Services

Project: DJR South Blanco 23-3

Sample ID	MB-40841		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	40841		RunNo:	54705				
Prep Date:	10/5/2018		Analysis Date:	10/8/2018		SeqNo:	1815960		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	80	120				

Sample ID	LCS-40841		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 40841		RunNo: 54705					
Prep Date:	10/5/2018		Analysis Date: 10/8/2018		SeqNo: 1815961		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	77.3	128			
Toluene	0.97	0.050	1.000	0	97.1	79.2	125			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80.7	127			
Xylenes, Total	2.9	0.10	3.000	0	97.8	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	1810334-002AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	SC-2		Batch ID: 40841		RunNo: 54705					
Prep Date:	10/5/2018		Analysis Date: 10/8/2018		SeqNo: 1815964		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9814	0	86.3	68.5	133			
Toluene	0.92	0.049	0.9814	0.009701	92.3	75	130			
Ethylbenzene	0.92	0.049	0.9814	0	94.0	79.4	128			
Xylenes, Total	2.8	0.098	2.944	0.02892	94.2	77.3	131			
Surr: 4-Bromofluorobenzene	0.98		0.9814		99.4	80	120			

Sample ID	1810334-002AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	SC-2		Batch ID:	40841		RunNo:	54705				
Prep Date:	10/5/2018		Analysis Date:	10/8/2018		SeqNo:	1815965		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.84	0.025	0.9843	0	85.6	68.5	133	0.461	20		
Toluene	0.91	0.049	0.9843	0.009701	91.5	75	130	0.567	20		
Ethylbenzene	0.94	0.049	0.9843	0	95.1	79.4	128	1.47	20		
Xylenes, Total	2.8	0.098	2.953	0.02892	94.2	77.3	131	0.242	20		
Surr: 4-Bromofluorobenzene	0.98		0.9843		100	80	120	0	0		

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified



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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1810334

RcptNo: 1

Received By: Anne Thorne

10/5/2018 7:50:00 AM

Am. Thorne

Completed By: Anne Thorne

10/5/2018 8:10:45 AM

Am. Thorne

Reviewed By: *LB*

10/5/18

Labeled by: Am 10/05/18

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. 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)

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

Person Notified:	<u>TK</u>	Date:	<u>10/05/18</u>	<u>Am. Thorne</u>
By Whom:	<u>AS</u>	Via:	<input type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input checked="" type="checkbox"/> Fax <input type="checkbox"/> In Person	
Regarding:	<u>SLC-3 collection forms</u>			
Client Instructions:	<u>1002</u>			

16. Additional remarks: *For TK per 10/05/18*

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 604 W Pinon St.

Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: tknight@animasenvironmental.com

QA/QC Package:

X Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Sampler: CL SJ

On Ice: ☒ Yes ☐ No

Sample Temperature: 64

Container Type and #

Preservative Type

HEAL No

Sample Request ID

Date

Time

Matrix

Sample Request ID

10/4/18

9:41

soil

SC-1

10/4/18

9:54

soil

SC-2

10/4/18

10:02

soil

SC-3

10/4/18

10:19

soil

SC-4

10/4/18

10:34

soil

SC-5

10/4/18

10:47

soil

SC-6

10/4/18

11:01

soil

SC-7

10/4/18

11:17

soil

SC-8

10/4/18

11:30

soil

SC-9

10/4/18

11:42

soil

SC-10

10/4/18

11:55

soil

SC-11

10/4/18

10:24

soil

Grab 1

10/4/18

12:02

soil

Grab 2

Date:

10/4/18

1624

Relinquished by:

10/4/18

1740

Relinquished by:

10/4/18

0750

Received by:

10/4/18

1624

Received by:

10/4/18

0750

Date

Time

Date

Time

Remarks: Please call with any questions

ANALYSIS REQUEST

X Standard ☐ Rush 24 TAT

Project Name:

DJR South Blanco 23-3

Project #:

Project Manager:

T. Knight

Sampler: CL SJ

On Ice: ☒ Yes ☐ No

Sample Temperature: 64

Container Type and #

Preservative Type

HEAL No

Sample Request ID

Date

Time

Matrix

Sample Request ID

10/4/18

9:41

soil

SC-1

10/4/18

9:54

soil

SC-2

10/4/18

10:02

soil

SC-3

10/4/18

10:19

soil

SC-4

10/4/18

10:34

soil

SC-5

10/4/18

10:47

soil

SC-6

10/4/18

11:01

soil

SC-7

10/4/18

11:17

soil

SC-8

10/4/18

11:30

soil

SC-9

10/4/18

11:42

soil

SC-10

10/4/18

11:55

soil

SC-11

10/4/18

10:24

soil

Grab 1

10/4/18

12:02

soil

Grab 2

Air Bubbles (Y or N)

8015M - DRO/GRO/MRO

8021B - BTEX

300.0 Chlorides

Analysis Request



HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



Analytical Report

Report Summary

Client: Animas Environmental Services
Chain Of Custody Number:
Samples Received: 10/29/2018 3:14:00PM
Job Number: 99083-0001
Work Order: P810127
Project Name/Location: South Blanco 23-3

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', written over a horizontal line.

Walter Hinchman, Laboratory Director

Date: 11/5/18

A handwritten signature in black ink, appearing to read 'Tim Cain', written over a horizontal line.

Tim Cain, Project Manager

Date: 11/5/18



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Base	P810127-01A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-01B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
Pad 1	P810127-02A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-02B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
Pad 2	P810127-03A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-03B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
Grab 3	P810127-04A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-04B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
Grab 4	P810127-05A	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.
	P810127-05B	Soil	10/29/18	10/29/18	Glass Jar, 4 oz.

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
---	---	-----------------------------

**Base
P810127-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	396	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Toluene	2050	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Ethylbenzene	500	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
p,m-Xylene	2120	200	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
o-Xylene	1070	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Total Xylenes	3200	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Total BTEX	6140	100	ug/kg	1	1844021	11/01/18	11/02/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1844021	11/01/18	11/02/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	44.0	20.0	mg/kg	1	1844021	11/01/18	11/02/18	EPA 8015D	
Diesel Range Organics (C10-C28)	1860	25.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	105	50.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		50-150	1844021	11/01/18	11/02/18	EPA 8015D	
Surrogate: n-Nonane		137 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	43.3	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/05/18 16:03

Pad 1
P810127-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1844021	11/01/18	11/03/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/01/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	91.8	25.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %		50-150	1844021	11/01/18	11/03/18	EPA 8015D	CV3
Surrogate: n-Nonane		101 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
---	---	-----------------------------

Pad 2
P810127-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1844021	11/01/18	11/03/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1844021	11/01/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	33.1	25.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1844026	11/02/18	11/02/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %		50-150	1844021	11/01/18	11/03/18	EPA 8015D	CV3
Surrogate: n-Nonane		99.4 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
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Grab 3
P810127-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Toluene	1910	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Ethylbenzene	5000	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
p,m-Xylene	24100	200	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
o-Xylene	9770	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total Xylenes	33800	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total BTEX	40700	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		117 %		50-150	1844021	11/01/18	11/03/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	364	20.0	mg/kg	1	1844021	11/01/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	5930	125	mg/kg	5	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	250	mg/kg	5	1844026	11/02/18	11/02/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		146 %		50-150	1844021	11/01/18	11/03/18	EPA 8015D	CV3
Surrogate: n-Nonane		245 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	Surr2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services	Project Name:	South Blanco 23-3	Reported: 11/05/18 16:03
624 E. Comanche St.	Project Number:	99083-0001	
Farmington NM, 87401-6815	Project Manager:	Tami Knight	

Grab 4

P810127-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Toluene	553	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Ethylbenzene	2180	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
p,m-Xylene	12100	200	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
o-Xylene	5170	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total Xylenes	17200	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Total BTEX	20000	100	ug/kg	1	1844021	11/01/18	11/03/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		118 %		50-150	1844021	11/01/18	11/03/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	266	20.0	mg/kg	1	1844021	11/01/18	11/03/18	EPA 8015D	
Diesel Range Organics (C10-C28)	8660	125	mg/kg	5	1844026	11/02/18	11/02/18	EPA 8015D	
Oil Range Organics (C28-C40+)	463	250	mg/kg	5	1844026	11/02/18	11/02/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		140 %		50-150	1844021	11/01/18	11/03/18	EPA 8015D	CV3
Surrogate: n-Nonane		239 %		50-200	1844026	11/02/18	11/02/18	EPA 8015D	Surr2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1844024	11/02/18	11/02/18	EPA 300.0/9056A	

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Animas Environmental Services	Project Name:	South Blanco 23-3	Reported: 11/05/18 16:03
624 E. Comanche St.	Project Number:	99083-0001	
Farmington NM, 87401-6815	Project Manager:	Tami Knight	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1844021 - Purge and Trap EPA 5030A

Blank (1844021-BLK1)

Prepared: 11/01/18 1 Analyzed: 11/02/18 2

Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8240		"	8000		103	50-150			

LCS (1844021-BS1)

Prepared: 11/01/18 1 Analyzed: 11/02/18 2

Benzene	5140	100	ug/kg	5000		103	70-130			
Toluene	5210	100	"	5000		104	70-130			
Ethylbenzene	5260	100	"	5000		105	70-130			
p,m-Xylene	10800	200	"	10000		108	70-130			
o-Xylene	5200	100	"	5000		104	70-130			
Total Xylenes	16000	100	"	15000		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8280		"	8000		103	50-150			

Matrix Spike (1844021-MS1)

Source: P810127-01

Prepared: 11/01/18 1 Analyzed: 11/02/18 0

Benzene	5120	100	ug/kg	5000	396	94.4	54.3-133			
Toluene	5900	100	"	5000	2050	77.1	61.4-130			
Ethylbenzene	5330	100	"	5000	500	96.5	61.4-133			
p,m-Xylene	11400	200	"	10000	2120	92.8	63.3-131			
o-Xylene	5560	100	"	5000	1070	89.7	63.3-131			
Total Xylenes	17000	100	"	15000	3200	91.7	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8200		"	8000		102	50-150			

Matrix Spike Dup (1844021-MSD1)

Source: P810127-01

Prepared: 11/01/18 1 Analyzed: 11/03/18 0

Benzene	5090	100	ug/kg	5000	396	93.9	54.3-133	0.471	20	
Toluene	5690	100	"	5000	2050	72.9	61.4-130	3.62	20	
Ethylbenzene	5270	100	"	5000	500	95.4	61.4-133	1.08	20	
p,m-Xylene	11100	200	"	10000	2120	90.2	63.3-131	2.27	20	
o-Xylene	5430	100	"	5000	1070	87.2	63.3-131	2.29	20	
Total Xylenes	16600	100	"	15000	3200	89.2	63.3-131	2.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8070		"	8000		101	50-150			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/05/18 16:03

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1844021 - Purge and Trap EPA 5030A										
Blank (1844021-BLK1)				Prepared: 11/01/18 1 Analyzed: 11/02/18 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		"	8.00		101	50-150			
LCS (1844021-BS2)				Prepared: 11/01/18 1 Analyzed: 11/02/18 2						
Gasoline Range Organics (C6-C10)	46.6	20.0	mg/kg	50.0		93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		"	8.00		102	50-150			
Matrix Spike (1844021-MS2)				Source: P810127-01		Prepared: 11/01/18 1 Analyzed: 11/03/18 0				
Gasoline Range Organics (C6-C10)	71.1	20.0	mg/kg	50.0	44.0	54.4	70-130			SPK 1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		"	8.00		104	50-150			
Matrix Spike Dup (1844021-MSD2)				Source: P810127-01		Prepared: 11/01/18 1 Analyzed: 11/03/18 0				
Gasoline Range Organics (C6-C10)	63.2	20.0	mg/kg	50.0	44.0	38.5	70-130	11.8	20	SPK 1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.24		"	8.00		103	50-150			

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/05/18 16:03

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1844026 - DRO Extraction EPA 3570										
Blank (1844026-BLK1)				Prepared: 11/02/18 0 Analyzed: 11/02/18 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	50.8		"	50.0		102	50-200			
LCS (1844026-BS1)				Prepared: 11/02/18 0 Analyzed: 11/02/18 1						
Diesel Range Organics (C10-C28)	445	25.0	mg/kg	500		89.0	38-132			
Surrogate: n-Nonane	48.4		"	50.0		96.9	50-200			
Matrix Spike (1844026-MS1)				Source: P811001-01		Prepared: 11/02/18 0 Analyzed: 11/02/18 1				
Diesel Range Organics (C10-C28)	437	25.0	mg/kg	500	ND	87.4	38-132			
Surrogate: n-Nonane	48.5		"	50.0		97.0	50-200			
Matrix Spike Dup (1844026-MSD1)				Source: P811001-01		Prepared: 11/02/18 0 Analyzed: 11/02/18 1				
Diesel Range Organics (C10-C28)	427	25.0	mg/kg	500	ND	85.3	38-132	2.35	20	
Surrogate: n-Nonane	48.7		"	50.0		97.3	50-200			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 99083-0001 Project Manager: Tami Knight	Reported: 11/05/18 16:03
---	---	-----------------------------

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1844024 - Anion Extraction EPA 300.0/9056A										
Blank (1844024-BLK1)				Prepared: 11/02/18 0 Analyzed: 11/02/18 1						
Chloride	ND	20.0	mg/kg							
LCS (1844024-BS1)				Prepared: 11/02/18 0 Analyzed: 11/02/18 1						
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1844024-MS1)				Source: P810127-01 Prepared: 11/02/18 0 Analyzed: 11/02/18 1						
Chloride	305	20.0	mg/kg	250	43.3	105	80-120			
Matrix Spike Dup (1844024-MSD1)				Source: P810127-01 Prepared: 11/02/18 0 Analyzed: 11/02/18 1						
Chloride	308	20.0	mg/kg	250	43.3	106	80-120	0.763	20	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 99083-0001
Project Manager: Tami Knight

Reported:
11/05/18 16:03

Notes and Definitions

Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

SPK1 The spike recovery is outside of quality control limits.

CV3 CV recovery was below quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: Animas Environmental Services

Samples Received: 5/1/2019

Job Number: 17035-0028

Work Order: P905007

Project Name/Location: South Blanco 23-3

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 5/6/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 17035-0028
Project Manager: Elizabeth McNally

Reported:
05/06/19 11:36

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1	P905007-01A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-01B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-2	P905007-02A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-02B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-3	P905007-03A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-03B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-4	P905007-04A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-04B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-5	P905007-05A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-05B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-6	P905007-06A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-06B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-7	P905007-07A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-07B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
SC-8	P905007-08A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-08B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
WASH GRB-3	P905007-09A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-09B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
WASH GRB-4	P905007-10A	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.
	P905007-10B	Soil	04/30/19	05/01/19	Glass Jar, 4 oz.

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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SC-1
P905007-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1918032	05/02/19	05/02/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/02/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %		50-150	1918032	05/02/19	05/02/19	EPA 8015D	
Surrogate: n-Nonane		98.0 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	238	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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SC-2
P905007-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
Surrogate: n-Nonane		91.4 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	64.7	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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SC-3

P905007-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.3 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
Surrogate: n-Nonane		88.9 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1990	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300 0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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SC-4
P905007-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
Surrogate: n-Nonane		88.2 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	382	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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SC-5
P905007-05 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1918032	05-02-19	05-03-19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %		50-150	1918032	05-02-19	05-03-19	EPA 8015D	
Surrogate: n-Nonane		87.6 %		50-200	1918033	05-02-19	05-03-19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 17035-0028
Project Manager: Elizabeth McNally

Reported:
05/06/19 11:36

SC-6
P905007-06 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
Surrogate: n-Nonane		84.4 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 17035-0028
Project Manager: Elizabeth McNally

Reported:
05/06/19 11:36

SC-7
P905007-07 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatiles Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.8 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
Surrogate: n-Nonane		90.9 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/02/19	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 17035-0028
Project Manager: Elizabeth McNally

Reported:
05/06/19 11:36

SC-8
P905007-08 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
Surrogate: n-Nonane		92.0 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	171	20.0	mg/kg	1	1918037	05/02/19	05/03/19	EPA 300.0/9056A	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 17035-0028
Project Manager: Elizabeth McNally

Reported:
05/06/19 11:36

WASH GRB-3
P905007-09 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1918032	05/02/19	05/03/19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	76.5	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.5 %		50-150	1918032	05/02/19	05/03/19	EPA 8015D	
Surrogate: n-Nonane		91.5 %		50-200	1918033	05/02/19	05/03/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/03/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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**WASH GRB-4
P905007-10 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	1918032	05-02-19	05-03-19	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1918032	05/02/19	05/03/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1918033	05/02/19	05/03/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %		50-150	1918032	05-02-19	05-03-19	EPA 8015D	
Surrogate: n-Nonane		88.6 %		50-200	1918033	05-02-19	05-03-19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1918037	05/02/19	05/03/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1918032 - Purge and Trap EPA 5030A										
Blank (1918032-BLK1)				Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.26		"	8.00		103	50-150			
LCS (1918032-BS1)				Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Benzene	4.66	0.0250	mg/kg	5.00		93.2	70-130			
Toluene	5.10	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.13	0.0250	"	5.00		103	70-130			
p,m-Xylene	10.6	0.0500	"	10.0		106	70-130			
o-Xylene	5.13	0.0250	"	5.00		103	70-130			
Total Xylenes	15.7	0.0250	"	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		"	8.00		102	50-150			
Matrix Spike (1918032-MS1)				Source: P905005-01 Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Benzene	4.49	0.0250	mg/kg	5.00	0.0309	89.1	54.3-133			
Toluene	5.37	0.0250	"	5.00	0.790	91.7	61.4-130			
Ethylbenzene	5.23	0.0250	"	5.00	0.315	98.3	61.4-133			
p,m-Xylene	16.0	0.0500	"	10.0	7.79	82.2	63.3-131			
o-Xylene	6.61	0.0250	"	5.00	2.10	90.3	63.3-131			
Total Xylenes	22.6	0.0250	"	15.0	9.89	84.9	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		"	8.00		96.2	50-150			
Matrix Spike Dup (1918032-MSD1)				Source: P905005-01 Prepared: 05/01/19 1 Analyzed: 05/02/19 1						
Benzene	4.40	0.0250	mg/kg	5.00	0.0309	87.4	54.3-133	1.87	20	
Toluene	5.30	0.0250	"	5.00	0.790	90.2	61.4-130	1.42	20	
Ethylbenzene	5.13	0.0250	"	5.00	0.315	96.3	61.4-133	1.97	20	
p,m-Xylene	15.5	0.0500	"	10.0	7.79	77.4	63.3-131	3.05	20	
o-Xylene	6.41	0.0250	"	5.00	2.10	86.3	63.3-131	3.05	20	
Total Xylenes	21.9	0.0250	"	15.0	9.89	80.3	63.3-131	3.05	20	
Surrogate: 4-Bromochlorobenzene-PID	7.58		"	8.00		94.7	50-150			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1918032 - Purge and Trap EPA 5030A										
Blank (1918032-BLK1)				Prepared: 05/01/19 Analyzed: 05/02/19						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		"	8.00		94.7	50-150			
LCS (1918032-BS2)				Prepared: 05/01/19 Analyzed: 05/02/19						
Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		"	8.00		96.2	50-150			
Matrix Spike (1918032-MS2)				Source: P905005-01		Prepared: 05/01/19 Analyzed: 05/02/19				
Gasoline Range Organics (C6-C10)	138	20.0	mg/kg	50.0	123	30.3	70-130			SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		"	8.00		101	50-150			
Matrix Spike Dup (1918032-MSD2)				Source: P905005-01		Prepared: 05/01/19 Analyzed: 05/02/19				
Gasoline Range Organics (C6-C10)	135	20.0	mg/kg	50.0	123	24.0	70-130	2.31	20	SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1918033 - DRO Extraction EPA 3570										
Blank (1918033-BLK1)				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	45.7		"	50.0		91.4	50-200			
LCS (1918033-BS1)				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500		95.2	38-132			
Surrogate: n-Nonane	44.4		"	50.0		88.9	50-200			
Matrix Spike (1918033-MS1)				Source: P905005-01		Prepared: 05/02/19 0 Analyzed: 05/02/19 1				
Diesel Range Organics (C10-C28)	1180	25.0	mg/kg	500	767	81.6	38-132			
Surrogate: n-Nonane	54.2		"	50.0		108	50-200			
Matrix Spike Dup (1918033-MSD1)				Source: P905005-01		Prepared: 05/02/19 0 Analyzed: 05/02/19 1				
Diesel Range Organics (C10-C28)	1140	25.0	mg/kg	500	767	74.3	38-132	3.18	20	
Surrogate: n-Nonane	51.5		"	50.0		103	50-200			

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 05/06/19 11:36
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1918037 - Anion Extraction EPA 300.0/9056A										
Blank (1918037-BLK1)				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1918037-BS1)				Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Chloride	243	20.0	mg/kg	250		97.1	90-110			
Matrix Spike (1918037-MS1)				Source: P904133-01 Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Chloride	437	20.0	mg/kg	250	186	101	80-120			
Matrix Spike Dup (1918037-MSD1)				Source: P904133-01 Prepared: 05/02/19 0 Analyzed: 05/02/19 1						
Chloride	440	20.0	mg/kg	250	186	102	80-120	0.718	20	

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Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 17035-0028
Project Manager: Elizabeth McNally

Reported:
05/06/19 11:36

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Project Information				Report Attention		Lab Use Only		TAT		EPA Program		
Client: AES				Bill To DJR		Lab WO#	Job Number	1D	3D	RCRA	SDWA	
Project: South Blanco 23-3				Attention: Amy Archuleta: 5-1-19		905007	17635-0028					
Project Manager: Eliz. McNally/D. Reese				Address: 1 Road 3263		Analysis and Method						
Address: 624 E. Comanche St.				City, State, Zip: Aztec, NM 87410		State						
City, State, Zip: Farmington, NM 87401				Phone: 505-564-2281		NM CO UT AZ						
Email: emcnally@animasenvironmental.com; greg.brame@animasenvironmental.com				Email: aarchuleta@dlrllc.com		Remarks						
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1
11:50	30-Apr-2019	S	2	SC-1	1	X	X	X		X		
11:59	30-Apr-2019	S	2	SC-2	2	X	X	X		X		
13:03	30-Apr-2019	S	2	SC-3	3	X	X	X		X		
13:22	30-Apr-2019	S	2	SC-4	4	X	X	X		X		
13:16	30-Apr-2019	S	2	SC-5	5	X	X	X		X		
13:30	30-Apr-2019	S	2	SC-6	6	X	X	X		X		
13:26	30-Apr-2019	S	2	SC-7	7	X	X	X		X		
13:09	30-Apr-2019	S	2	SC-8	8	X	X	X		X		
13:45	30-Apr-2019	S	2	GRB-3	9	X	X	X		X		
13:50	30-Apr-2019	S	2	GRB-4	10	X	X	X		X		

Additional Instructions:

Bill to DJR

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Greg Brame

Relinquished by: (Signature) *[Signature]* Date 5/1/19 Time 4:45 pm
 Relinquished by: (Signature) *[Signature]* Date 5-1-19 Time 4:45 pm

Received by: (Signature) *[Signature]* Date 5-1-19 Time 4:45 pm
 Received by: (Signature) *[Signature]* Date 5-1-19 Time 4:45 pm

Lab Use Only
 Received on ice: *[initials]* N
 T1 T2 T3
 AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Analytical Report

Report Summary

Client: Animas Environmental Services

Samples Received: 5/31/2019

Job Number: 17035-0028

Work Order: P905097

Project Name/Location: South Blanco 23-3

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 6/4/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Animas Environmental Services
624 E. Comanche St.
Farmington NM, 87401-6815

Project Name: South Blanco 23-3
Project Number: 17035-0028
Project Manager: Elizabeth McNally

Reported:
06/04/19 17:03

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-1 (Upper)	P905097-01A	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
	P905097-01B	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
	P905097-01C	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
SC-2 (Lower)	P905097-02A	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
	P905097-02B	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.
	P905097-02C	Soil	05/31/19	05/31/19	Glass Jar, 8 oz.

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 06/04/19 17:03
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SC-1 (Upper)
P905097-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	523	20.0	mg/kg	1	1923001	06/03/19	06/03/19	EPA 300.0/9056A	

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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 06/04/19 17:03
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SC-2 (Lower)
P905097-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Anions by 300.0/9056A

Chloride	566	20.0	mg/kg	1	1923001	06/03/19	06/03/19	EPA 300.0/9056A	
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Animas Environmental Services 624 E. Comanche St. Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 06/04/19 17:03
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Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1923001 - Anion Extraction EPA 300.0/9056A										
Blank (1923001-BLK1)				Prepared: 06/03/19 0 Analyzed: 06/03/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1923001-BS1)				Prepared: 06/03/19 0 Analyzed: 06/03/19 1						
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1923001-MS1)				Source: P905097-01 Prepared: 06/03/19 0 Analyzed: 06/03/19 1						
Chloride	811	20.0	mg/kg	250	523	115	80-120			
Matrix Spike Dup (1923001-MSD1)				Source: P905097-01 Prepared: 06/03/19 0 Analyzed: 06/03/19 2						
Chloride	841	20.0	mg/kg	250	523	127	80-120	3.64	20	SPK1

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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Animas Environmental Services 624 E. Comanche St Farmington NM, 87401-6815	Project Name: South Blanco 23-3 Project Number: 17035-0028 Project Manager: Elizabeth McNally	Reported: 06/04/19 17:03
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Notes and Definitions

SPK1	The spike recovery is outside of quality control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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EPA Program

Bill To DJR

Attention: Amy Archuleta

Address: 1 Road 3263

City. State. Zip: Aztec, NM 87410

Phone: 505-632-3476

Email: aarchuleta@dirllc.com

Additional Instructions:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

10

3

Time

Container Type: g - glass n - poly/plastic ag - amber glass v - VNA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above

Sample Matrix:	S - Soil; A - Air; W - Water; Sg - Sludge; R - Residue; P - Paint; Pl - Plastic; L - Liner; G - Gas; O - Other
Contaminant:	Type(s) of Contaminant: Physical Properties: Boiling Point, Melting Point, Vapor Pressure, etc.
Concentration:	% or mg/l or ppm or ppb or %w/w or %v/v or mg/kg or µg/g or µg/l or ng/g or ng/l or ppt or parts per trillion



<p>Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.</p>			
<p>Time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Greg Broom</u></p>			
Relinquished by: (Signature) <u>Greg Broom</u>	Date 5-31-19	Time 13:12	Received by: (Signature) <u>Jessie A. Maff</u> Date 5/31/19 Time 13:12
Relinquished by: (Signature)	Date	Time	Received by: (Signature) Date Time
<p>Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other</p>		<p>Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</p>	
<p>Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.</p>			