Form C-141 Page 3

# State of New Mexico Oil Conservation Division

Incident ID	NCS1931842879
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?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	X Yes □ 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)?	☐ Yes 🏻 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🔀 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?	☐ Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes 🔀 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver- contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> <li>Topographic/Aerial maps</li> </ul>	S.

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.

X Laboratory data including chain of custody

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# State of New Mexico Oil Conservation Division

Incident ID	NCS1931842879	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Kijun Hong Signature: email: khong@harvestmidstream.com	Title: Environmental Specialist  Date: 5/20/200  Telephone: 505-632-4475
OCD Only	
Received by:	Date:

Form C-141 Page 5

# State of New Mexico Oil Conservation Division

Incident ID	NCS1931842879
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following tiems 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.
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: Kijun Hong  Title: Environmental Specialist
Signature: Date: 5/20/20
email: khong@harvestmidstream.com Telephone: 505-632-4475
OCD Only
Received by: Date:
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:



April 29, 2020

Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos
Aztec, New Mexico 87410

Via electronic mail: <a href="mailto:cory.smith@state.nm.us">cory.smith@state.nm.us</a>

RE: Site Delineation and Preliminary Remediation Report
Trunk S Release (June 2019)
3RP-1014; Incident #NCS1931842879
Unit I, Section 7, T25N, R3W
Rio Arriba County, New Mexico

Dear Mr. Smith:

Animas Environmental Services, LLC (AES) has prepared this Site Delineation and Preliminary Remediation Report for a release which was discovered June 25, 2019, at the Harvest Four Corners (Harvest) Trunk S natural gas pipeline, located in Rio Arriba County, New Mexico. A topographic site location map is included as Figure 1, and an aerial site map is presented as Figure 2.

#### 1.0 Release Description

The June 2019 release consisted of at least 25 barrels (bbls) of condensate and 278.5 MCF of natural gas. The source of the release was a subsurface pipeline leak. Approximately 2,000 cubic yards (yd³) were excavated and transported off-site for disposal. Additional excavated overburden was temporarily stockpiled on-site. The excavation dimensions were reported to be 25 ft by 35 ft by 52 ft deep; however, because of the depth of the excavation, it was not possible to complete removal of all impacted soils safely. The excavation was subsequently suspended and backfilled. The pipeline was repaired and is currently back in service.

#### 2.0 NMOCD Ranking

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

- Depth to Groundwater: A New Mexico Office of the State Engineer (NMOSE) SJ-01305 well record reported groundwater at 285 ft below ground surface (bgs).
- Sensitive Receptor Determination: The site is within 300 feet (ft) of a significant water course/drainage, whereby releases must be treated as if they occur less than 50 ft bgs to groundwater (NMAC 19.15.29.12C.4).

#### Closure Criteria are:

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

Site ranking information is included as an attachment.

#### 3.0 Initial Field Sampling (July 2019)

During the initial release response and excavation work in early July 2019, three soil samples were collected by LT Environmental from the surface (1 ft), wall (15 ft) and floor (30 ft) for field screening volatile organic compounds (VOCs) and for laboratory analysis of BTEX, TPH (GRO, DRO, and MRO) and chlorides. Additionally, shallow soil samples were collected from (1 ft) and 5 ft depths at two potholing locations, PHO1 and PHO2. Two upgradient surface samples, UGO1 and UGO2, were also collected for field screening and laboratory analysis. Analytical results indicated that concentrations above closure criteria were as follows:

- Benzene 40 mg/kg (wall 15 ft);
- Total BTEX 1,236 mg/kg (wall 15 ft);
- TPH (GRO, MRO, DRO) 17,400 mg/kg (wall 15 ft) and 230 mg/kg (floor 30 ft);
   and
- Chlorides exceeded in 6 of 9 samples with the highest concentration reported at 4,900 mg/kg from just below surface (1 ft) at the excavation.

July field screening and associated laboratory analytical results are included in Table 1. Sample locations are included on Figure 2. Note that excavated soils consisted of poorly graded light brown to tan well fine-grained sand.

### 4.0 Soil Boring Installation

#### 4.1 SB-1 Installation, November 2019

MW Electric completed one boring (SB-1) over the four days onsite to a total depth of 60 ft bgs. Split spoon soil samples were collected at 5-foot intervals for field screening and analytical sample collection. Four soil samples were collected from SB-1 and were

analyzed by Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Field sampling and laboratory analytical results are included in Table 1. Copies of the Hall laboratory reports are attached.

The boring SB-1 was completed as a soil vapor extraction (SVE) well, with 10 feet of screen terminating at 50 feet bgs. A soil boring log with SVE construction details is attached. Drilling activities were suspended after installation of SB-1 due to mechanical issues with the drilling rig and due to weather related safety issues.

#### 4.2 SB-2 through SB-11 Installation, March 2020

AES and Harvest concluded that an alternate drilling contractor would need to be utilized to complete the delineation work. AES scheduled Rodgers & Co. Drilling (Rodgers) for the week of March 9, 2020. Photographs of the drilling activities are attached.

Rodgers completed 10 soil borings (SB-2 through SB-11) over 8 days, from March 9 to March 16, 2020. Soil borings were installed to depths of 29 ft bgs (SB-6 and SB-8 through SB-11), 34 ft bgs (SB-7), 53 ft bgs (SB-4), 55 ft bgs (SB-3), and 59 ft bgs (SB-2 and SB-5). Boring locations were chosen to intersect the excavation area (SB-1 through SB-5), but the borings also had to maintain a 10-ft safe distance from the pipeline running through the middle of the former excavation. The borings were placed as follows:

- SB-1 was placed near the center of the excavation area;
- SB-2 through SB-5 were placed on each corner of the excavation area; and
- SB-6 through SB-11 were completed as step-out confirmation borings.

Note that SB-6 through SB-9 locations were placed approximately along the midpoint between borings SB-2 through SB-5 and 10 feet away in each direction. SB-10 and SB-11 were placed as secondary step out locations to the east and to the south. Soil boring locations are included on Figure 3.

Soil borings SB-1 through SB-5 were completed as SVE wells, with 10 to 15 ft of screen. Soil borings SB-6 though SB-11 were backfilled after boring completion and collection of soil samples. Soil boring logs and well completion diagrams are attached. All SVE wells were permitted with NMOSE on March 5, 2020, and the permit is attached.

Generally, shallow soils consist of well graded silty to coarse sands with interbedded clays layers of varying plasticity. A very hard sandstone layer exists at a depth of approximately 30 ft but was not encountered at every location. Soil boring SB-1 was installed as close to the middle of the excavation as could be done safely with the

proximity to the active pipeline. Soils encountered in SB-1 were loose and appeared to be fill down to a depth of approximately 45 ft, which is consistent with conditions of the previous excavation and backfill. Below 45 ft, drilling became much more difficult, and soil samples were more cemented. Soil borings SB-2 through SB-5 were installed near the corners of the previously excavated area and appeared to have intersected both fill material and native material at approximately 12 to 19 ft bgs. Groundwater was not encountered in any of the soil borings that were installed. A geological cross section is included as Figure 4.

#### 4.3 Field Screening and Results

AES collected soil samples for field screening and laboratory analysis from all soil borings. Field screening was performed at 5-ft intervals at SB-1. Soil borings SB-2 through SB-11 were continuously cored for the depth of each boring.

#### 4.3.1 Field VOCs

Field screening for organic vapors was performed using the heated headspace method. One heated headspace sample for screening with a photo-ionization detector (PID) organic vapor meter (OVM) was taken from each 5-foot interval. Prior to field screening, the PID-OVM was calibrated in accordance with manufacturer's specifications. Soil sample collection for heated headspace analysis was performed by placing soil in clean and decontaminated 16 oz glass jars, sealed with new aluminum foil and a lid ring. Once each jar was heated and gently shaken so that vapors were released from the soil inside, the OVM probe tip was placed through the aluminum foil so that VOC readings could be recorded. Field screening results presented on each soil boring log.

The highest OVM readings (>100 ppm) from each boring with corresponding depths are listed below:

- SB-1: 3,426 ppm (15 ft bgs);
- SB-2: 7,672 ppm (29 ft bgs);
- SB-3: 10,035 ppm (49 ft bgs);
- SB-4: 398.7 ppm (39 ft bgs);
- SB-5: 397.2 ppm (34 ft bgs);
- SB-6: 119.8 ppm (19 ft bgs); and
- SB-7: 171.3 ppm (19 ft bgs).

#### 4.3.2 Chlorides

Chloride concentrations in soil samples were evaluated in the field using Hach test kits (Model CD-51). Field chlorides ranged from 20 to 60 mg/kg in all samples. The highest field chloride concentrations from each boring are listed below:

- SB-1: 60 mg/kg at 20, 34, 45 ft bgs;
- SB-2: 40 mg/kg at 10, 15, 20, 45, 50, 55 and 60 ft bgs;
- SB-3: 40 mg/kg at all sample intervals 5 to 55 ft bgs;
- SB-4: 40 mg/kg at all sample intervals 10 to 55 ft bgs;
- SB-5: 60 mg/kg at 5 ft bgs;
- SB-6: 40 mg/kg at all sample intervals 5 to 30 ft bgs; and
- SB-7: 40 mg/kg at all sample intervals 10 to 35 ft bgs.

Field screening OVM and field chloride results are included on the attached soil boring logs. Field chloride measurements are also presented on Figure 4A.

#### 4.4 Soil Laboratory Analyses

Two to four samples from each boring were submitted for laboratory analysis. Samples were placed in new, clean, laboratory-supplied containers, labeled, placed on ice, and logged onto a sample chain of custody record. The samples were maintained on ice until delivery to Hall. Soil samples were analyzed for the following USEPA Methods:

- BTEX per USEPA Method 8021B;
- TPH (GRO/DRO/MRO) per USEPA Method 8015M; and
- Chloride per USEPA Method 300.0.

#### 4.5 Soil Analytical Results

Soil analytical data indicates that the remaining contaminant mass is located within the previously excavated area (SB-1 through SB-5). All step out borings (SB-6 through SB-11) were below NMOCD action levels or laboratory detection limits for all analytes. Analytical data showed the following exceedances for benzene, total BTEX, and TPH:

- SB-1 at 15 ft bgs exceeded NMOCD action levels for benzene (14 mg/kg), total BTEX (890 mg/kg) and total TPH (16,000 mg/kg); and
- SB-3 at 49 ft bgs exceeded NMOCD action levels for total BTEX (62.6 mg/kg) and combined TPH (2,270 mg/kg).

NMOCD action levels were not exceeded at any other intervals in any other soil boring locations. Laboratory analytical results for chlorides from all borings (November 2019 and March 2020) were well below the NMOCD action level of 600 mg/kg. Laboratory analytical results are summarized and presented in Table 1 and Figures 3A and 4A. Copies of the Hall laboratory reports are attached.

#### 4.6 Shallow Soil Chloride Sampling and Analytical Results

Hand auger borings were advanced on March 18, 2020, to investigate potentially chloride impacted shallow soils. Samples were collected from the surface (1 ft bgs) and

at 3 ft bgs from an undisturbed background location located northwest of the release area. One upgradient hand boring was located to the south of the evaporation pond along a surface drainage pathway leading from the pond. Samples were collected from the surface (1 ft bgs) and at 5 ft bgs for chlorides analysis. In addition, a four-point composite sample was collected from the stockpiled soil. Chloride sample locations are included on Figures 3 and 3A.

Samples were placed in new, clean, laboratory-supplied containers, labeled, placed on ice, and logged onto a sample chain of custody record. The samples were maintained on ice until delivery to Hall. Soil samples were analyzed for chlorides per USEPA Method 300.0 as well as for additional anion/cation parameters, including fluoride, sulfate, conductivity, calcium, magnesium, potassium, sodium, and alkalinity.

Chloride concentrations from the stockpiled soil and background samples were below the action levels for chlorides. However, the upgradient samples located along a surface drainage pathway leading from the evaporation pond towards the Harvest release area exceeded the NMOCD action level, with 2,600 mg/kg (Upgradient @ 1 ft bgs) and 1,300 mg/kg (Upgradient @ 5 ft bgs).

Laboratory analytical results are summarized and presented in Table 1 and on Figures 3A and 4A. A copy of the Hall laboratory report is attached.

#### 5.0 Remediation System

Based on the results of the site delineation activities, Harvest is proceeding with implementing SVE to volatilize and remove contaminants through desorption of contaminants from the surface of soil particles, and through biodegradation of contaminants by moving air through subsurface soil pore spaces.

#### 5.1 SVE Wells

Based upon the results and observations from the site during soil boring installation, five borings were completed as SVE wells (SB-1 through SB-5). The SVE wells were completed with 10 ft of 0.010-inch of Schedule 40 PVC screen, except for SB-4 and SB-5, which were completed with 15 ft of 0.010-inch Schedule 40 PVC. Annular space in each SVE well was filled with 10-20 silica sand from the base of the SVE well up to at least 2 ft above the top of the screened interval. A hydrated bentonite seal, approximately 2 feet thick, was placed above the sand. Neat Portland cement grout was placed up to the surface.

#### 5.2 SVE System

Harvest Midstream has purchased a Varisolar SVE unit which will be installed at the site to facilitate removal of the remaining VOCs contamination from the pipeline release. System specifications include the following:

- 4.6 HP vacuum blower capable of up to 190 cfm @ 50 inches of water vacuum;
- 60-gallon steel knock out tank;
- Vapor/moisture separator with high level shut off switch;
- A 6 well manifold constructed of 2-inch SCH 80 PVC with ball valves to allow for adjustable flows to each well; vacuum gauges and sample ports;
- Telemetry unit;
- Solar panel array; and
- Freeze protection circuit to allow for all season operation.

The system will be staged near the SVE well field, and the conveyance piping will be installed aboveground for the summer season. An SVE manifold will be constructed to allow for collection of flow rate data, vacuum and vapor samples. Wellheads will be constructed to allow for collection of wellhead vacuum, and vapor samples. Granular activated carbon vessels will be used to process effluent soil vapor before it is discharged.

System construction will begin with installation of four concrete footers for the SVE skid to be mounted on. Once the concrete has cured and the system is delivered and placed at the site, conveyance piping can be installed. The site is in an area that doesn't receive traffic and has an active pipeline running through the center of the well field; therefore, above ground conveyance piping will be installed.

A proposed remediation site layout is included as Figure 5, and manufacturer's information for the Varisolar SVE unit is also included as an attachment.

#### 5.3 System Monitoring and Sampling

Harvest and AES will maintain SVE runtime greater than or equal to 90 percent per quarter. A soil gas sample for laboratory analysis will be collected shortly after initial startup of SVE operations and then a quarterly thereafter. The gas sample will be analyzed for:

- Volatile organics per USEPA Method 8260 Full List; and
- Carbon dioxide and oxygen per GPA 2261.

The gas sample port will be installed on the manifold prior to the inlet of the vacuum pump but after the convergence of all vapor streams. Harvest and AES will submit a

quarterly progress report detailing remediation operations to NMOCD. The report will include at a minimum:

- Summary of remediation activity for the quarter;
- SVE run time, SVE mass removal, and product recovery (if applicable); and
- Gas sample analytical data.

#### 6.0 Deliverables

After the remediation system is installed and startup is complete, AES will begin preparation of a System Installation As-Built Report. The report will be submitted within 60-days of system startup. The report will include the following at a minimum:

- Discussion of installation and startup activities;
- System design specifications;
- A site map detailing equipment placement, well field and conveyance piping layouts;
- A map featuring approximate radius of vacuum influence;
- Startup data including well head and manifold vacuums, flow rates, PID data from both well head and system manifold;
- Analytical data for startup samples;
- Initial removal rates; and
- Photographs of the SVE system.

#### 7.0 Conclusions and Recommendations.

#### 7.1 Conclusions

A release was confirmed at the Harvest Trunk S pipeline in June 2019 in which approximately 25 bbls of condensate were released along with 278.5 MCF of natural gas. The release occurred on private property owned by Tony and Craig Schmitz (TNT Landfarm). Based on site ranking, action levels were determined to be 10 mg/kg benzene, 50 mg/kg total BTEX, 100 mg/kg TPH, and 600 mg/kg chlorides.

Following the release, a limited excavation was completed and approximately 2,000 yd<sup>3</sup> were excavated and transported off-site for disposal. Additional excavated overburden was temporarily stockpiled on-site. Final excavation dimensions were reported to be 25 ft by 35 ft by 52 ft deep; however, it was not possible to safely remove remaining impacted soils. The pipeline was repaired and returned to service.

AES completed site delineation of the release area, the excavation extents, and outside the excavation area in November 2019 and March 2020. As part of site delineation activities, a total of 11 soil borings (SB-1 through SB-11) were advanced at the site, with total depths ranging from 29 ft to 59 ft bgs. Soils consisted of well graded silty to coarse sands with interbedded clays layers of varying plasticity. A very hard sandstone layer was noted at approximately 30 ft bgs in some of the borings. Groundwater was not encountered during the site delineation activities. Five of the borings were completed as SVE wells and will be incorporated into the SVE system to be installed at the site in May 2020.

Residual soil concentrations exceeding NMOCD action levels were noted at the edges of the previous soil excavation in SB-1 at 15 ft bgs, with benzene (14 mg/kg), total BTEX (890 mg/kg) and total TPH (16,000 mg/kg); and in SB-3 at 49 ft bgs, with total BTEX (62.6 mg/kg) and combined TPH (2,270 mg/kg). Laboratory analytical results from SB-2, SB-4, and SB-5 (within the footprint of the former excavation area) were all below NMOCD action levels. Additionally, all other laboratory analytical results from step out borings (SB-6 through SB-11) were below applicable NMOCD action levels for benzene, total BTEX, and TPH. Vertical and lateral extents of the June 2019 release appear to be defined for benzene, total BTEX and TPH.

Chloride concentrations did *not* exceed the NMOCD action level of 600 mg/kg in excavation wall or floor samples (July 2019) or in SB-1 through SB-11 (November 2019 and March 2020). However, in July 2019, several surface samples and near surface samples were collected by LT Environmental both upgradient of the release area (UG01, UG02, and PH01) and downgradient of the release area (PH02) along an area of surface drainage to the south-southeast. Chloride concentrations for the surface/near surface in July 2019 exceeded the NMOCD action level of 600 mg/kg, with concentrations ranging from 1,300 mg/kg to 3,300 mg/kg chlorides. A surface sample from the release area had 4,900 mg/kg chloride; however, however this area was within the excavation footprint, and these soils were removed from the site for off-site disposal.

Additional shallow soil samples were collected for chlorides analysis outside the release area in March 2020, including a background sample and an upgradient location draining from the evaporation pond area. A 4-point composite sample was also collected from the stockpiled soil. Results of the additional chloride sampling showed that background samples had chloride concentrations of 310 mg/kg (1 ft bgs) and 340 mg/kg (5 ft bgs); however, the concentrations from the area upgradient of the release but below the evaporation pond were reported as 2,600 mg/kg (1 ft bgs) and 1,300 mg/kg (5 ft bgs). Stockpiled soil chloride concentrations were reported as 180 mg/kg, which is below the action level of 600 mg/kg chloride.

#### 7.2 Recommendations

Based on the results of the site delineation, AES makes the following recommendations:

- In order to address residual petroleum contaminant impacts from soils and vapors within the former release area, borings located within the former excavation area (SB-1 through SB-5) were completed as SVE wells and will be incorporated into the SVE system.
- For chlorides at the release area, the area of elevated chloride concentrations at the surface (4,900 mg/kg) was excavated and removed for off-site disposal in July 2019. Subsurface chloride concentrations from site delineation borings (SB-1 through SB-11) were all well below action levels, and no further action is recommended in the release area relating to chlorides.
- For chlorides in surface and near surface soils upgradient of the release area, concentrations above the NMOCD action level of 600 mg/kg were noted in samples from July 2019 and March 2020. These elevated chloride concentrations appear to be related to the presence of the upgradient evaporation ponds and may be associated with migrating overspray. Mitigation efforts for elevated chloride concentrations should be coordinated through the existing TNT facility permits and maintenance activities.
- For the stockpiled soil, contaminant concentrations for benzene, total BTEX, TPH and chlorides were all below NMOCD action levels, and no further action is recommended. Harvest will coordinate with property owners to finalize disposition of the stockpiled soil.

## 8.0 Project Schedule

For continuing site work, AES anticipates the following schedule:

April 2020 The VariSun SVE system was delivered to AES.

May 2020 Mobilize to the site and begin system setup work during

the week of May 11, 2020. System installation should take 5 to 7 days to complete, including time for the concrete footers to cure. System startup will be performed immediately following construction. Startup and

shakedown activities should require approximately 2 to 3

days onsite.

June 2020 Prepare and submit SVE system installation report along

with startup monitoring and sampling results.

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

Sincerely,

Edward Hubbert Project Manager

Elman ( That I

Elizabeth McNally, P.E.

Elizabeth V McNolly

#### Attachments:

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map with July 2019 Sample Locations

Figure 3. Soil Boring Location and Sampling Results Map

Figure 3A. Soil Boring Location and Chloride Sampling Results Map

Figure 4. Geologic Cross-Section

Figure 4A. Geologic Cross-Section with Chloride Results

Figure 5. Proposed Site Remediation Layout

Table 1. Soil Analytical Results

Table 2. Soil Anion/Cation Results

Photographic Log

Soil Boring Logs and SVE Well Construction Schematics - SB-1 through SB-11

**Site Ranking Information** 

NMOSE Permit to Drill a Well(s) with No Water Right — SJ-4380 POD1-POD9

Hall Analytical Reports 1907148, 1911A22, 1911D02, 2003514, 2003649, 2003651,

2003679, 2003860, and 2003897

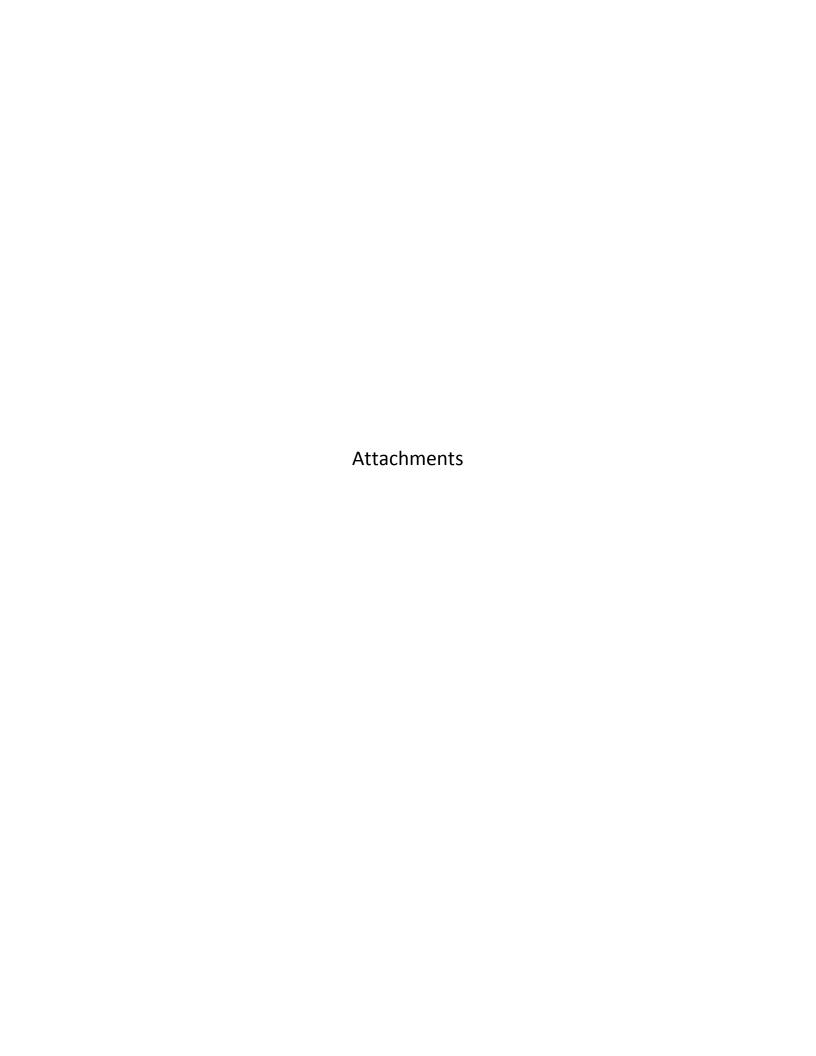
Varisolar SVE System Manufacturer's Information

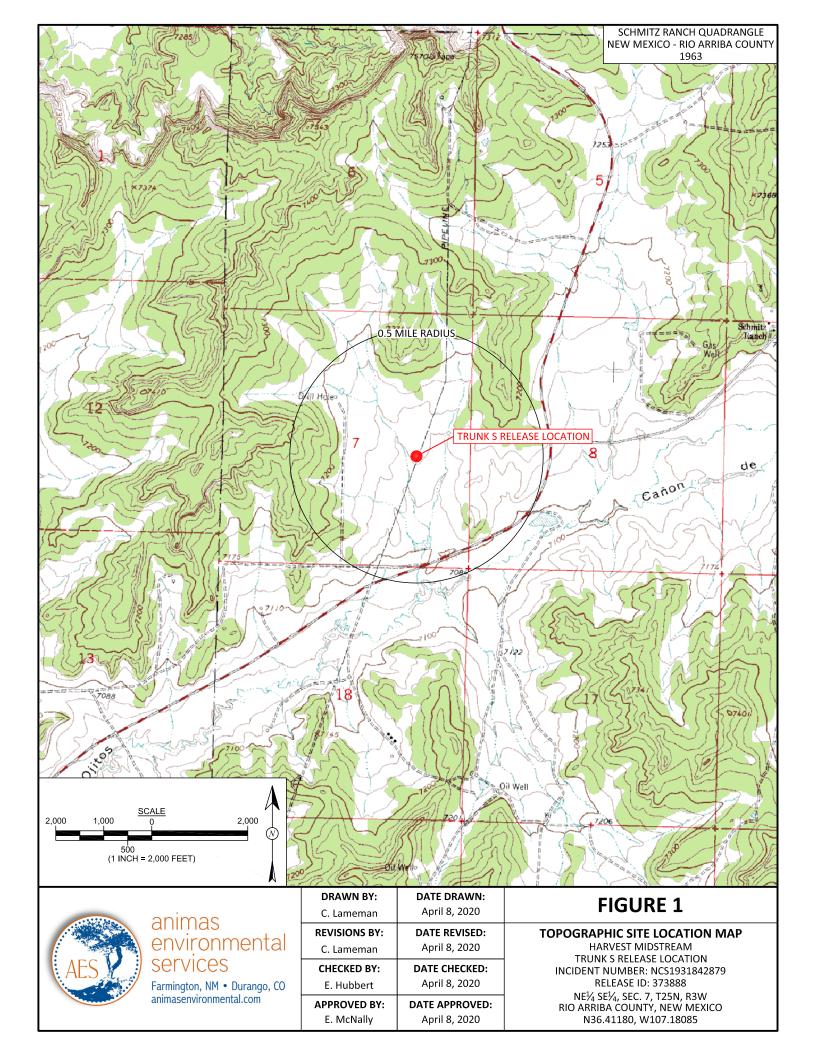
Kijun Hong Harvest Trunk S Release (3RP-1014; Incident #1931842879) April 29, 2020; Page 12 of 12

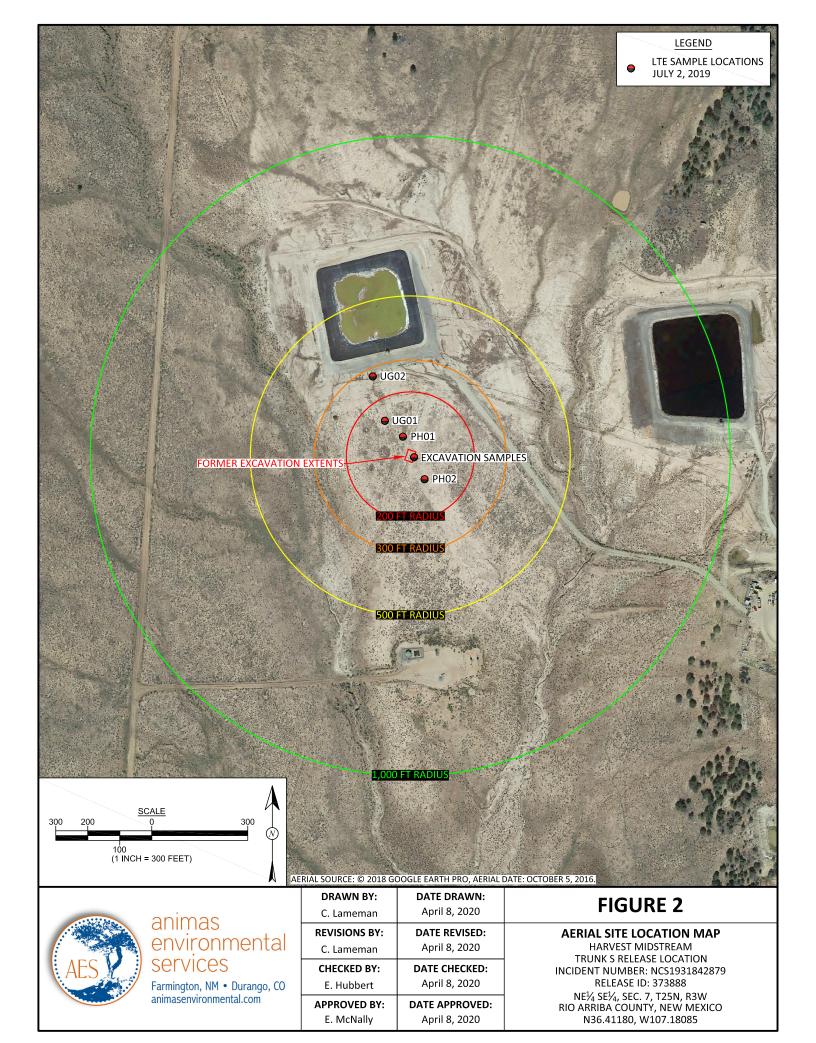
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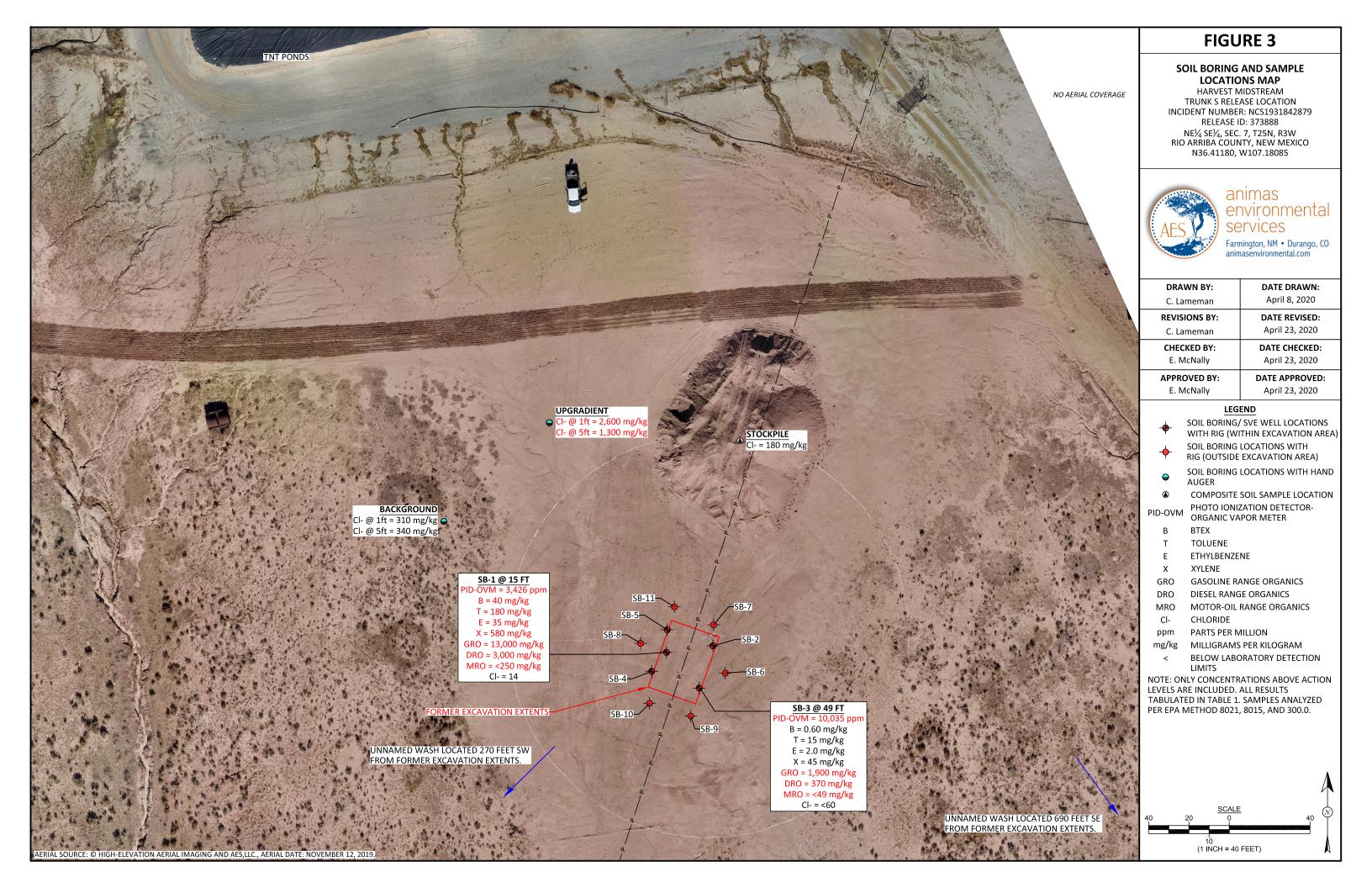
Kijun Hong Harvest Midstream Company

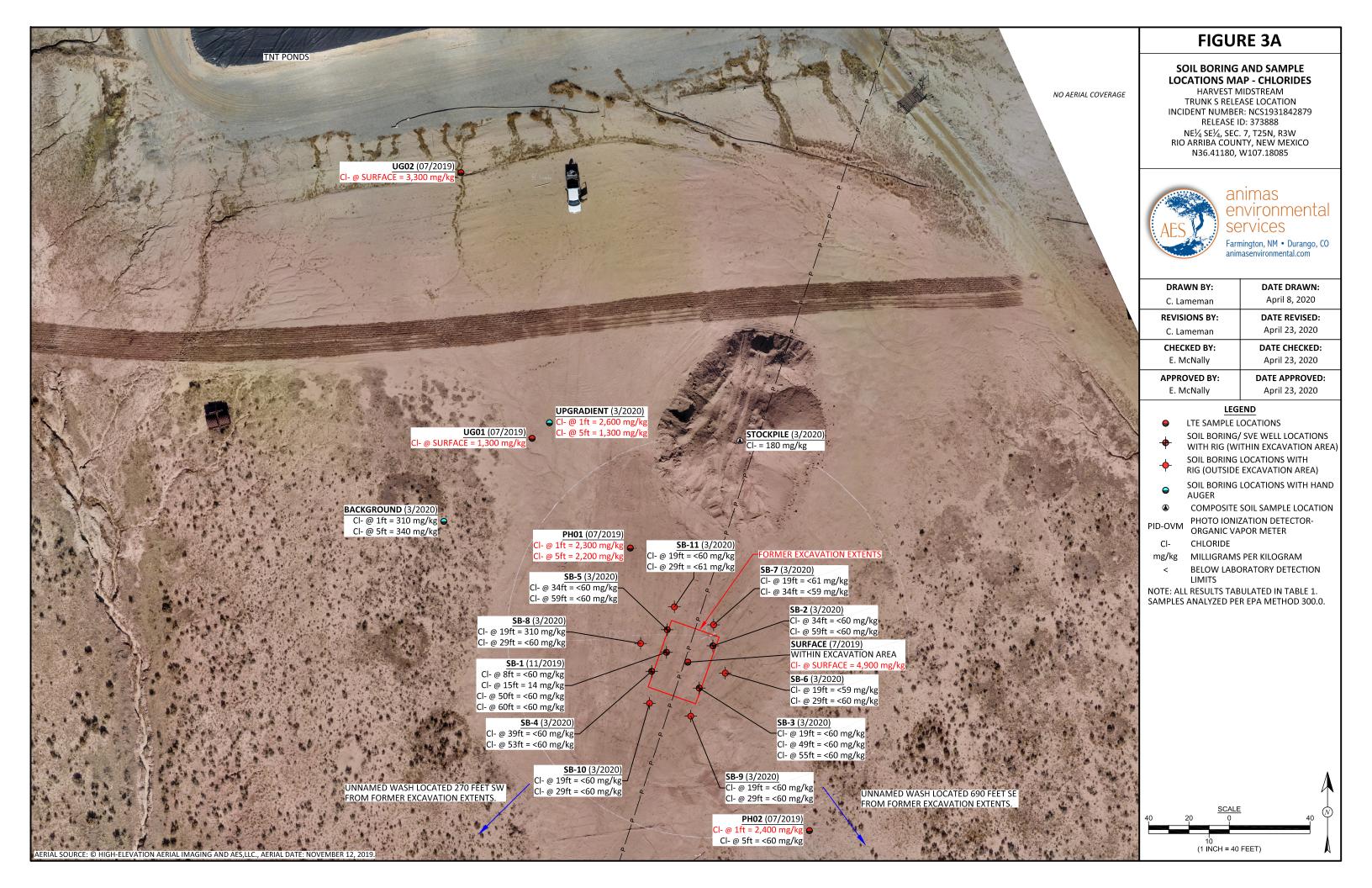
Electronic Mail: <u>khonq@harvestmidstream.com</u>

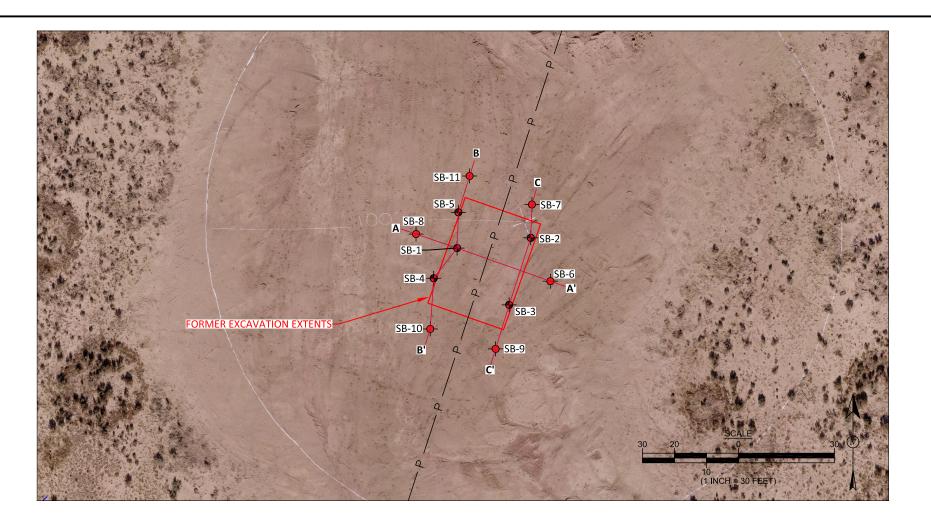


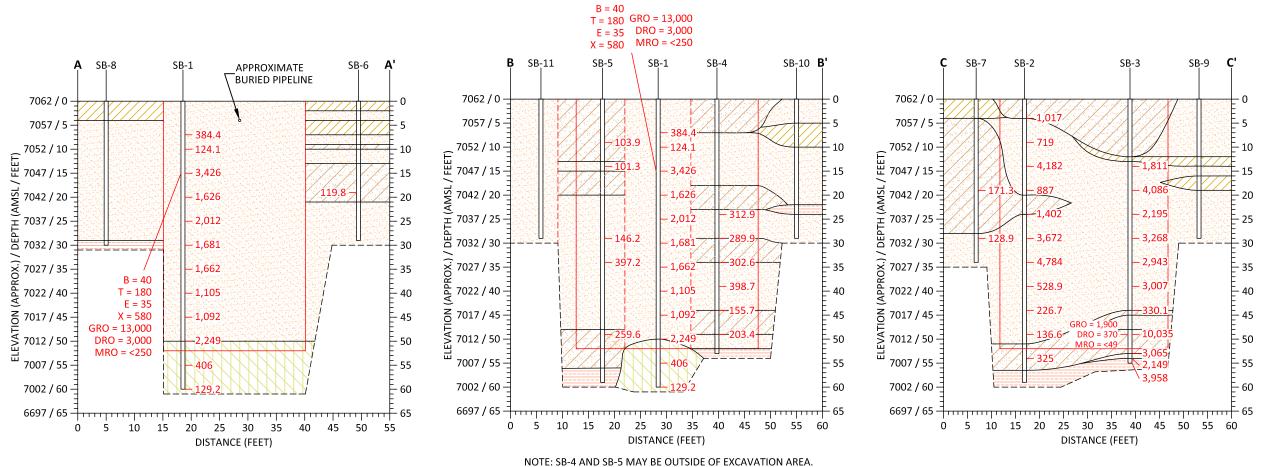












#### FIGURE 4

#### **GEOLOGIC CROSS SECTION**

HARVEST MIDSTREAM TRUNK S RELEASE LOCATION INCIDENT NUMBER: NCS1931842879 RELEASE ID: 373888 NE¼ SE¼, SEC. 7, T25N, R3W RIO ARRIBA COUNTY, NEW MEXICO N36.41180, W107.18085



# animas environmental

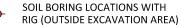
Farmington, NM • Durango, CO animasenvironmental.com

April 27, 2020

DRAWN BY:	DATE DRAWN:				
C. Lameman	April 27, 2020				
REVISIONS BY:	DATE REVISED:				
C. Lameman	April 27, 2020				
CHECKED BY:	DATE CHECKED:				
E. McNally	April 27, 2020				
APPROVED BY:	DATE APPROVED:				

#### **LEGEND**

SOIL BORING/SVE WELL LOCATIONS WITH RIG (WITHIN EXCAVATION AREA)



— P — APPROXIMATE BURIED PIPELINE



E. McNally

**CLAYEY SAND** 



SANDSTONE PID-OVM (PHOTO IONIZATION

- 1,811 DETECTOR- ORGANIC VAPOR METER IN PARTS PER MILLION (ppm)

BTEX

TOLUENE

ETHYLBENZENE

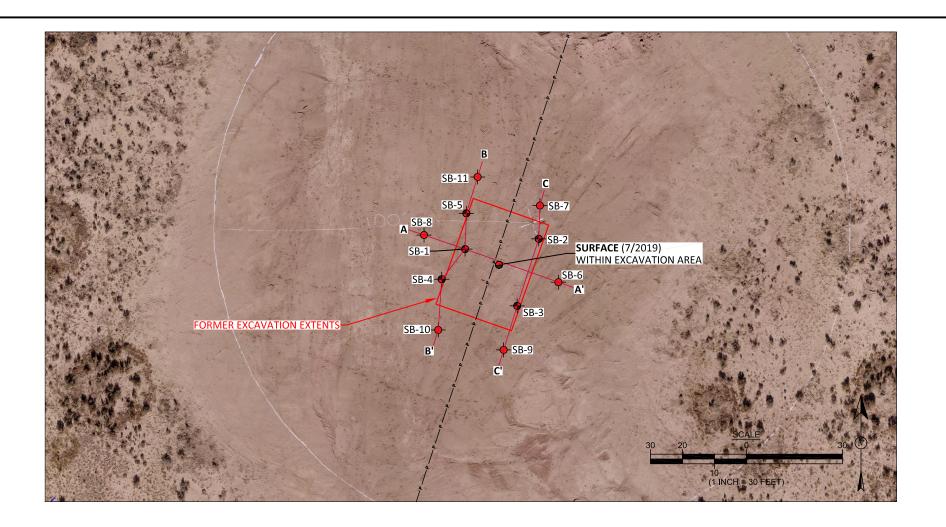
**GASOLINE RANGE ORGANICS** 

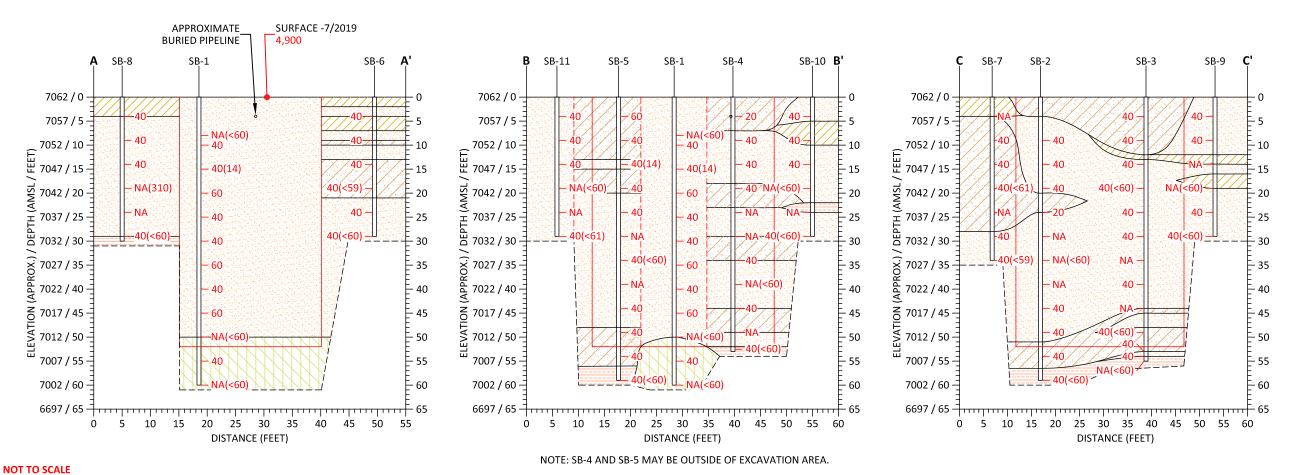
DRO DIESEL RANGE ORGANICS

MRO MOTOR-OIL RANGE ORGANICS

NOTE: ONLY OVM AND LABORATORY CONCENTRATIONS ABOVE NMOCD ACTION LEVELS ARE INCLUDED. ALL RESULTS TABULATED IN TABLE 1. ALL LABORATORY RESULTS REPORTED IN mg/kg. SAMPLES ANALYZED PER EPA METHOD 8021, 8015, AND 300.0.

**NOT TO SCALE** 





### **FIGURE 4A**

# GEOLOGIC CROSS SECTION AND CHLORIDES

HARVEST MIDSTREAM
TRUNK S RELEASE LOCATION
INCIDENT NUMBER: NCS1931842879
RELEASE ID: 373888
NE¼ SE¼, SEC. 7, T25N, R3W
RIO ARRIBA COUNTY, NEW MEXICO
N36.41180, W107.18085



## animas environmental services

Farmington, NM • Durango, CO animasenvironmental.com

April 27, 2020

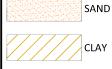
DRAWN BY:	DATE DRAWN:
C. Lameman	April 27, 2020
REVISIONS BY:	DATE REVISED:
C. Lameman	April 27, 2020
CHECKED BY:	DATE CHECKED:
E. McNally	April 27, 2020
APPROVED BY:	DATE APPROVED:

#### LEGEND

LTE SAMPLE LOCATION

E. McNally

- SOIL BORING/SVE WELL LOCATIONS
  WITH RIG (WITHIN EXCAVATION AREA)
  - SOIL BORING LOCATIONS WITH RIG (OUTSIDE EXCAVATION AREA)
- P APPROXIMATE BURIED PIPELINE

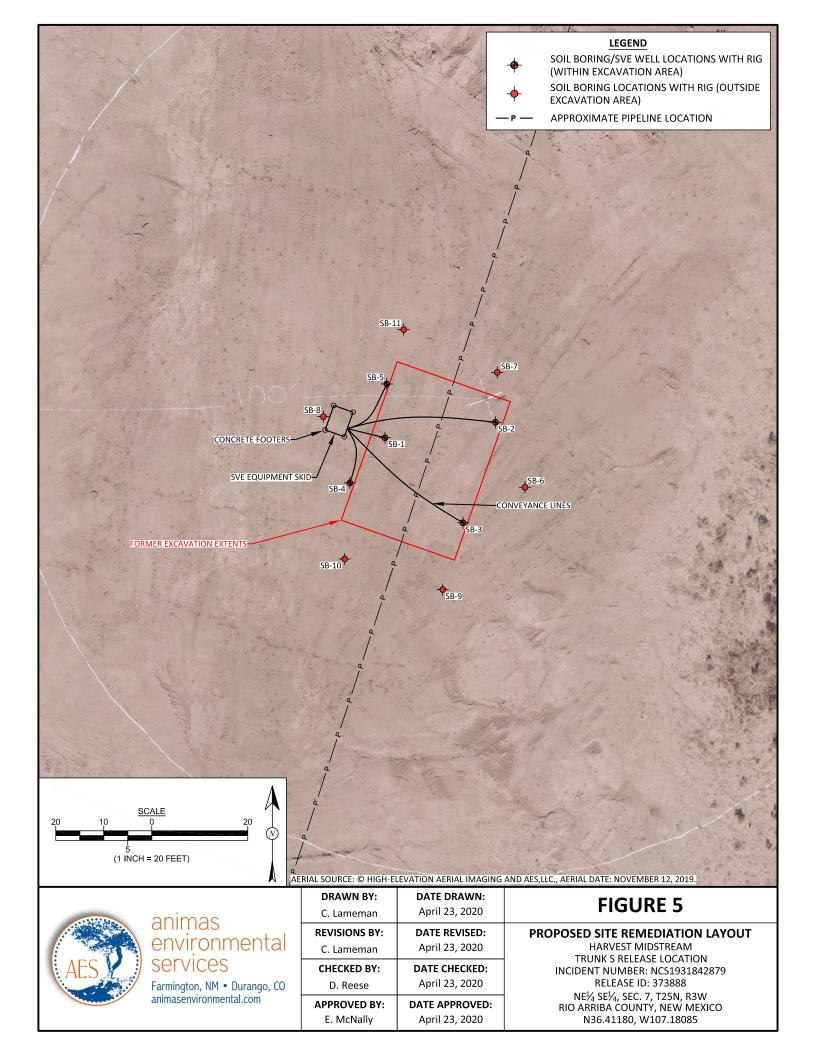


CLAYEY SAND



- 40(14) FIELD CHLORIDE mg/L (ppm) (LAB CHLORIDE) mg/kg (ppm)

NOTE: ALL RESULTS TABULATED IN TABLE 1. SAMPLES ANALYZED PER EPA METHOD 300.0.



# TABLE 1 SUMMARY OF SOIL ANALYTICAL RESULTS TRUNK S RELEASE (JUNE 2019) Rio Arriba County, New Mexico

	Date				Ethyl-	Total				
Sample ID	Sampled	Depth	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO	Chloride
		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Analytical Method		8021B	8021B	8021B	8021B	8015	8015	8015	300
	NMOCD Actio	n Level**	10 mg	g/kg Benzene	e / 50 mg/kg	BTEX		600		
PH01	02-Jul-19	1	<0.024	<0.049	<0.049	<0.098	<4.9	<9.9	<50	2,300
PH01	02-Jul-19	5	<0.024	<0.049	<0.049	<0.097	<4.9	<9.9	<50	2,200
PH02	02-Jul-19	1	<0.024	<0.048	<0.048	<0.097	<4.8	<9.4	<47	2,400
PH02	02-Jul-19	5	<0.025	<0.050	<0.050	<0.10	<5.0	<9.1	<46	<60
UG01	02-Jul-19	surface	<0.025	<0.050	<0.050	<0.099	<5.0	<10	<50	1,300
UG02	02-Jul-19	surface	<0.025	<0.050	<0.050	<0.10	<5.0	<9.7	<48	3,300
Surface	02-Jul-19	1	<0.024	<0.048	<0.048	0.17	<4.8	<9.8	<49	4,900
Wall	02-Jul-19	15	40	420	66	710	16,000	1,400	<490	<60
Floor	02-Jul-19	30	<0.12	0.61	0.31	5.4	120	110	<46	<60
SB-1	19-Nov-19	8	0.054	0.44	0.090	1.4	11	<9.4	<47	<60
SB-1	19-Nov-19	15	14	180	35	580	13,000	3,000	<250	14
SB-1	19-Nov-19	50	0.029	0.17	<0.049	1.1	37	20	<46	<60
SB-1	26-Nov-19	60	<0.024	<0.049	<0.049	<0.097	<4.9	<9.2	<46	<60
SB-2	09-Mar-20	34	<0.025	<0.050	<0.050	0.18	12	64	<47	<60
SB-2	09-Mar-20	59	<0.025	<0.049	<0.049	<0.098	<4.9	<9.7	<49	<60
SB-3	09-Mar-20	19	<0.023	<0.047	<0.047	0.53	18	27	<48	<60
SB-3	10-Mar-20	49	0.60	15	2.0	45	1,900	370	<49	<60
SB-3	10-Mar-20	55	<0.024	<0.049	<0.049	<0.097	<4.9	<9.6	<48	<60
SB-4	10-Mar-20	39	<0.025	<0.049	<0.049	<0.098	<4.9	<9.7	<49	<60

# TABLE 1 SUMMARY OF SOIL ANALYTICAL RESULTS TRUNK S RELEASE (JUNE 2019) Rio Arriba County, New Mexico

	Date				Ethyl-	Total				
Sample ID	Sampled	Depth	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO	Chloride
		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Analytica	al Method	8021B	8021B	8021B	8021B	8015	8015	8015	300
	NMOCD Actio		10 mg	g/kg Benzene	e / 50 mg/kg	BTEX		100		600
SB-4	10-Mar-20	53	<0.025	<0.050	<0.050	<0.10	<5.0	<9.8	<49	<60
SB-5	11-Mar-20	34	<0.025	<0.049	<0.049	<0.099	<4.9	<9.1	<46	<60
SB-5	11-Mar-20	59	<0.024	<0.048	<0.048	<0.096	<4.8	<10	<50	<60
SB-6	11-Mar-20	19	<0.025	<0.049	<0.049	<0.099	<4.9	<9.4	<47	<59
SB-6	12-Mar-20	29	<0.025	<0.049	<0.049	<0.098	<4.9	<9.4	<47	<60
SB-7	16-Mar-20	19	<0.024	<0.048	<0.048	0.16	<4.8	<9.4	<47	<61
SB-7	16-Mar-20	34	<0.025	<0.049	<0.049	<0.099	<4.9	<9.8	<49	<59
SB-8	16-Mar-20	19	<0.024	<0.048	<0.048	<0.096	<4.8	<9.0	<45	310
SB-8	16-Mar-20	29	<0.024	<0.048	<0.048	<0.096	<4.8	<9.9	<50	<60
SB-9	16-Mar-20	19	<0.025	<0.049	<0.049	<0.098	<4.9	<9.5	<48	<60
SB-9	16-Mar-20	29	<0.024	<0.048	<0.048	<0.097	<4.8	<10	<50	<60
SB-10	16-Mar-20	19	<0.024	<0.049	<0.049	<0.097	<4.9	<9.4	<47	<60
SB-10	16-Mar-20	29	<0.024	<0.048	<0.048	<0.096	<4.8	<9.3	<46	<60
SB-11	16-Mar-20	19	<0.025	<0.049	<0.049	0.11	<4.9	<9.7	<48	<60
SB-11	16-Mar-20	29	<0.024	<0.048	<0.048	<0.097	<4.8	<9.1	<45	<61

# TABLE 1 SUMMARY OF SOIL ANALYTICAL RESULTS TRUNK S RELEASE (JUNE 2019) Rio Arriba County, New Mexico

	Date				Ethyl-	Total				
Sample ID	Sampled	Depth	Benzene	Toluene	benzene	Xylenes	GRO	DRO	MRO	Chloride
		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Analytical Method			8021B	8021B	8021B	8015	8015	8015	300
ı	NMOCD Actio	n Level**	10 mg	g/kg Benzene	e / 50 mg/kg		600			
Stockpile	18-Mar-20	surface	NA	NA	NA	NA	NA	NA	NA	180
Upgradient	18-Mar-20	1	NA	NA	NA	NA	NA	NA	NA	2,600
Upgradient	18-Mar-20	5	NA	NA	NA	NA	NA	NA	NA	1,300
Background	18-Mar-20	1	NA	NA	NA	NA	NA	NA	NA	310
Background	18-Mar-20	3	NA	NA	NA	NA	NA	NA	NA	340

Notes: NE = Not Established

GRO = Gasoline Range Organics
DRO = Diesel Range Organics
MRO = Motor Oil Range Organics
\*\*NMAC 19.15.29.12E Table I

# TABLE 2 SUMMARY OF SOIL ANIONS/CATIONS TRUNK S RELEASE (JUNE 2019) Rio Arriba County, New Mexico

	Date										
Sample ID	Sampled	Depth	Chloride	Fluoride	Sulfate	Cond.	Ca	Mg	K	Na	Alkalinity
		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	umhos/cm	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	Analytica	ıl Method	300	300	300	SM2320B	6010	6010	6010	6010	ASA10-3
	NMOCD Actio	n Level**	600	NE	NE	NE	NE	NE	NE	NE	NE
SB-1											
Release Area	19-Nov-19	15	14	3.7	<7.5	639	7,300	8,100	3,400	870	NA
Upgradient											
(Pond Drainage)	18-Mar-20	1	2,600	<1.5	21	4,800	2,900	4,200	2,400	2,900	23
Upgradient											
(Pond Drainage)	18-Mar-20	5	1,300	3.8	48	3,140	7,700	5,100	2,100	550	56
Background	18-Mar-20	1	310	<1.5	<7.5	1,550	3,200	4,000	1,800	710	32
Background	18-Mar-20	3	340	2	<7.5	1,530	9,300	4,700	2,000	440	94
Stockpile	18-Mar-20	Comp	180	5.8	72	1,420	6,600	5,400	2,400	860	202
	20 20	25.116		2.0		_,	3,300	2,100	_, .00		

Notes: NE = Not Established

NA = Not Analyzed

Composite = 4 point composite sample

Ca = Calcium

Mg = Magnesium

K = Potassium

Na = Sodium



Photo 1: SB-4 boring installation. SB-1 through SB-3 at left. *Photo taken 3/10/2020*.



Photo 2: SB-6 boring installation. SB-1 through SB-5 at right. *Photo taken 3/11/2020*.



Photo 3: Muddy site conditions. *Photo taken 3/12/2020.* 



Photo 4: Setup of grout and pouring. Photo taken 3/18/2020.



Photo 5: Direction of upgradient sample locations. *Photo taken 3/18/2020.* 



Photo 6: Direction of background sample locations. *Photo taken 3/18/2020*.



2,249

406

129.2

NA

40

Latitude

Longitude

Logged By

(Page 1 of 1)

: E. Hubbert

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico N36.41180, -107.18085

Depth

in Feet

0

10

15

20

25

30-

45

50-

55

60-

65

Surf.

Elev.

7062

7062

+ 7057

+ 7052

+ 7047

- 7042

+ 7037

+ 7032

- 7027

+ 7022

+ 7017

7012

+ 7007

7002

SP

SP

SW

SW

SW

SP

**GRAPHIC** 

Date Started : 11/19/19 Date Completed : 11/25/19

**DESCRIPTION** 

POORLY GRADED SAND, Tan, Fine Grained, Firm, Sagebrush Roots, Trace CaCO3 deposits, Moist,

POORLY GRADED SAND, Tan, Fine Grained, Loose, Trace CaCO3 deposits, Moist, Heavy Hydrocarbon

WELL GRADED SAND, Brown, Coarse, Soft, Interbedded Gravel, Slight Black Staining at 23 feet,

WELL GRADED SAND, Brown, Coarse, Soft, Less

POORLY GRADED SAND, Very Hard, Brown, Fine to Medium, Dry, Cemented, CaCO3 deposits, Slight

OFFSET HOLE - PUSHED AUGER FROM 0 TO 50 FEET SILTY CLAY, Dark Brown, Firm, Moist, No Odor or

WELL GRADED SAND, Brown, Coarse, Soft, Moderate Hydrocarbon Odor, No Staining

Very Heavy Hydrocarbon Odor.

Hydrocarbon Odor, No Staining

Hydrocarbon Odor, No Staining.

TOTAL DEPTH AT 60 FEET.

Staining.

Heavy Hydrocarbon Odor, No Staining,

Odor, No Staining,

Hole Diameter : 7.25 in.

Drilling Method : C.M.E 75 H.S.A.
Sampling Method : 1.5" x 24" Split Spoon

PID (ppm)	Chlorides (mg/L)	Well: SB-1 Elev.: NA
384.4 124.1	40	
3,426	40	
1,626	60	—Bentonite Plug
2,012	40	2" PVC Casing
1,681	40	
1,662	60	
1,105	40	
1,092	60	2" PVC .010" Screen —Sand Pack (10/20)



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico N36.41180, -107.18085 Date Started : 03/09/20 Date Completed : 03/09/20 Latitude

Hole Diameter : 7.25 in.

Longitude Logged By

: C. Lameman

Drilling Method : C.M.E 75 H.S.A.
Sampling Method : 1.5" x 24" Split Spoon

<del>                                     </del>		1		1 ' 5	1		
Depth in Feet	Surf. Elev. 7062	nscs	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)	Well: SB-2 Elev.: NA
0-	- 7062						
-	- 7002	CL		CLAY WITH SAND, Soft, Brown, High Plasticity, Moist, No Staining, No Odor	95.8		
5-	- 7057	SP		POORLY GRADED SAND, Brown-Tan, Fine Grained, Loose, Dry, No Odor, No Staining,	- 1,017		
10-	- 7052			POORLY GRADED SAND, Brown-Tan, Fine Grained, Loose, Dry, Strong Odor, No Staining,	719	40	— Grout
15—	- 7047	SP			4,182	40	——2" PVC Casing
20-	- 7042			CLAY WITH SAND, Hard, Brown, High Plasticity,	887	40	Bentonite Plug
-	7007	CL		Strong Odor, No Staining  WELL GRADED SAND, Brown-Tan, Fine Grained,	1,402	20	
25— - -	- 7037	SW		Loose, Dry, Strong Odor, No Staining,			2" PVC .010"Screen
30-	- 7032	SP		POORLY GRADED SAND, Tan, Coarse Grained, Loose, Dry, Strong Odor, No Staining	3,672	NA	— Sand Pack (10/20)
35-	- 7027			WELL GRADED SAND, Tan, Fine Grained, Loose, Dry, Strong Odor, No Staining	4,784	NA	
40-	- 7022				528.9	NA	
45-	- 7017	SW			226.7	40	
-				DOODLY CDARED CAND To Mark to the Con-	- 136.6	40	—Backfill
50 —	- 7012	SP		POORLY GRADED SAND, Tan, Medium to Coarse Grained, Dry, Slight Odor, No Staining			
-		SC		CLAY WITH SAND, Hard, High Plasticity, Brown-Tan,	7		
55—	- 7007	SC		Slight Odor, No Staining WELL GRADED SAND WITH CLAY, Brown, Dry, Hard, Slight Odor, No Staining	325	40	
-		SS		SANDSTONE, Hard, Tan and Orange, Medium to Coarse Grained, Dry, No Odor, No Staining	- 	40	



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico

Date Started **Date Completed** 

Hole Diameter

: 03/09/20 : 03/10/20

Latitude Longitude Logged By

: C. Lameman

N36.41180, -107.18085

**Drilling Method** 

: 7.25 in. : C.M.E 75 H.S.A.

Sampling Method : 1.5" x 24" Split Spoon

Well: SB-3 **GRAPHIC** Elev.: NA Depth Surf. PID Field **DESCRIPTION** Elev. in Chlorides (ppm) Feet 7062 (mg/L) 0 7062 CLAY WITH SAND, Soft, Brown, High Plasticity, Moist, No Staining, No Odor 40.6 40 - 7057 CL 9.5 40 10 + 7052 CH CLAY, Stiff, Brown, High Plasticity, No Odor, No 1,811 40 + 7047 WELL GRADED SAND, Tan, Loose, Fine Grained, Dry, 15 Slight Odor, No Staining SW 4,086 40 Grout 7042 20 2" PVC Casing 2,195 40 WELL GRADED SAND, Tan, Loose, Fine Grained, Dry, - 7037 25 Strong Odor, No Staining SW 3,268 40 POORLY GRADED SAND, Tan, Loose, Coarse 30 <del>|</del> 7032 Grained, Dry, Strong Odor, No Staining 2.943 NA 35 + 7027 SP Bentonite Plug 3,007 40 <del>|</del> 7022 40 2" PVC .010"Screen 330.1 NA SC POORLY GRADED SAND WITH CLAY, Brown, Dense, + 7017 45 Medium Grained, Moist, Strong Odor, No Staining Sand Pack (10/20) SP POORLY GRADED SAND, Tan, Loose, Medium to Coarse Grained, Dry, Strong Odor, No Staining 10,035 40 CLAY WITH SAND, Brown, Very Stiff, Fine Grained, <del>|</del> 7012 50 SC Moist, Strong Odor, No Staining Backfill 3,065 40 POORLY GRADED SAND, Some Clay, Brown, Dense, 2,149 40 Medium to Coarse Grained, Moist, Strong Odor, No 55 - 7007 3.958 NA Staining SANDSTONE, Tan, Medium to Coarse Grained, Dry, Very Dense, Strong Odor, No Staining. Auger Refusal at 55 feet. 60



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico

Date Started Date Completed : 03/10/20 : 03/10/20 Latitude

Longitude

Hole Diameter **Drilling Method** 

: 7.25 in. : C.M.E 75 H.S.A. Logged By

: C. Lameman

N36.41180, -107.18085

Sampling Method : 1.5" x 24" Split Spoon

			O				Well: SB-4
Depth in Feet	Surf. Elev. 7062	SOSO	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)	Elev.: NA
0-	- 7062	SC		CLAY WITH SAND, Soft, Brown, Fine Grained, Moist, Roots, No Odor, No Staining			
_		SW		WELL GRADED SAND, Brown, Loose, Fine Grained, Moist, No Odor, No Staing	12.5	20	
5-	7057	SC		CLAY WITH SAND, Soft, Brown, High Plasticity, Fine Grained, Dry, No Odor, No Staining	12.5	20	
10—	- 7052			WELL GRADED SAND, Brown, Loose, Fine Grained, Moist, No Odor, No Staing	40.9	40	Onet
15—	- 7047	SW			56.8	40	—Grout  —2" PVC Casing
-				CLAY WITH SAND, Soft, Brown, Fine Grained, Dry, No Odor, No Staining	67.4	40	
20-	- 7042  -	SC		No Odor, No Stalling			Bentonite Plug
25 — -	- 7037	SP		POORLY GRADED SAND, Tan, Loose, Medium to Coarse Grained, Dry, No Odor, No Staining	312.9	NA	
30-	- 7032	SC		CLAY WITH SAND, Medium, Brown, High Plasticity, Fine Grained, Dry, Slight Odor, No Staining	289.9	NA	——2" PVC .010"Screen ——Sand Pack (10/20)
35—	- 7027	SP		POORLY GRADED SAND, Tan, Loose, Medium Grained, Dry, Odor, No Staining	302.6	40	
40-	- 7022	——————————————————————————————————————		POORLY GRADED SAND, Tan, Loose, Coarse Grained, Dry, Odor, No Staining. Slow Advance to 44	398.7	NA	
-		SP		feet.	155.7	40	
45— - -	- 7017	SC		CLAY WITH SAND, Medium, Brown, High Plasticity, Fine Grained, Dry, Slight Odor, No Staining			— Backfill
50-	- 7012	SP	////	POORLY GRADED SAND, Tan, Hard, Medium Grained, Moist, Strong Odor, No Staining.	203.4	NA	
55—		SS		SANDSTONE, Tan and Orange, Hard, Medium to Coarse Grained, Dry, Very Dense, Odor, No Staining. Auger Refusal at 53 feet.	79.1	40	



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico N36.41180, -107.18085 Date Started

Date Completed

: 03/11/20 : 03/11/20 Latitude Longitude Logged By

ngitude

: C. Lameman

Hole Diameter : 7.25 in.

Drilling Method : C.M.E 75 H.S.A.

Sampling Method : 1.5" x 24" Split Spoon

Depth in Feet	Surf. Elev. 7062	nscs	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)	Well: SB-5 Elev.: NA
0-	7062		Y////	CLAY WITH SAND, Soft, Brown, Fine Grained, Moist,			
- - 5—	- 7057	SC		Roots, No Odor, No Staining	3.0	60	
- - 10 —	- 7052	sc		CLAY WITH SAND, Stiff, Brown, Fine Grained, Dry, No Odor, No Staining	103.9	40	
- - 15 —	7047	SW		WELL GRADED SAND, Tan, Loose, Fine Grained, Dry, Slight Odor, No Staining	101.3	40	
- - -		SC		CLAY WITH SAND, Stiff, Brown, Fine Grained, Dry, Slight Odor, No Staining	88.0	40	— Grout
20 — - - - - 25 —	- 7042 - - - 7037	SP		POORLY GRADED SAND, Tan, Loose, Fine to Medium Grained, Dry, Slight Odor, No Staining	69.5	40	2" PVC Casing
- - 30 —	7032	SP		POORLY GRADED SAND, Tan, Loose, Coarse Grained, Dry, No Odor, No Staining	146.2	NA	
- - -	- 7027	SP		POORLY GRADED SAND, Tan-Brown, Loose, Fine Grained, Dry, No Odor, No Staining	397.2	40	Bentonite Plug
40-	7022	SP		POORLY GRADED SAND, Tan-Brown, Dense, Coarse Grained, Dry, No Odor, No Staining	58.5	NA	2" PVC .010"Scree  —Sand Pack (10/20)
45— -	7017	SP		POORLY GRADED SAND, Tan-Brown, Dense, Medium Grained, Dry, No Odor, No Staining	67.5	40	
50 —	7012	SC		CLAY WITH SAND, Hard, Brown, High Plasticity, Fine Grained, Dry, Slight Odor, No Staining	259.6	40	
-	1	SP	/////	POORLY GRADED SAND, Lens, Tan, Dense, Coarse	}		
55 <del>-</del>	7007	sc		Grained, Dry, No Odor, No Staining  CLAY WITH SAND, Hard, Brown, High Plasticity, Fine Grained, Dry, Slight Odor, No Staining	18.0	40	—Backfill
-	1	SS		SANDSTONE, Tan and Orange, Very Dense, Coarse Grained, Dry, No Odor, No Staining			



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico N36.41180, -107.18085

Date Started : 03/11/20 Date Completed : 03/12/20 Latitude

Longitude Logged By

: C. Lameman

Hole Diameter **Drilling Method** 

: 7.25 in. : C.M.E 75 H.S.A.

Sampling Method : 1.5" x 24" Split Spoon

Depth in Feet	Surf. Elev.	nscs	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)
0-		СН		CLAY, Soft, Brown, Moist, No Odor, No Staining		
2-		sw	(////	WELL GRADED SAND, Brown, Fine Grained, Dry, No Odor, No Staining		
4— - 6—		СН		CLAY, Soft, Brown, Moist, No Odor, No Staining	33.0	40
8-		SP	<i>\( \( \) \( \)</i>	POORLY GRADED SAND, Brown, Coarse Grained, Dry, No Odor, No Staining		
10-		SC		CLAY WITH SAND, Stiff, Brown, Moist, Slight Odor, No Staining POORLY GRADED SAND, Brown, Medium Grained, Dry, No Odor, No	46.8	40
12-		SP		Staining		
14-				CLAY WITH SAND, Stiff, Brown, High Plasticity, Fine Grained, Dry, No Odor, No Staining	63.3	40
16 —		SC				
20-		SC		CLAY WITH SAND, Hard, Brown, High Plasticity, Fine Grained, Dry, No Odor, No Staining	119.8	40
22-				POORLY GRADED SAND, Tan, Fine to Medium Grained, Dry, Slight Odor, No Staining		
24-		SP			17.7	40
26— - - 28—						
30-		SP		POORLY GRADED SAND, Tan, Coarse Grained, Dry, No Odor, No Staining TOTAL DEPTH 29 FEET.	28.3	40
32-					ı	



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico

Date Started

: 03/11/20

Latitude

Longitude

: 03/16/20 Date Completed Hole Diameter : 7.25 in.

Logged By

: E. Hubbert

**Drilling Method** : C.M.E 75 H.S.A.

	N36.41180, -107.18085			Sampling Method : 1.5" x 24" Split Spoon		
Depth in Feet	Surf. Elev.	nscs	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)
0-						
		СН				
2		СН		CLAY, Hard, Brown, High Plasticity, Dry, No Odor, No Staining	17.0	NA
6-				CLAYEY SILTY SAND, Brown, Soft, Dry, Poorly Graded Sand, No Staining, No Odor	17.5	INA
8-					29.7	40
10-						
14-					82.7	40
16-		SC				
18-					171.3	40
22-						
24					58.3	NA
26— 28—				WELL GRADED SAND, Brown, Coarse Grained, Soft, Dry, No Staining, No		
30		SW		Odor	128.9	40
32		SM		SILTY SAND, Brown, Medium Stiff, Dry		
34-		SS		SANDSTONE, Very Hard, Tan, Medium to Coarse Grained, Dry, No Staining, No Odor	29.4	40



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico N36.41180, -107.18085

Date Started Date Completed

Hole Diameter

: 03/16/20 : 03/16/20

Longitude Logged By

Latitude

: E. Hubbert

Drilling Method : C.M.E 75 H.S.A.

Sampling Method : 1.5" x 24" Split Spoon

: 7.25 in.

epth in eet	Surf. Elev.	nscs	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)
0-				CLAY, Stiff, Dark Brown, Dry, CaCO3 Deposits		
2-		СН			20.4	40
4 — - - 6 —				POORLY GRADED SAND, Loose, Brown, Dry, No Staining, No Odor	28.1	40
8-		SP				
10-				POORLY GRADED SAND, Medium Dense, Brown, Dry, No Staining, No Odor	17.2	40
12						
14		SP			16.8	40
16-						
18-					39.4	NA
20				POORLY GRADED SAND, Dense, Brown, Dry, No Staining, No Odor	<b>33</b>	
22						
24-		SP		POORLY GRADED SAND, Dense, Tan/Brown, Coarse Grained, Dry, No Staining, No Odor	21.9	NA
28				CANDSTONE Top Von Dongo Medium to Coorse Crained Dry No Chairing	33.4	40
30 –		SS		SANDSTONE, Tan, Very Dense, Medium to Coarse Grained, Dry, No Staining, No Odor. TOTAL DEPTH AT 29 FEET.		



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico N36.41180, -107.18085

Date Started : 03/16/20 Date Completed : 03/16/20

Hole Diameter

Latitude

Longitude

Logged By : E. Hubbert

**Drilling Method** : C.M.E 75 H.S.A. Sampling Method : 1.5" x 24" Split Spoon

: 7.25 in.

Depth in Feet	Surf. Elev.	nscs	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)
2-				WELL GRADED SAND, Brown, Loose, Fine to Medium Grained, Dry, No Staining, No Odor		
4 <del>-</del>   -   -   -   -   -   -   -   -   -		SW			54.9	40
8-					15.8	40
. =		CL		CLAY, Brown, Medium, CaCO3 deposits, Dry, No Staining, No Odor	1	
12 — 14 — 16 —		SW		WELL GRADED SAND, Loose, Brown, Dry, No Staining, No Odor	19.0	NA
18-		CL		CLAY, Brown, Medium, CaCO3 deposits, Roots, Dry, No Staining, No Odor	48.8	NA
20 -		SW		WELL GRADED SAND, Loose, Brown, Dry, No Staining, No Odor WELL GRADED SAND, Loose, Tan, Coarse Grained, Dry, No Staining, No Odor	-	197
24 - 26 - 28 -		SW			28.3	40
20 🗆			1. 25. 125. 125. 125. 125. 125.		1	I



(Page 1 of 1)

Harvest Midstream
Trunk S Release
NE1/4 SE1/4, Sec. 7, T25N, R3W
Rio Arriba County, New Mexico

Date Started
Date Completed

Hole Diameter

Latitude

: 03/16/20 : 7.25 in.

: 03/16/20

Longitude Logged By

: E. Hubbert

Arriba County, New Mexico Drilling Method N36.41180, -107.18085 Drilling Method Sampling Metho

Drilling Method : C.M.E 75 H.S.A.
Sampling Method : 1.5" x 24" Split Spoon

	.,,,,		107.1808	Sampling Method : 1.5" x 24" Split Spoon		<b>.</b>
Depth in Feet	Surf. Elev.	nscs	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)
0-				POORLY GRADED SILTY SAND, Loose, Brown, Roots, Fine Grained, Dry,		
- -				No Staining, No Odor		
2-		SP				
-						
4-					42.8	40
-				CLAY, Medium, Brown, CaCO3 Deposits, Roots, No Staining, No Odor	1	
6-						
-		CL				
8-						
-					25.8	40
10 <del>-</del>				POORLY GRADED SILTY SAND, Loose, Brown, Fine Grained, Roots, Dry, No Staining, No Odor	1	
-				No Stailing, No Odol		
12-						
- 14 <i>-</i> -					31.0	40
-					31.0	40
16-		SP				
-		O1				
18-						
_					56.1	NA
20 —						
-						
22-				SANDSTONE, Weathered, Very Dense, Dry	-	
- -		SS		ONIDOTONE, Weathered, Very Delise, Dry		
24		CD		POORLY GRADED SAND, Loose, Tan/Brown, Fine Grained, Roots, Dry, No	18.1	NA
- -		SP		Staining, No Odor	1	
26 –				POORLY GRADED SAND, Tan, Dry, Coarse Grained, No Staining, No Odor		
-		SP				
28-						
- -					48.6	40
30 —						



(Page 1 of 1)

Harvest Midstream Trunk S Release NE1/4 SE1/4, Sec. 7, T25N, R3W Rio Arriba County, New Mexico N36.41180, -107.18085

Date Started : 03/16/20 Date Completed : 03/16/20

Hole Diameter

Latitude

Longitude

Logged By : E. Hubbert

**Drilling Method** : C.M.E 75 H.S.A. Sampling Method : 1.5" x 24" Split Spoon

: 7.25 in.

		J. 7 1 100,	107.1808	Sampling Method : 1.5" x 24" Split Spoon		
Depth in Feet	Surf. Elev.	SOSN	GRAPHIC	DESCRIPTION	PID (ppm)	Field Chlorides (mg/L)
0-  2-  4-  6-		SP		POORLY GRADED SILTY SAND, Brown, Roots, CaCO3 Deposits, Dry, Medium Dense, No Staining, No Odor	12.0	40
8-				POORLY GRADED SILTY SAND, Brown, Roots, CaCO3 Deposits, Dry, Dense, No Staining, No Odor	7.3	40
12- - - 14- - - - - 16-		SP			15.5	40
18-		SP		POORLY GRADED SAND, Brown, Roots, CaCO3 Deposits, Dry, Very Dense, No Staining, No Odor POORLY GRADED SAND, Loose, Weathered Sandstone interbedded	80.2	NA
22 – 24 – 26 –		SP			53.7	NA
28-					18.4	40



No

7

1

1

1

 $\checkmark$ 

1

1

1

### NMOCD Site Assessment/Characterization, Remediation & Closure

Site Name:	Trunk S Pipeline Release Location
API #:	not applicable
Lat/Long:	36.41180 -107.18085
TRS:	NE/SE-7-25N-3W
Land Jurisdiction:	Private
County:	Rio Arriba
Determination made by:	David Reese, Environmental Scientist
Date:	7/29/2019

### **Wellhead Protection Area Assessment:**

Determine the horizontal distance from all known water sources within 1/2 mile of the release including private and domestic water sources. Water sources are wells, springs or other sources of fresh water extraction. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes. (NMAC 19.15.29.11A.3)

ID (if available)	Latitude	Longitude	Distance
SJ 01305	36.40979	-107.17622	0.29 mi
	36.40822	-107.17711	0.32 mi
	36.41501	-107.18651	0.38 mi
	36.41359	-107.17872	0.16 mi
	36.40696	-107.18029	0.34 mi
		SJ 01305 36.40979 36.40822 36.41501 36.41359	SJ 01305 36.40979 -107.17622 36.40822 -107.17711 36.41501 -107.18651 36.41359 -107.17872

### Distance to Nearest Significant Watercourse (NMAC 19.15.29.11A.4

unnamed wash 360 ft to ENE that ultimately drains to Largo Canyon wash

### Depth to Groundwater Determination (NMAC 19.15.29.11A.2)

Cathodic Report/Site Specific Hydrogeology
Elevation Differential
Water Wells
Cathodic Report Nearby Wells

Cathodic Report/Site Specific Hydrogeology
none available
approximately 10' higher than small wash 360' to ENE
285' to water according to SJ 01305 well record
none available for nearby wells

**Sensitive Receptor Determination**  $^{*}$ If a release occurs within the following areas, the  $\dot{\mathsf{R}}\mathsf{P}$  must treat the release as if it occurred less than 50 ft Yes o Groundwater (NMAC 19.15.29.12C.4): <300' of any continuously flowing watercourse or any other significant watercourse</p> 1 <200' of any lakebed, sinkhole or playa lake (measured from the Ordinary High Water Mark) <300' of an occupied permanent residence, school, hospital, institution or church</p> <500' of a spring or private/domestic water well used by <5 households for domestic or stock watering <1000' of any water well or spring within incorporated municipal boundaries or within a defined municipal fresh water well field <300' of a wetland within the area overlying a subsurface mine 

### **Explain any 'Yes' Marks:**

within an unstable area

within a 100-year floodplain

"YES" marks: Although separate washes are 360' to ENE and 405' to W from lat/long listed, excavation location and initial lab results indicate the release has also occurred within 300' of significant watercourses. "No" marks: Well SJ01305 is 1,530' to SE.

Actual Depth to Groundwater is:	≤50 □	50-100	>100 🗹						
Treat Depth to Groundwater as if it's ≤ 50 ft?* Yes <pre> ✓</pre> No									
	≤50	50-100	>100						
Release Action Levels are Benzene	10	10	10						
BTEX (mg/kg)	50	50	50						
8015 TPH (GRO/DRO) (mg/kg)	Not Applicable	1,000	1,000						
8015 TPH (GRO/DRO/MRO) (mg/kg)	100	2,500	2,500						
Chlorides (mg/kg)	600	10,000	20,000						

NMAC 19.15.29.12 Table I. Release Action Levels are determined by the depth below bottom of pit to groundwater.



### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER AZTEC

John R. D'Antonio, Jr., P.E. State Engineer

100 Gossett Drive, Suite A Aztec, New Mexico 87410

March 5, 2020

Harvest Four Corners, LLC Attn: Kijun Hong 1755 Arroyo Dr. Bloomfield, NM 87413

RE: Permit Approval for Monitoring Wells, SJ-4380 POD1-POD9; Harvest Midstream Trunk S Release

Site; Rural Rio Arriba County, New Mexico

Greetings,

On February 18, 2020, the New Mexico Office of the State Engineer received an application for a permit for the installation of eight new monitoring wells, and use of one existing monitoring well for soil vapor extraction.

Enclosed is a copy of the above numbered permit that has been approved subject to the conditions set forth on the approval page and in the attached Conditions of Approval.

Please be aware that there are deadlines to submit well records for all wells, new and existing. These deadlines can be found in the attached Conditions of Approval. A standardized plugging method has also been included in the Conditions of Approval for the future abandonment of the wells covered by this permit. This eliminates the need to submit a separate Well Plugging Plan of Operations for approval by the NMOSE prior to plugging, unless an alternate plugging method is proposed, required by a separate oversight agency, necessary due to incompatibility with actual conditions, or artesian conditions are encountered. The well and plugging records should be sent to the NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410.

If you have any questions regarding this permitting action, please feel free to contact me at (505) 383-4571.

Sincerely,

Miles Juett

Assistant Watermaster

Water Rights Division - District V

Enclosures

cc: Aztec Reading (w/o enclosures)

SJ-4380 File WATERS

Eddie Hubbert, Animas Environmental, via email: ehubbert@animasenvironmental.com

# OFFICE OF THE STATE ENGINEER/INTERSTATE STREAM COMMISSION — AZTEC OFFICE

0: + bd	DOLLARS CASH: CHECK NO.: #13456	CECETAED BY:  Original to payor; pink copy to Program Support/ASD; yellow copy opies and submit to Program Support/ASD as part of the daily deposit.	C. Well Driller Fees  1. Application for Well Driller's License 2. Application for Renewal of Well Driller's License \$ 50,00	D. Reproduction of Documents  © 254/copy  Map(s)  *	E. Certification  F. *Credit Card Convenience Fee	G. Others	O Harvest Midstream Trunks release site		
DATE: 2-18-2030 FILE NO.:	ESS: P.D. BOX &	opriate type of filing. Complete the receipt information. (being filed. If a mistake is made, void the original and all o	B. Surface Water Filing Fees  1. Change of Ownership of a Water Right \$ 5.00  2. Declaration of Water Right \$ 10.00  3. Amended Declaration \$ 25.00  4. Application to Change Point of Diversion	and Place and/or Purpose of Use from Surface Water to Surface Water  5. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Surface Water  6. Application to Change Point of	7. Application to Change Place and/or Purpose of Use \$ 100.00  8. Application to Appropriate \$ 25.00  9. Notice of Intent to Appropriate \$ 25.00	Application for Extension of Time  Supplemental Well to a Surface Right \$  Return Flow Credit \$  Proof of Completion of Works \$	15. Water Development Plan \$ 25.00  15. Water Development Plan \$ 100.00  16. Declaration of Livestock Water \$ 10.00  17. Application for Livestock Water \$ 10.00  Impoundment \$ 10.00	64	All fees are non-refundable.
OFFICIAL RECEIPT NUMBER: 5 - 6546	PAYOR: Animas Environmental	INSTRUCTIONS: Indicate the number of actions to the left remains in district office; and goldenrod copy to accompany	A. Ground Water Filing Fees  1. Change of Ownership of Water Right \$ 2.00  2. Application to Appropriate or Supplement Domestic 72-12-1 Well \$ 125.00  3. Application to Repair or Deepen	4. Application for Replacement 72-12-1 Well \$ 75.00   5. Application to Change Purpose of Use 72-12-1 Well \$ 75.00   6. Application for Stock Well/Temp. Use \$ 5.00	7. Application to Appropriate Irrigation, Municipal, or Commercial Use	Application for Supplemental Non 72-12-1 Well Purpose of Use Non 72-12-1 Well	11. Application to Change Point of Diversion and Place and/or Purpose of Use from Surface Water to Ground Water \$ 50.00  12. Application to Change Point of Diversion and Place and/or Purpose of Use from Ground Water to Ground Water \$ 50.00  13. Application to Change Point of	* well *	

File No. SJ-4380 POD1-9

# **NEW MEXICO OFFICE OF THE STATE ENGINEER**



# WR-07 APPLICATION FOR PERMIT TO DRILL A WELL WITH NO WATER RIGHT



(check applicable box):

		fees, see State Engineer			
Purpose:		Pollution Control And/Or Recovery		☐ Ground S	ource Heat Pump
☐ Exploratory Well (Pump test)		Construction Site/Publi Works Dewatering	ic	Other(Des	scribe): Soil Vapor Extraction
☐ Monitoring Well		Mine Dewatering			
A separate permit will be required	i to appl	y water to beneficial use	e regardless if u	se is consumpti	ve or nonconsumptive.
☐ Temporary Request - Request	ted Start	t Date: 2212028 3-	9-2020	Requested E	End Date: 2/12/2022
Plugging Plan of Operations Subn	mitted?	Yes No			
			4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I I SWIII	
ADDI ICANT/S\					
				l les	
Name: Harvest Four	Corn	ers, LLC	Name:		vironmental Services
Name: Harvest Four		ers, LLC		erik	vironmental Services
Kinechoos			Endin Hubba	erk Agent:	
Name: Harvest Four Killed Hoog Contact or Agent: Kijun Hong			Eddie Hu	erk Agent: bbert	
Name: Harvest Four Kines Hors Contact or Agent:			Eddie Hu  Mailing Add	Agent: bbert lress:	
Name: Harvest Four Kijum Hong Kijun Hong Mailing Address: 1755 Arroyo Dr.			Eddie Hu	Agent: bbert lress:	
Name: Harvest Four Kinchloog Contact or Agent: Kijun Hong Mailing Address:			Eddie Hu  Eddie Hu  Mailing Add 624 E. Coma	Agent: bbert lress:	
Name: Harvest Four Killenhoog  Contact or Agent:  Kijun Hong  Mailing Address: 1755 Arroyo Dr.  City: Bloomfield  State:		here if Agent	Endinthusta  Contact or A  Eddie Hu  Mailing Add 624 E. Coma  City: Farmington  State:	Agent: bbert lress:	check here if Agent   Zip Code:
Name: Harvest Four Kijun-Hong Contact or Agent: Kijun Hong Mailing Address: 1755 Arroyo Dr. City: Bloomfield State: NM	check	there if Agent  de: 87413	Eddie Hu  Mailing Add 624 E. Coma City: Farmington State: NM	Agent: bbert dress: anche St	check here if Agent   Zip Code: 87401
Name: Harvest Four Kijum Hong Contact or Agent: Kijun Hong Mailing Address: 1755 Arroyo Dr. City: Bloomfield State: NM Phone: 505-436-8457	check	here if Agent	Eddie Hu  Mailing Add 624 E. Coma City: Farmington State: NM Phone: 505	Agent: bbert liress: anche St	check here if Agent   Zip Code:
Name: Harvest Four Kitikh Hong Contact or Agent: Kijun Hong Mailing Address: 1755 Arroyo Dr. City: Bloomfield State:	check	there if Agent  de: 87413	Eddie Hu  Mailing Add 624 E. Coma City: Farmington State: NM	Agent: bbert liress: anche St	check here if Agent   Zip Code: 87401
Name: Harvest Four Kijum Hong Contact or Agent: Kijun Hong Mailing Address: 1755 Arroyo Dr. City: Bloomfield State: NM Phone: 505-436-8457	check	there if Agent  de: 87413	Eddie Hu  Mailing Add 624 E. Coma City: Farmington State: NM Phone: 505	Agent: bbert dress: anche St564-2281 rk):	check here if Agent   Zip Code: 87401

1FEB 18 PM 3:58	0202
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AZTEC, NEW MEXICO _	
STATE ENGINEER OFFICE	

Application for Permit, Form V	VR-07, Rev 11/17/16
Tm. No.:	Receipt No.: 5-6546
PCW/LOG	Due Date: 3-5-2021
	Trn. No.:

### 2. WELL(S) Describe the well(s) applicable to this application.

■ xxxxx StatecRtarec(NAD88)x ■ xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx		JTM (NAD83) (Me ]Zone 12N ]Zone 13N	E Lavi	ong (WGS84) (to the nearest second)
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	Provide if known: -Public Land Survey Syste (Quarters or Haives, Sec - Hydrographic Survey Ma - Lot, Block & Subdivision - Land Grant Name	tion, Township, Range) OR p & Tract; OR
(SJ-4380 POD1) SVE-1	-107.180850	36.411810	NW/4 NE/4 SE/4, S	ec. 7, T25N, R3W
(POD2) SVE-2	-107.180779	36.411803	п	n and a
(POD3) SVE-3	-107.180942	36.411819	11	- 11
(POD4) SVE-4	-107.180951	36.411755	11	11
(POD5) SVE-5	-107.180842	36.411757	11	n III
Additional well descriptions	s are attached: 🔳	Yes No	m WR-08 (Attachment 1 – POI If yes, how many	
Other description relating wel Trunk S Release si Ranch.	to common landmark te located app	s, streets, or other	Site also known as northwest of NM HW	Harvest Midstream Y 537 on Schmitz
Well is on land owned by:	Schmitz Rand	ch .		
Well Information: NOTE: If r	nore than one (1) we	ell needs to be de	escribed, provide attachment.	Attached? ☐ Yes ☐ No
Approximate depth of well (fe	et): 55 feet		Outside diameter of well casing	(inches): 2-inch
Oriller Name: Rodgers and Co	трапу		Driller License Number: WD#22	5

SVE-1 is an existing well which was mistakenly drilled without permit approval.

3050 LEB 18 LW 3: 28



FOR OSE INTERNAL USE	Application for Permit, Form WR-07					
File No.: SJ-4380	Tm No.:					

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application: Pollution Control and/or Recovery: **Exploratory:** Construction Mine De-Watering: ☐ Include a Include a plan for pollution De-Watering: ☐ Include a plan for pollution description of control/recovery, that includes the Include a description of the control/recovery, that includes the following: any proposed following: proposed dewatering A description of the need for mine pump test, if A description of the need for the operation. dewatering. pollution control or recovery operation. applicable. The estimated duration of The estimated maximum period of time ☐ The estimated maximum period of the operation, for completion of the operation. ☐ The source(s) of the water to be diverted. ☐ The geohydrologic characteristics of the time for completion of the operation. ☐ The maximum amount of ☐ The annual diversion amount. water to be diverted, The annual consumptive use ☐ A description of the need aquifer(s). amount. for the dewatering operation. The maximum amount of water to be ☐ The maximum amount of water to be diverted per annum. diverted and injected for the duration of A description of how the ☐The maximum amount of water to be the operation. diverted water will be disposed diverted for the duration of the operation. ☐ The method and place of discharge. ☐The quality of the water. Monitoring: ☐ The method of measurement of Ground Source Heat Pump: ☐ The method of measurement of water water produced and discharged. Include the Include a description of the diverted. ☐ The source of water to be injected. ☐ The method of measurement of reason for the geothermal heat exchange ■The recharge of water to the aquifer. Description of the estimated area of monitoring project, well, and, water injected. ☐ The number of boreholes hydrologic effect of the project. ☐ The characteristics of the aquifer.☐ The method of determining the ™ The for the completed project and The method and place of discharge. An estimation of the effects on surface duration required depths. of the planned resulting annual consumptive use of ☐ The time frame for water rights and underground water rights monitoring. water and depletion from any related constructing the geothermal from the mine dewatering project. stream system. heat exchange project, and, A description of the methods employed to Proof of any permit required from the ☐ The duration of the project. ☐ Preliminary surveys, design estimate effects on surface water rights and New Mexico Environment Department. underground water rights. An access agreement if the Information on existing wells, rivers, data, and additional applicant is not the owner of the land on information shall be included to springs, and wetlands within the area of which the pollution plume control or provide all essential facts hydrologic effect. recovery well is to be located. relating to the request. **ACKNOWLEDGEMENT** I, We (name of applicant(s)) Print Name(s) affirm that the foregoing statements are true to the best of (my, our) knowledge and belief. **Applicant Signature ACTION OF THE STATE ENGINEER** This application is: ☑ approved partially approved ☐ denied provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation avaitable in Newscars. Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval. 5th day of March 20 20 , for the State Engineer, Witness my hand and seal this John R. D'Antonio, Jr., P.E. Miles Juett Title: Assistant Watermaster Print Application for Permit, Form WR-07 FOR OSE INTERNAL USE File No.: SJ-4380 POD1-9

Tm No.:



# **NEW MEXICO OFFICE OF THE STATE ENGINEER**



# ATTACHMENT 1 POINT OF DIVERSION DESCRIPTIONS

This Attachment is to be completed if more than one (1) point of diversion is described on an Application or Declaration.

a. Is this a:			b. Inform	ation on Attachment(s):				
☐ Move-From Point of Di	version(s)		Number of points of diversion involved in the application: 9					
Move-To Point of Diver				ber of pages attached to t				
☐ Surface Point of Diversion	OR	■ Well						
Name of ditch, acequia,	or spring:	II =	- B N					
Stream or water course:								
Tributary of:								
c. Location (Required): Required: Move to POD location	coordinate must l	be either New Mex	rico State Pl	ane (NAD 83), UTM (NAD	83), or Lat/Long (WGS84)			
NM State Plane (NAD83)	UTM (NAD83)			OTHER (allowable on	ly for move-from			
(feet) NM West Zone	(meters)	X Lat/	Long-	✓ PLSS (quarters, see	lication form for format) ection, township, range)			
NM Central Zone	Zone 13N  Zone 12N	(WGS84	4) f second	☐ Hydrographic Sun	vey, Map & Tract			
NM East Zone	Zone IZN	1/10 01	secona	Lot, Block & Subd	ivision			
POD Number:	X or Longitude	Y or Lati	tude	Other Location Descri	ption:			
(POD6) SVE-6	-107.180878	36.41	1895	NW/4 NE/4 SE/4,	Sec. 7, T25N, R3W			
POD Number:	X or Longitude	Y or Lati	tude	Other Location Descri	ption:			
(POD7) SVE-7	-107.180784	36,41	1893	IT	11			
POD Number:	X or Longitude	Y or Latin	lude	Other Location Descri	ption:			
(POD8) SVE-8	-107.180994	36.41	1863	11	11			
POD Number:	X or Longitude	Y or Latit	ude	Other Location Descrip	otion:			
(POD9) SVE-9	-107.180873	36.41	1914	11	11			
POD Number:	X or Longitude	Y or Latit	ude	Other Location Descrip	otion:			
POD Number:	X or Longitude	Y or Latit	ude	Other Location Descrip	otion:			
POD Number:	X or Longitude	Y or Latit	ude	Other Location Descrip	otion:			
POD Number:	X or Longitude	Y or Latit	ude	Other Location Descrip	otion:			
POD Number:	X or Longitude	Y or Latit	uđe	Other Location Descrip	otion:			

7070 LEB 18 by 3:28

STATE ENGINEER OFFICE AZTEC, NEW MEXICO

FOR OSE INTERNAL USE

Form wr-08

**POD DESCRIPTIONS - ATTACHMENT 1** 

File Number: SJ-4380 POD1-9	Tm Number:	
Trans Description (optional):		

### NMOSE Permit to Drill a Well(s) With No Water Right Conditions of Approval SJ-4380 POD1 – POD9

The New Mexico Office of the State Engineer (NMOSE) has determined that existing water rights will not be impaired by this activity. This application is approved without publication provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state. This application approval (i.e., permit) is further subject to the following conditions of approval.

### 1. This permit is approved as follows:

Permittee(s):

Harvest Four Corners, LLC

1755 Arroyo Dr.

Bloomfield, NM 87413

Permit Number:

SJ-4380

Application File Date:

February 18, 2020

Priority:

N/A

Source:

Groundwater

Point(s) of Diversion:

Nine points of diversion (POD), SJ-4380 POD1 through POD9 (Tables 1 and 2), will be used. The PODs consist of one existing and eight new monitoring wells that will be used for soil vapor extraction. The method for soil vapor extraction approved by this permit does not produce groundwater. The wells are all located at the Harvest Midstream Truchk S Release site. The facility is located approx. 0.5 mi. northwest of NM HWY 537 on Schmitz Ranch land, in Rural Rio Arriba County, New Mexico. The PODs will be located within the NW/4 NE/4 SE/4 Section 7, Township 25 North, Range 3 West, NMPM, at the following approximate point locations (Lat/Long).

Table 1: Existing Monitoring Well

POD Name and Owner's Well Identification	Longitude (decimal degrees, W)	Latitude (decimal degrees, N)
SJ-4380 POD1 (SVE-1)	107.18085	36.41181

Table 2: New Monitoring Wells

POD Name and Owner's Well Identification	Longitude (decimal degrees, W)	Latitude (decimal degrees, N)
SJ-4380 POD2 (SVE-2)	107.180779	36.411803
SJ-4380 POD3 (SVE-3)	107.180942	36.411819
SJ-4380 POD4 (SVE-4)	107.180951	36.411755
SJ-4380 POD5 (SVE-5)	107.180842	36.411757
SJ-4380 POD6 (SVE-6)	107.180878	36.411895
SJ-4380 POD7 (SVE-7)	107.180784	36.411893
SJ-4380 POD8 (SVE-8)	107.180994	36.411863

### Conditions of Approval

March 5, 2020

SJ-4380 POD9 (SVE-9)	107.180873	36.411914
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Purpose of Use: Groundwater monitoring and sampling, and Pollution Recovery

Place of Use: N/A

Amount of Water: N/A

- 2. No water shall be appropriated and beneficially used from any wells or borings approved under this permit.
- 3. No water shall be diverted from the well(s) except for initial well development and periodic sampling purposes. Upon completion of monitoring activities the well(s) shall be plugged in accordance with Subsection C of 19.27.4.30 NMAC, unless a permit to use water is acquired from the NMOSE.
- 4. The well(s) may continue to be used indefinitely for groundwater sampling or monitoring required for the current site investigation and any associated remediation, so long as they remain in good repair. A new permit shall be obtained from the NMOSE prior to replacing a well(s) or for any change in use as approved herein.
- 5. Water well drilling and well drilling activities, including well plugging, are regulated under NMOSE Regulations 19.27.4 NMAC. These regulations apply, and provide both general and specific direction regarding the drilling of wells in New Mexico. Note that the construction of any well that allows groundwater to flow uncontrolled to the land surface or to move appreciably between geologic units is prohibited.
- 6. In accordance with Subsection A of 19.27.4.29 NMAC, on-site supervision of well drilling/plugging is required by the holder of a New Mexico Well Driller License or a NMOSE-registered Drill Rig Supervisor. The New Mexico licensed Well Driller shall ensure that well drilling activities are completed in accordance with 19.27.4.29, 19.27.4.30 and 19.27.4.31 NMAC. However, pursuant to 72-12-12 NMSA 1978 and 19.27.4.8 NMAC, a driller's license is not required for the construction of a driven well with an outside casing diameter of 21/8 inches or less and that does not require the use of a drill rig (e.g., auger) for installation. This exemption is not applicable to well plugging.
- 7. The permittee has not stated whether artesian conditions are likely to be encountered at the proposed well/borehole location(s). However, if artesian conditions are encountered during drilling, all rules and regulations pertaining to the drilling and casing and plugging of artesian wells shall be followed.
- 8. A Well Record documenting the as-built well construction and materials used shall be filed for each of the wells in accordance with Subsection N of 19.27.4.29 NMAC. Well Records shall be filed with the State Engineer (NMOSE District V, 100 Gossett Drive, Suite A, Aztec, NM, 87410) within 30 days after completion of the well(s). Well installation(s) shall be complete and the well record(s) filed no later than one year from the date of approval of this permit. The required Well Record form is available at http://www.ose.state.nm.us/WR/forms.php.
- 9. If the required Well Record documentation is not received within one year of the date of permit approval, this permit will automatically expire.

obtained prior to the initiation of any well plugging activities.

March 5, 2020

### Conditions of Approval

10. When the permittee receives approval or direction to permanently abandon the well(s)/borehole(s) covered by this permit, plugging shall be performed by a New Mexico licensed well driller. The well(s)/borehole(s) shall be plugged pursuant to Subsection C of 19.27.4.30 NMAC using the following method, unless an alternate plugging method has been proposed by or on behalf of the well owner and approved by the NMOSE. If a well/borehole has encountered artesian conditions, a Well Plugging Plan of Operations shall be submitted and NMOSE approval obtained *prior* to the initiation of *any* well plugging activities concerning artesian wells. Additionally, if the following standardized plugging sealant is not appropriate for use due to incompatibility with the water quality or any soil and water

a. Obstructions in a well/borehole shall be identified and removed if possible. If an obstruction cannot be removed, the method used to grout below and around the obstruction shall be described in detail in the plugging record.

contaminates encountered, a Well Plugging Plan of Operations shall be submitted and NMOSE approval

- b. Prior to plugging, calculate the theoretical volume of sealant needed for abandonment of the well/borehole based on the actual measured pluggable depth of the well/borehole and the volume factor for the casing/borehole diameter. Compare the actual volume of sealant placed in the well/borehole with the theoretical volume to verify the actual volume of sealant is equal to or exceeds the theoretical volume.
- c. Portland Type I/II cement shall be used for the plugging sealant. The water mixed with the cement to create the plugging sealant shall be potable water or of similar quality. Portland cement has a fundamental water demand of 5.2 gallons of water per 94-lb sack of cement. Up to a maximum of 6.0 gallons per 94-lb sack is acceptable to allow for greater pumpability.

Pure bentonite powder ("90 barrel yield") is allowed as a cement additive by NMOSE and American Water Works Association (AWWA) guidelines. If a bentonite additive is used, the following rates and mixing guidelines shall be followed. For a rate or a mixing procedure other than that provided below, the NMOSE District V office must be contacted for pre-approval. Neither granular bentonite nor extended-yield bentonite shall be mixed with cement for the purpose of this plugging activity. When supplementing a cement slurry with bentonite powder, water demand for the mix increases at a rate of approximately 0.65 gallon of water for each 1% increment of bentonite bdwc (by dry weight cement) above the stated base water demand of 5.2 gallons water per 94-lb sack of cement for neat cement. Bentonite powder must be hydrated separately with its required increment of water before being mixed into the wet neat cement. If water is otherwise added to the combination of dry ingredients or the dry bentonite is blended into wet cement, the alkalinity of the cement will restrict the yield of the bentonite powder, resulting in excess free water in the slurry and excessive cement shrinkage upon curing.

- d. Placement of the sealant within the well/borehole shall be by pumping through a tremie pipe extended to near the bottom of the well/borehole and kept below the top of the slurry column (i.e., immersed in the slurry) as the well/borehole is plugged from bottom upwards in a manner that displaces the standing water column.
- e. Prior to, or upon completion of plugging, the well casing may be cut-off below grade as necessary to allow for approved construction onsite, provided a minimum six-inch thickness of reinforced abandonment plugging sealant or concrete completely covers the top of the cut-off casing. Any remaining void to the surface may be filled with native soil, concrete, or asphalt as needed to match the surrounding surface material and blended with the surface topography to prevent ponding.

Conditions of Approval

March 5, 2020

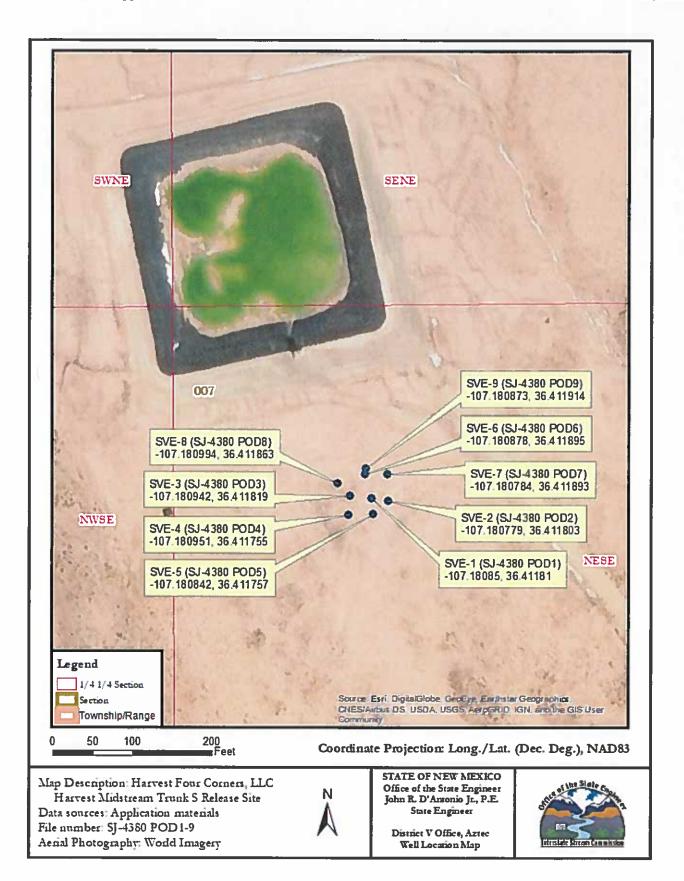
- f. Within 30 days after completion of well/borehole plugging, a complete Plugging Record shall be filed with the State Engineer in accordance with Paragraph (3) of Subsection C of 19.27.4.30 NMAC for each well/boring plugged. The Well Plugging Record(s) shall be filed with the State Engineer at the NMOSE District V Office, 100 Gossett Drive, Suite A, Aztec, NM 87410. The required Plugging Record form is available at <a href="http://www.ose.state.nm.us/WR/forms.php">http://www.ose.state.nm.us/WR/forms.php</a>.
- In accordance with Subsection C of 19.27.4.30 NMAC, a well/borehole that does not encounter groundwater may be immediately plugged by filling with drill cuttings or clean native fill to within 10 feet of land surface and by plugging the remaining 10 feet to the land surface with a sealant approved by the Office of the State Engineer. A Plugging Record shall be filed with the State Engineer as described above.
- 12. Should another regulatory agency sharing jurisdiction of the project authorize, or by regulation require, more stringent requirements than stated herein, the more stringent procedure should be followed. These, among others, may include provisions regarding pre-authorization to proceed, type of methods and materials used, inspection, or prohibition of free discharge of any fluid or other material to or from the well that is related to the drilling and/or monitoring process.
- 13. Pursuant to 72-12-3 NMSA 1978, the applicant has provided written documentation with the application, which the applicant claims as confirmation that access has been or will be granted for the aforementioned well(s) to be located on property owned by someone other than the well owner/applicant. NMOSE approval of this permit in no way infers the right of access to land not owned by the well owner/applicant.
- 14. The State Engineer retains jurisdiction of this permit.

The application for permitting one existing well and drilling eight new well(s) <u>SJ-4380 POD1-POD9</u> without a water right, submitted on <u>February 18, 2020</u>, is hereby approved with the aforesaid conditions applied, when signed by an authorized designee of the State Engineer:

Witness my hand and seal this 5th day of March, A.D. 2020. John R. D'Antonio, Jr., P.E., State Engineer

By:

Miles Juett, Assistant Watermaster District V Office, Water Rights Division





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

OrderNo.: 1907148

July 08, 2019

Kijun Hong

Harvest

1755 Arroyo Dr.

Bloomfield, NM 87413

TEL: FAX:

RE: Trunk S Pipeline Release

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 9 sample(s) on 7/3/2019 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# Lab Order **1907148**Date Reported: **7/8/2019**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest

Client Sample ID: Floor @ 30'

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 1:20:00 PM

 Lab ID:
 1907148-001
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	7/3/2019 5:33:28 PM	46014
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	JME
Diesel Range Organics (DRO)	110	9.3		mg/Kg	1	7/5/2019 9:52:23 AM	46009
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/5/2019 9:52:23 AM	46009
Surr: DNOP	99.8	70-130		%Rec	1	7/5/2019 9:52:23 AM	46009
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	120	25		mg/Kg	5	7/4/2019 3:23:44 PM	46006
Surr: BFB	214	73.8-119	S	%Rec	5	7/4/2019 3:23:44 PM	46006
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12		mg/Kg	5	7/4/2019 3:23:44 PM	46006
Toluene	0.61	0.25		mg/Kg	5	7/4/2019 3:23:44 PM	46006
Ethylbenzene	0.31	0.25		mg/Kg	5	7/4/2019 3:23:44 PM	46006
Xylenes, Total	5.4	0.49		mg/Kg	5	7/4/2019 3:23:44 PM	46006
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	5	7/4/2019 3:23:44 PM	46006

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

### 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 Quanitative Limit

- 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 Limit

Page 1 of 14

### Lab Order **1907148**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/8/2019

CLIENT: Harvest Client Sample ID: Wall @ 15'

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 1:25:00 PM

 Lab ID:
 1907148-002
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	7/3/2019 5:45:52 PM	46014
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	1400	99		mg/Kg	10	7/5/2019 2:36:36 PM	46009
Motor Oil Range Organics (MRO)	ND	490	D	mg/Kg	10	7/5/2019 2:36:36 PM	46009
Surr: DNOP	0	70-130	S	%Rec	10	7/5/2019 2:36:36 PM	46009
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	16000	1000		mg/Kg	200	7/4/2019 3:46:26 PM	46006
Surr: BFB	169	73.8-119	S	%Rec	200	7/4/2019 3:46:26 PM	46006
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	40	0.50		mg/Kg	20	7/4/2019 9:43:58 AM	46006
Toluene	420	10		mg/Kg	200	7/4/2019 3:46:26 PM	46006
Ethylbenzene	66	1.0		mg/Kg	20	7/4/2019 9:43:58 AM	46006
Xylenes, Total	710	20		mg/Kg	200	7/4/2019 3:46:26 PM	46006
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	200	7/4/2019 3:46:26 PM	46006

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

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 Quanitative 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 Limit

Page 2 of 14

### Lab Order **1907148**

Date Reported: 7/8/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: Surface @ 01'

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 1:30:00 PM

 Lab ID:
 1907148-003
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	4900	300	mg/Kg	100	7/5/2019 10:53:02 AM	46014
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/5/2019 10:40:14 AM	46009
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/5/2019 10:40:14 AM	46009
Surr: DNOP	100	70-130	%Rec	1	7/5/2019 10:40:14 AM	46009
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2019 10:51:52 AM	46006
Surr: BFB	117	73.8-119	%Rec	1	7/4/2019 10:51:52 AM	46006
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/4/2019 10:51:52 AM	46006
Toluene	ND	0.048	mg/Kg	1	7/4/2019 10:51:52 AM	46006
Ethylbenzene	ND	0.048	mg/Kg	1	7/4/2019 10:51:52 AM	46006
Xylenes, Total	0.17	0.095	mg/Kg	1	7/4/2019 10:51:52 AM	46006
Surr: 4-Bromofluorobenzene	92.6	80-120	%Rec	1	7/4/2019 10:51:52 AM	46006

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

### 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 Quanitative Limit

- 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 Limit

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### Lab Order **1907148**

Date Reported: 7/8/2019

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest

Client Sample ID: PH01 @ 01'

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 1:35:00 PM

 Lab ID:
 1907148-004
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	2300	150	mg/Kg	50	7/5/2019 11:05:27 AM	46014
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/5/2019 11:04:16 AM	46009
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/5/2019 11:04:16 AM	46009
Surr: DNOP	89.3	70-130	%Rec	1	7/5/2019 11:04:16 AM	46009
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2019 11:14:30 AM	46006
Surr: BFB	107	73.8-119	%Rec	1	7/4/2019 11:14:30 AM	46006
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/4/2019 11:14:30 AM	46006
Toluene	ND	0.049	mg/Kg	1	7/4/2019 11:14:30 AM	46006
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2019 11:14:30 AM	46006
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2019 11:14:30 AM	46006
Surr: 4-Bromofluorobenzene	95.7	80-120	%Rec	1	7/4/2019 11:14:30 AM	46006

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

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 Quanitative Limit

- 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 Limit

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### Lab Order **1907148**

Date Reported: 7/8/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: PH 01 @ 05'

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 1:40:00 PM

 Lab ID:
 1907148-005
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	2200	59	mg/Kg	20	7/3/2019 6:23:06 PM	46014
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/5/2019 11:28:23 AM	46009
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/5/2019 11:28:23 AM	46009
Surr: DNOP	103	70-130	%Rec	1	7/5/2019 11:28:23 AM	46009
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2019 11:37:05 AM	46006
Surr: BFB	107	73.8-119	%Rec	1	7/4/2019 11:37:05 AM	46006
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst:	NSB
Benzene	ND	0.024	mg/Kg	1	7/4/2019 11:37:05 AM	46006
Toluene	ND	0.049	mg/Kg	1	7/4/2019 11:37:05 AM	46006
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2019 11:37:05 AM	46006
Xylenes, Total	ND	0.097	mg/Kg	1	7/4/2019 11:37:05 AM	46006
Surr: 4-Bromofluorobenzene	97.6	80-120	%Rec	1	7/4/2019 11:37:05 AM	46006

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

### 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 Quanitative 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 Limit

Page 5 of 14

### Lab Order **1907148**

Date Reported: 7/8/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: PH 02 @ 01'

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 1:45:00 PM

 Lab ID:
 1907148-006
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: smb
Chloride	2400	150	mg/Kg	50	7/5/2019 11:17:51 AM	46014
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/5/2019 11:52:37 AM	46009
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/5/2019 11:52:37 AM	46009
Surr: DNOP	94.9	70-130	%Rec	1	7/5/2019 11:52:37 AM	46009
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2019 11:59:40 AM	46006
Surr: BFB	104	73.8-119	%Rec	1	7/4/2019 11:59:40 AM	46006
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/4/2019 11:59:40 AM	46006
Toluene	ND	0.048	mg/Kg	1	7/4/2019 11:59:40 AM	46006
Ethylbenzene	ND	0.048	mg/Kg	1	7/4/2019 11:59:40 AM	46006
Xylenes, Total	ND	0.097	mg/Kg	1	7/4/2019 11:59:40 AM	46006
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	7/4/2019 11:59:40 AM	46006

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

### 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 Quanitative Limit

- 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 Limit

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### Lab Order 1907148

Date Reported: 7/8/2019

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest

Client Sample ID: PH 02 @ 05'

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 1:50:00 PM

 Lab ID:
 1907148-007
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	7/3/2019 6:47:54 PM	46014
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/5/2019 12:16:54 PM	46009
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/5/2019 12:16:54 PM	46009
Surr: DNOP	143	70-130	S	%Rec	1	7/5/2019 12:16:54 PM	46009
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/4/2019 12:22:18 PM	46006
Surr: BFB	103	73.8-119		%Rec	1	7/4/2019 12:22:18 PM	46006
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	7/4/2019 12:22:18 PM	46006
Toluene	ND	0.050		mg/Kg	1	7/4/2019 12:22:18 PM	46006
Ethylbenzene	ND	0.050		mg/Kg	1	7/4/2019 12:22:18 PM	46006
Xylenes, Total	ND	0.10		mg/Kg	1	7/4/2019 12:22:18 PM	46006
Surr: 4-Bromofluorobenzene	94.6	80-120		%Rec	1	7/4/2019 12:22:18 PM	46006

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

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 Quanitative Limit

- 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 Limit

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### Lab Order **1907148**

Date Reported: 7/8/2019

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest Client Sample ID: UG 01

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 2:00:00 PM

 Lab ID:
 1907148-008
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	1300	60	mg/Kg	20	7/3/2019 7:00:18 PM	46014
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/5/2019 11:26:44 AM	46009
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/5/2019 11:26:44 AM	46009
Surr: DNOP	97.0	70-130	%Rec	1	7/5/2019 11:26:44 AM	46009
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2019 12:44:57 PM	46006
Surr: BFB	107	73.8-119	%Rec	1	7/4/2019 12:44:57 PM	46006
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	7/4/2019 12:44:57 PM	46006
Toluene	ND	0.050	mg/Kg	1	7/4/2019 12:44:57 PM	46006
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2019 12:44:57 PM	46006
Xylenes, Total	ND	0.099	mg/Kg	1	7/4/2019 12:44:57 PM	46006
Surr: 4-Bromofluorobenzene	98.4	80-120	%Rec	1	7/4/2019 12:44:57 PM	46006

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

### 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 Quanitative Limit

- 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 Limit

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# Lab Order **1907148**Date Reported: **7/8/2019**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Harvest

Client Sample ID: UG 02

 Project:
 Trunk S Pipeline Release
 Collection Date: 7/2/2019 2:05:00 PM

 Lab ID:
 1907148-009
 Matrix: SOIL
 Received Date: 7/3/2019 8:12:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	smb
Chloride	3300	150	mg/Kg	50	7/5/2019 11:30:16 AM	46014
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/5/2019 11:48:50 AM	46009
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2019 11:48:50 AM	46009
Surr: DNOP	94.7	70-130	%Rec	1	7/5/2019 11:48:50 AM	46009
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2019 1:07:35 PM	46006
Surr: BFB	105	73.8-119	%Rec	1	7/4/2019 1:07:35 PM	46006
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	7/4/2019 1:07:35 PM	46006
Toluene	ND	0.050	mg/Kg	1	7/4/2019 1:07:35 PM	46006
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2019 1:07:35 PM	46006
Xylenes, Total	ND	0.10	mg/Kg	1	7/4/2019 1:07:35 PM	46006
Surr: 4-Bromofluorobenzene	96.5	80-120	%Rec	1	7/4/2019 1:07:35 PM	46006

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

### 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 Quanitative Limit

- 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **1907148** 

08-Jul-19

**Client:** Harvest

**Project:** Trunk S Pipeline Release

Sample ID: MB-46014 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 46014 RunNo: 61134

Prep Date: 7/3/2019 Analysis Date: 7/3/2019 SeqNo: 2072944 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-46014 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 46014 RunNo: 61134

Prep Date: 7/3/2019 Analysis Date: 7/3/2019 SeqNo: 2072945 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.1 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 Quanitative 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 Limit

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### Hall Environmental Analysis Laboratory, Inc.

9.0

WO#: **1907148** 

08-Jul-19

Client: Harvest

Surr: DNOP

**Project:** Trunk S Pipeline Release

Sample ID: MB-45994 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 45994 RunNo: 61163 Prep Date: 7/3/2019 Analysis Date: 7/5/2019 SeqNo: 2072907 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 8.3 10.00 83.3 70 130

Sample ID: MB-46009 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 46009 RunNo: 61163 Prep Date: 7/3/2019 Analysis Date: 7/5/2019 SeqNo: 2072908 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result PQL HighLimit %RPD Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

89.5

70

130

Sample ID: LCS-45994 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 45994 RunNo: 61163 Prep Date: 7/3/2019 Analysis Date: 7/5/2019 SeqNo: 2072909 Units: %Rec HighLimit SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit Qual

Surr: DNOP 4.0 5.000 80.7 70 130

10.00

Sample ID: LCS-46009 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 46009 RunNo: 61163 Analysis Date: 7/5/2019 Prep Date: 7/3/2019 SeqNo: 2072910 Units: mq/Kq Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 56 10 50.00 0 111 63.9 124 Surr: DNOP 5.000 5.4 109 70 130

Sample ID: 1907148-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Floor @ 30' Batch ID: 46009 RunNo: 61163 Prep Date: 7/3/2019 Analysis Date: 7/5/2019 SeqNo: 2074197 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 140 9.8 48.88 106.5 77.8 57 142 Surr: DNOP 4.6 4.888 94 3 70 130

Sample ID: 1907148-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Floor @ 30' Batch ID: 46009 RunNo: 61163 Prep Date: 7/3/2019 Analysis Date: 7/5/2019 SeqNo: 2074198 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 150 10 49.85 106.5 92.0 142 5.29

### 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 Quanitative 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

5.2

WO#: **1907148** 

08-Jul-19

**Client:** Harvest

Surr: DNOP

**Project:** Trunk S Pipeline Release

Sample ID: 1907148-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: Floor @ 30' Batch ID: 46009 RunNo: 61163

Prep Date: 7/3/2019 Analysis Date: 7/5/2019 SeqNo: 2074198 Units: mg/Kg

4.985

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

70

104

130

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 Quanitative 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **1907148** 

08-Jul-19

Client: Harvest

**Project:** Trunk S Pipeline Release

Sample ID: MB-46006 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 46006 RunNo: 61152

Prep Date: 7/3/2019 Analysis Date: 7/4/2019 SeqNo: 2072252 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 1100 1000 105 73.8 119

Sample ID: LCS-46006 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 46006 RunNo: 61152

Prep Date: 7/3/2019 Analysis Date: 7/4/2019 SeqNo: 2072253 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 96.4 80.1 123 Surr: BFB 1200 1000 120 73.8 S 119

### 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 Quanitative 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 Limit

# Hall Environmental Analysis Laboratory, Inc.

1.1

SampType: MBLK

WO#: 1907148

08-Jul-19

**Client:** Harvest

Sample ID: MB-46006

**Project:** Trunk S Pipeline Release

PBS Client ID: Batch ID: 46006 RunNo: 61152

Prep Date: 7/3/2019 Analysis Date: 7/4/2019 SeqNo: 2072290 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene ND 0.025

TestCode: EPA Method 8021B: Volatiles

Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

1.000 Surr: 4-Bromofluorobenzene 0.97 97.2 80 120

1.000

Sample ID: LCS-46006 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 46006 RunNo: 61152 Units: mg/Kg Prep Date: 7/3/2019 Analysis Date: 7/4/2019 SeqNo: 2072291 PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 0 101 80 120 1.0 Benzene Toluene 1.0 0.050 1.000 0 100 80 120 0.050 0 98.5 80 120 Ethylbenzene 0.99 1.000 2.9 0.10 3.000 0 96.9 80 120

105

80

120

### Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Е Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: Harvest Work Order Number: 1907148 RcptNo: 1 Received By: Yazmine Garduno 7/3/2019 8:12:00 AM Completed By: Yazmine Garduno 7/3/2019 9:12:08 AM Abopaine léfordance Reviewed By: DAD 7/3/19 Chain of Custody Yes 🗸 1. Is Chain of Custody complete? No Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No NA No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 Yes 🗸 5. Sample(s) in proper container(s)? Yes 🗸 No Yes 🗸 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No No 🗸 8. Was preservative added to bottles? NA 🗌 Yes 9. VOA vials have zero headspace? No No VOA Vials Yes 10. Were any sample containers received broken? Yes No 🗸 # of preserved bottles checked for pH: 11. Does paperwork match bottle labels? Yes 🗸 No (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No Yes 🗸 13. Is it clear what analyses were requested? No Checked by: Ab 72/14 Yes 🗸 14. Were all holding times able to be met? No (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes \_ No 🗆 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal Intact Seal No Seal Date Signed By 1 4.8 Good Yes 2 3.9 Good Yes 3 7.8 Good Yes

	ANALYSIS LABORATORY	www hallenvironmental com	4901 Hawkins NE - Albuquerque, NM 87109	10	Analysis Request	†O9	B's NS , <sub>¢</sub> ,	) OS	(1 7S8 ,s	08/8/8-504 504 3, 10 8	GFG (S)	etha y 83 Ma str, str,	H:80- B (MHs b F, B F, B 70 (S	17PI 808 Aq CI CI 826 826									>> ===================================			CC: bherb @ Henv. com	dburns @ Henr. com	$  \mathcal{M}  _{\mathcal{L}}$ This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: Results by	□ Standard × Rush E0D 7-5-19	,	Trunk S Pipeline Release	Project #:	The second secon		long	Janny Burns	AS.	ON 🗆	43C+0.5CF: 4.6C	1. 3. 40+ 10.5ct. 29c	Container Preservative Laber No.	# Type   1407149	1.402 (00) 2011	1 200- 1 1	-003	100-	>00-	700-	100-	500-			)	Received by: Via: Date Time Re	Via: Date	
Chain-of-Custody Record	Client: Harvest Four Corners, UC		Mailing Address: 1755 Arava Dr	JM 87413	75	email or Fax#: Khong@horvest	QA/QC Package: J MidStream. Com	X Standard □ Level 4 (Full Validation)		□ Other	X EDD (Type)   から			Date Time Matrix Sample Name	7219 1320 S Floor @30'	1 1325 1 Wall @ 15'	1330   Sustace @ 01	1335   PHOI @01'	1340 PH 01 @05'	1345 PH02(201)	1350 PH02@05'	1400 NGOI	4 1405 V WG02			Date: Time: Relinquished by:	Relinquished by:	If necessary, camples submitted to Hall Environmental may be subconfracted to other accredited laboratories.



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

December 17, 2019

Elizabeth McNally Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX: (505) 324-2022

RE: Harvest Midstream Trunk S OrderNo.: 1911A22

### Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/21/2019 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

### Lab Order **1911A22**

Date Reported: 12/17/2019

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Client Sample ID: SB1@8'

Project: Harvest Midstream Trunk S

Collection Date: 11/19/2019 9:32:00 AM

Lab ID: 1911A22-001

Matrix: SOIL

Received Date: 11/21/2019 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed Bat	itch
EPA METHOD 300.0: ANIONS						Analyst: <b>CJ</b>	JS
Chloride	ND	60		mg/Kg	20	11/25/2019 5:35:32 PM 490	000
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: BR	₹М
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/25/2019 12:55:07 PM 489	972
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/25/2019 12:55:07 PM 489	972
Surr: DNOP	94.2	70-130		%Rec	1	11/25/2019 12:55:07 PM 489	972
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NS	3B
Gasoline Range Organics (GRO)	11	4.8		mg/Kg	1	11/23/2019 1:01:16 AM 489	965
Surr: BFB	122	77.4-118	S	%Rec	1	11/23/2019 1:01:16 AM 489	965
EPA METHOD 8021B: VOLATILES						Analyst: NS	3B
Benzene	0.054	0.024		mg/Kg	1	11/23/2019 1:01:16 AM 489	965
Toluene	0.44	0.048		mg/Kg	1	11/23/2019 1:01:16 AM 489	965
Ethylbenzene	0.090	0.048		mg/Kg	1	11/23/2019 1:01:16 AM 489	965
Xylenes, Total	1.4	0.096		mg/Kg	1	11/23/2019 1:01:16 AM 489	965
Surr: 4-Bromofluorobenzene	91.1	80-120		%Rec	1	11/23/2019 1:01:16 AM 489	965

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

### 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 Quanitative Limit

- 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 Limit

Page 1 of 9

### Lab Order **1911A22**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/17/2019

CLIENT: Animas Environmental Services Client Sample ID: SB1@15'

Project: Harvest Midstream Trunk S Collection Date: 11/19/2019 12:38:00 PM

Lab ID: 1911A22-002 Matrix: SOIL Received Date: 11/21/2019 8:37:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Fluoride	3.7	1.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Chloride	14	7.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Bromide	ND	1.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	11/25/2019 5:47:57 PM	49000
Sulfate	ND	7.5		mg/Kg	5	11/26/2019 8:52:36 PM	49047
RESISTIVITY AND EC SOIL						Analyst	JRR
Conductivity	639	1.00		µmhos/c	1	12/2/2019 1:00:00 PM	49071
EPA METHOD 6010B: SOIL METALS						Analyst	pmf
Calcium	7300	250		mg/Kg	10	12/11/2019 5:28:18 PM	49088
Magnesium	8100	250		mg/Kg	10	12/11/2019 5:28:18 PM	49088
Potassium	3400	500		mg/Kg	10	12/11/2019 5:28:18 PM	49088
Sodium	870	250		mg/Kg	10	12/11/2019 5:28:18 PM	49088
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst	BRM
Diesel Range Organics (DRO)	3000	50		mg/Kg	5	11/27/2019 10:57:27 AM	Л 48972
Motor Oil Range Organics (MRO)	ND	250	D	mg/Kg	5	11/27/2019 10:57:27 AM	Л 48972
Surr: DNOP	125	70-130		%Rec	5	11/27/2019 10:57:27 AM	/I 48972
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	13000	460		mg/Kg	100	11/25/2019 11:19:50 AM	A 48965
Surr: BFB	381	77.4-118	S	%Rec	100	11/25/2019 11:19:50 AM	A 48965
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	14	0.46		mg/Kg	20	11/23/2019 1:24:03 AM	48965
Toluene	180	4.6		mg/Kg	100	11/25/2019 11:19:50 AM	Л 48965
Ethylbenzene	35	0.92		mg/Kg	20	11/23/2019 1:24:03 AM	48965
Xylenes, Total	580	9.2		mg/Kg	100	11/25/2019 11:19:50 AM	A 48965
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	100	11/25/2019 11:19:50 AM	/I 48965

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

### 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 Quanitative 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 Limit

Page 2 of 9

### Lab Order 1911A22

Date Reported: 12/17/2019

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services

Client Sample ID: SB1@50'

**Collection Date:** 11/19/2019 11:35:00 AM **Project:** Harvest Midstream Trunk S 1911A22-003 Received Date: 11/21/2019 8:37:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CJS
Chloride	ND	60		mg/Kg	20	11/25/2019 6:12:46 PM	49000
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	BRM
Diesel Range Organics (DRO)	20	9.3		mg/Kg	1	11/25/2019 1:13:46 PM	48972
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/25/2019 1:13:46 PM	48972
Surr: DNOP	98.2	70-130		%Rec	1	11/25/2019 1:13:46 PM	48972
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	37	4.9		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Surr: BFB	299	77.4-118	S	%Rec	1	11/23/2019 1:46:52 AM	48965
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	0.029	0.025		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Toluene	0.17	0.049		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Ethylbenzene	ND	0.049		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Xylenes, Total	1.1	0.098		mg/Kg	1	11/23/2019 1:46:52 AM	48965
Surr: 4-Bromofluorobenzene	97.5	80-120		%Rec	1	11/23/2019 1:46:52 AM	48965

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

### 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 Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit



### ANALYTICAL SUMMARY REPORT

December 04, 2019

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order:

B19112287

Project Name:

Not Indicated

Energy Laboratories Inc Billings MT received the following 1 sample for Hall Environmental on 11/26/2019 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B19112287-001	1911A22-002B, SB1 @ 15 Feet	11/19/19 12:38	11/26/19	Soil	Alkalinity, Water Extractable DI Water Soil Extract ASA10-3

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

Soil Department Supervisor Digitally signed by

Digitally signed by

Sonya Mallett

Date: 2019.12.04

Date: 2019.12.04 13:49:24 -07:00





### LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:

Hall Environmental

Project:

Not Indicated

Lab ID:

B19112287-001

Client Sample ID: 1911A22-002B, SB1 @ 15 Feet

Report Date: 12/04/19

Collection Date: 11/19/19 12:38

DateReceived: 11/26/19

Matrix: Soil

Analyses	Result U	nits Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
WATER EXTRACTABLE CONSTITUENTS Alkalinity, 1:2	256 m	a/ka	4		ASA10-3	12/03/19 15:13 / gie

Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.





# **QA/QC Summary Report**

Prepared by Billings, MT Branch

Client: Hall Environmental Work Order: B19112287 Report Date: 12/04/19

Analyte	Result Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: ASA10-3			1.				Batch	n: 139748
Lab ID: LCS-139748 Alkalinity, 1:2	Laboratory Control Sample 271 mg/kg	4.0	115	Run: ORIO	NVERSASTAR 130	RPRO_191	1 12/03/	/19 14:58
Lab ID: B19112287-001A DUP Alkalinity, 1:2	Sample Duplicate 256 mg/kg	4.0		Run: ORIO	NVERSASTAR	RPRO_191 0.0	1 12/03/	/19 15:27

B19112287

# **Work Order Receipt Checklist**

# Hall Environmental

**Contact and Corrective Action Comments:** 

None

Login completed by:	Briana G. Sangiuliano		Dat	e Received: 11/26/2019	
Reviewed by:	BL2000\gmccartney		R	deceived by: slm	
Reviewed Date:	11/27/2019		Ca	arrier name: Return-UPS NDA	
Shipping container/cooler in	good condition?	Yes ✓	No 🗌	Not Present	
Custody seals intact on all s	hipping container(s)/cooler(s)?	Yes	No 🗌	Not Present ✓	
Custody seals intact on all s	ample bottles?	Yes	No 🗌	Not Present ✓	
Chain of custody present?		Yes 🗸	No 🗌		
Chain of custody signed who	en relinquished and received?	Yes 🗸	No 🗌		
Chain of custody agrees with	h sample labels?	Yes 🗸	No 🗌		
Samples in proper container	/bottle?	Yes 🗸	No 🗌		
Sample containers intact?		Yes 🗸	No 🗌		
Sufficient sample volume for	r indicated test?	Yes 🗸	No 🗌		
All samples received within I (Exclude analyses that are c such as pH, DO, Res CI, Su	onsidered field parameters	Yes ✓	No 🗌		
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗸	Not Applicable	
Container/Temp Blank temp	erature:	4.6°C On Ice			
Water - VOA vials have zero	headspace?	Yes	No 🗌	No VOA vials submitted	
Water - pH acceptable upon	receipt?	Yes	No 🗌	Not Applicable 🗸	
Standard Reporti	ng Procedures:				: <b>::</b>
				lysis within 15 minutes of sampling succed outside of recommended holding ti	
	noted as –dry. For agricu			specifically indicated. If moisture corre neters/characteristics, all samples are	



# CHAIN OF CUSTODY RECORD FAGE 1 OF 1

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque NAI 87109
TEL 505 345 3975
FAX 505.345.4107
Website www.hallenvironmental.com

SUB CONTRATOR DIT TO SUB	COMPANY			TWONG			
	]	Energy Laboratories	ries	ANOHA.	(800) 735-4489	FAX	(406) 252-6069
ADDRESS 1120 South 27th Street				ACCOUNT #		EMAIL.	
CITY STATE, ZIP	!			1	i i	: ! .	1 1 1 :
Billings, MT 59107							
_			-		# (		
					'on		
_		BOTTLE	_	COLLECTION	TAI		
ITEM SAMPLE CLIENT SAMPLE ID	ID	TYPE	MATRIX		NER!	ANALYTICA	ANALYTICAL COMMENTS
1 1911A22-002B SB1@15		40ZGU	Soel	11/19/2019 12 38 00 PM   1   Alkalınity ın Soil	1 Alkalınity ın Soil		290811908
	   		1		1	i	7088.110

1	you.
	Than
	Please return all coolers and blue 1ce
	Please e-mail results to lab/@hallenvironmental.com.
I KUC HONS	ease include the LAB ID and the CLIENT SAMPLE ID on all final reports

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

Batch ID: 49047

Analysis Date: 11/26/2019

PQL

30.00

28

WO#: **1911A22** 

17-Dec-19

Project: Harves	t Midstream	Trunk S	S							
Sample ID: <b>MB-49000</b>	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PBS	Batch	1D: <b>49</b>	000	F	RunNo: 6	4777				
Prep Date: 11/25/2019	Analysis D	ate: <b>1</b> 1	1/25/2019	5	SeqNo: 2	220067	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrite (As N)	ND	0.30								
Bromide	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								
Sample ID: LCS-49000	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch	1D: <b>49</b>	000	F	RunNo: 6	4777				
Prep Date: 11/25/2019	Analysis D	ate: 11	1/25/2019	9	SeqNo: 2	220069	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.4	0.30	1.500	0	95.4	90	110			
Chloride	14	1.5	15.00	0	95.5	90	110			
Nitrogen, Nitrite (As N)	2.8	0.30	3.000	0	92.6	90	110			
Bromide	7.3	0.30	7.500	0	97.5	90	110			
Nitrogen, Nitrate (As N)	7.6	0.30	7.500	0	101	90	110			
Sample ID: <b>MB-49047</b>	SampT	ype: <b>m</b> k	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PBS	Batch	1D: <b>49</b>	047	F	RunNo: 6	4785				
Prep Date: 11/26/2019	Analysis D	ate: <b>1</b> 1	1/26/2019	S	SeqNo: 2:	221557	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	1.5								
Sample ID: LCS-49047	SampT	ype: <b>Ics</b>	3	Tes	tCode: El	PA Method	300.0: Anion	s		

### Qualifiers:

Client ID: LCSS

Analyte

Sulfate

Prep Date: 11/26/2019

- 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

RunNo: 64785

94.6

SPK value SPK Ref Val %REC LowLimit

SeqNo: 2221558

Units: mg/Kg

110

HighLimit

90

%RPD

**RPDLimit** 

Qual

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **1911A22** 

17-Dec-19

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: LCS-48972	SampT	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	1D: <b>48</b> 9	972	F	RunNo: 6	4745				
Prep Date: 11/22/2019	Analysis D	ate: 11	/25/2019	S	SeqNo: 2	218776	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID: MB-48972	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: <b>48</b>	972	F	tunNo: 64	4745				
Prep Date: 11/22/2019	Analysis D	ate: 11	/25/2019	S	SeqNo: 2	218778	Units: mg/K	(g		
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	9.3		10.00		93.0	70	130			

### 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 Quanitative 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 Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1911A22** 

17-Dec-19

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: MB-48965 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 48965 RunNo: 64725

Prep Date: 11/21/2019 Analysis Date: 11/22/2019 SeqNo: 2217895 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 1000 1000 101 77.4 118

Sample ID: LCS-48965 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 48965 RunNo: 64725

Prep Date: 11/21/2019 Analysis Date: 11/22/2019 SeqNo: 2217896 Units: mg/Kg

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 80 27 5.0 25.00 0 107 120 Surr: BFB 1200 1000 115 77.4 118

### 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 Quanitative 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 Limit

Page 6 of 9

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1911A22** 

17-Dec-19

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: MB-48965 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **48965** RunNo: **64725** 

Prep Date: 11/21/2019 Analysis Date: 11/22/2019 SeqNo: 2217930 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 0.89 1.000 88.8 80 120

Sample ID: LCS-48965 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 48965 RunNo: 64725

Prep Date: 11/21/2019	Analysis D	)ate: 11	/22/2019	S	SeqNo: 22	217931	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.8	80	120		<u>,                                      </u>	
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.1	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	80	120			

### 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 Quanitative Limit

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 Limit

Page 7 of 9

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1911A22** 

17-Dec-19

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: MB-49088 SampType: MBLK TestCode: EPA Method 6010B: Soil Metals

Client ID: PBS Batch ID: 49088 RunNo: 65116

Prep Date: 12/2/2019 Analysis Date: 12/11/2019 SeqNo: 2234329 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Calcium
 ND
 25

 Magnesium
 ND
 25

 Potassium
 ND
 50

 Sodium
 ND
 25

Sample ID: LCS-49088 SampType: LCS TestCode: EPA Method 6010B: Soil Metals

Client ID: LCSS Batch ID: 49088 RunNo: 65116

Prep Date: 12/2/2019 Analysis Date: 12/11/2019 SeqNo: 2234331 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Calcium 2500 25 2500 0 100 80 120 25 0 97.7 80 2400 2500 120 Magnesium Potassium 2400 50 2500 0 96.4 80 120 2400 25 2500 0 96.0 80 120 Sodium

### 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 Quanitative 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 Limit

# Hall Environmental Analysis Laboratory, Inc.

683

WO#: 1911A22

20

6.62

17-Dec-19

**Client:** Animas Environmental Services Harvest Midstream Trunk S **Project:** 

Sample ID: 1911A22-002ADUP SampType: DUP TestCode: Resistivity and eC Soil

Client ID: SB1@15' Batch ID: 49071 RunNo: 64853

1.00

Analysis Date: 12/2/2019 Prep Date: 12/2/2019 SeqNo: 2223523 Units: µmhos/cm

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Conductivity

### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 9 of 9



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 Environ	mental	Work (	Order Numb	per: 1911A22			RcptNo	: 1
Received By:	Yazmine Gard	uno	11/21/20	19 8:37:00	АМ	spanie	u lefnauti		
Completed By:	Leah Baca		/11/21/20	19 11:04:3	9 AM	/m/	Baca		
Reviewed By:	S	11/2	1/19			Luny	70		
Chain of Cus	stody								
1. Is Chain of C	Custody complete?				Yes 🗸	No		Not Present	
2. How was the	sample delivered	?			Courier				
<u>Log In</u>								_	
3. Was an atter	mpt made to cool t	he sample	s?		Yes 🗸	No		NA 🗆	
4. Were all sam	ples received at a	temperatu	ire of >0° C to	o 6.0°C	Yes 🗸	No		NA $\square$	
5. Sample(s) in	proper container(s	s)?			Yes 🗸	No			
6 Sufficient sar	mple volume for inc	dicated tes	it(s)?		Yes 🗸	No			
	(except VOA and			d?	Yes 🗸	No			
	ative added to bott				Yes 🗌	No	<b>✓</b>	NA 🗆	
9. VOA vials ha	ve zero headspace	∋?			Yes 🗌	No		No VOA Vials	j
10. Were any sa	imple containers re	eceived bro	oken?		Yes 🗀	No	<b>V</b>	# of preserved bottles checked	
339, 52	ork match bottle la pancies on chain o				Yes 🗸	No		for pH:	r >12 unless noted)
	correctly identified	100	of Custody?		Yes 🗸	No		Adjusted?	
13. Is it clear wh	at analyses were r	equested?			Yes 🗸	No		/.	alide av
	ling times able to b customer for autho				Yes 🗸	No		Checked by:	16 11/11/11
Sales of the second	lling (if applica							1	
	notified of all discre		ith this order?		Yes 🗌	No		NA 🗹	
By Wh Regar	ding:			Date Via:	eMail [	] Phone [	] Fax	☐ In Person	
	Instructions:								
16. Additional r 17. Cooler Info Cooler N 1	ormation lo Temp ºC C	Condition ood	Seal Intact	Seal No	Seal Date	Signed	Ву		

Client: Animas Environmental Services, LLC		•					AL			
		Standard	d C Rush		L		AMA	Vere	ANAL SIVETS LABORATORY	120
		Project Nam					4	CICIT	ANALISIS LABORALORT	2
Mailing Address: P.O. Box8		ì	Harvest Midstream Trunk S	S Sund W		904 H 23	www.h	www.hallenvironmental.com	ntal.com	
Farmington, NM 87499-0008		Project #:			r	- 505 P	Tel 505-345-3975	- Albuqueic	Tel 505-345-3075 Eav 505-345-4407	
Phone #: 505.564.2281								$\omega$	ouest	
email or Fax#: emcnally@animasenvironmental.com		Project Manager:	iger:					1		
QA/QC Package:		ē	)		(91			ייייין וייין		
X Standard □ Level 4 (Full Validation)	(alidation)		Elizabeth McNally	Nally	08)	*********		M. 6		
O.:	0)	Sampler: &	John Hubb	boar	(бя	***************************************	4/4	21		
□ NELAC □ Other	0	On loe:	₩ Yes	. ON D		(0	1	Lio		
□ EDD (Type)	41:	# of Coolers:		112/1147	-	.00	7	ılı		
	O I	ooler Temp	Cooler Temp(including cs): $0.00-0.20.3=0.0$	-0203-0c		E) 8	33	7 / K		
Date Time Matrix Sample Name		Container Type and #	Preservative Type	HEAL No.	з) хэта (б)	Shloride M 232	20.1 M 264	CKTION		
1 10th/n 932 Soil 1 5 SOIO 8		\$ - 40z jars	[000]	731	1/	X				
Jan 12:38 3211 5B1 @	151	-802	Cost	-001	X	5	Z Z	N X		
11:35 30/1 361 @		1-207		-7002	X	₹>	Ž Ž			
Ypot						1				
W										
										-
						-				
Date: Time: Relinquished by:	&	Received by:	Via:	Date Time	Remarks:					
		3	253		1		58-16	58-1615 015: NOWAY	Nother C	
TALEST STATE OF THE PROPERTY O	1000	Heceived by:	Via:	Date Time				F. F.	Cation Anim 134	a de la companya de l
)		Ś	CC0001-01	100			Technological State of the Control o		de se	



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

December 24, 2019

Elizabeth McNally Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Harvest Midstream Trunk S OrderNo.: 1911D02

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/28/2019 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 1911D02

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/24/2019

CLIENT: Animas Environmental Services Client Sample ID: SB-1 @ 60'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 11/26/2019 2:00:00 PM

 Lab ID:
 1911D02-001
 Matrix: SOIL
 Received Date: 11/28/2019 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CJS
Chloride	ND	60		mg/Kg	20	12/5/2019 2:59:33 PM	49174
RESISTIVITY AND EC SOIL						Analyst	JMT
Conductivity	643	1.00		µmhos/c	1	12/9/2019 3:01:00 PM	49221
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/3/2019 3:41:51 PM	49089
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/3/2019 3:41:51 PM	49089
Surr: DNOP	133	70-130	S	%Rec	1	12/3/2019 3:41:51 PM	49089
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Surr: BFB	83.0	77.4-118		%Rec	1	12/3/2019 10:33:53 AM	49082
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.024		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Toluene	ND	0.049		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Ethylbenzene	ND	0.049		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Xylenes, Total	ND	0.097		mg/Kg	1	12/3/2019 10:33:53 AM	49082
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	12/3/2019 10:33:53 AM	49082

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

### 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 Quanitative 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 Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **1911D02** 

24-Dec-19

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: MB-49174 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49174 RunNo: 64987

Prep Date: 12/5/2019 Analysis Date: 12/5/2019 SeqNo: 2228955 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49174 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49174 RunNo: 64987

Prep Date: 12/5/2019 Analysis Date: 12/5/2019 SeqNo: 2228956 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 96.7 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 Quanitative 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 Limit

### Hall Environmental Analysis Laboratory, Inc.

8.5

WO#: **1911D02** 

24-Dec-19

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: LCS-49089 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 49089 RunNo: 64876 Prep Date: 12/2/2019 Analysis Date: 12/3/2019 SeqNo: 2224924 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 10 0 44 50.00 88.9 63.9 124 Surr: DNOP 4.1 5.000 82.7 130

Sample ID: MB-49089 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 49089 RunNo: 64876 Prep Date: 12/2/2019 Analysis Date: 12/3/2019 SeqNo: 2224925 Units: mg/Kg Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

85.3

70

130

10.00

### Qualifiers:

Surr: DNOP

- 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 Quanitative 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 Limit

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

Result

24

930

PQL

4.8

WO#: **1911D02** 

24-Dec-19

Project: Harvest I	Midstream T	runk S	S							
Sample ID: <b>mb-49082</b>	SampTy	pe: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: <b>49</b>	082	R	lunNo: 6	4903				
Prep Date: 12/2/2019	Analysis Da	te: 12	2/3/2019	S	SeqNo: 2	225312	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 880	5.0	1000		88.3	77.4	118			
Sample ID: Ics-49082	SampTy	pe: <b>LC</b>	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: <b>49</b>	082	R	tunNo: 6	4903				
Prep Date: 12/2/2019	Analysis Da	te: 12	2/3/2019	S	SeqNo: 2	225313	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	80	120			
Surr: BFB	970		1000		96.8	77.4	118			
Sample ID: 1911d02-001ams	SampTy	pe: <b>MS</b>	5	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: SB-1 @ 60'	Batch	ID: <b>49</b>	082	R	unNo: 6	4903				
Prep Date: 12/2/2019	Analysis Da	ite: 12	2/3/2019	S	SeqNo: 2	225315	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.65	0	99.8	69.1	142			
Surr: BFB	930		986.2		94.6	77.4	118			
Sample ID: 1911d02-001amse	d SampTy	ре: МS	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: SB-1 @ 60'	Batch	ID: <b>49</b>	082	R	RunNo: 6	4903				
Prep Date: 12/2/2019	Analysis Da	ite: 12	2/3/2019	S	SeqNo: 2:	225316	Units: mg/K	(g		

SPK value SPK Ref Val %REC

24.25

969.9

### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Gasoline Range Organics (GRO)

Surr: BFB

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

LowLimit

69.1

77.4

99.9

96.2

HighLimit

142

118

%RPD

1.62

0

**RPDLimit** 

20

0

Qual

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1911D02

24-Dec-19

**Client:** Animas Environmental Services **Project:** Harvest Midstream Trunk S

Sample ID: mb-49082 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 49082 RunNo: 64903

Prep Date: 12/2/2019 Analysis Date: 12/3/2019 SeqNo: 2225359 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025

Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.1 1.000 110 80 120

Sample ID: LCS-49082 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 49082 RunNo: 64903

Prep Date: 12/2/2019	Analysis L	Date: 12	2/3/2019	٤	seqNo: 2	225360	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.4	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit

# Hall Environmental Analysis Laboratory, Inc.

647

WO#: **1911D02** 

20

0.682

24-Dec-19

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: 1911D02-001ADUP SampType: DUP TestCode: Resistivity and eC Soil

Client ID: SB-1 @ 60' Batch ID: 49221 RunNo: 65034

1.00

Prep Date: 12/9/2019 Analysis Date: 12/9/2019 SeqNo: 2230953 Units: μmhos/cm

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Conductivity

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 Quanitative 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 Limit

Page 6 of 6



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: 1911D02 RcptNo: 1 Received By: Andy Freeman 11/28/2019 10:00:00 AM Completed By: Erin Melendrez 11/30/2019 11:22:05 AM DM 12/2/19 Reviewed By: <u>Chain of Custody</u> 1. Is Chain of Custody complete? Yes 🗸 No 🗆 Not Present 2. How was the sample delivered? Courier <u>Log</u> In 3. Was an attempt made to cool the samples? NA 🗌 Yes 🗸 4. Were all samples received at a temperature of >0° C to 6.0°C No 🔲 NA 🗌 Yes 🔽 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? No 🗌 Yes 🗹 No 🗹 8. Was preservative added to bottles? Yes 🗌 NA 🔲 9. VOA vials have zero headspace? Yes 🗌 No \_ No VOA Vials 🗹 Yes 10. Were any sample containers received broken? No 🔽 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗹 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 mless noted) Adjusted? 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? hecked by: Yes 🔽 No 📖 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗀 NA 🗹 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp C Condition Seal Intact | Seal No Seal Date 2.6 Good Yes

Turn-Arou  Standa Project Na Ball.com Project #:  On Ice:  # of Coole Cooler Ter Container  Container Type and # 1-9 & 1-9 & 1   1-9 & 1		Rush ANALYSIS LABORATORY	www.hallenvironmental.com	Harvest Midstream Trunk S 4901 Hawkins NE - Albuquerque, NM 87109		⁴na		 McNaily	ザ ステ AM,C	OR ()	208 (802-	rvative Chlorid SM 23: 120.1							 Date Time Remarks: Dr. Prov. F on 6.125UN AN CALL	C71-5 01 -: 65 ". 15. S101 611	19 1015 Time
	Chain-of-Custody Record Turn-Around Time:		Project Name:		Project #:	Phone #: 505.564.2281	email or Fax#: emcnally@animasenvironmental.com   Project Manager:	4 (Full Validation)	Sampler: (2 C. On loe: >E Y	# of Coolers	Cooler Temp@reluding cr):	Container Type and #	1-9 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1 2-1						 	I Christian	I by:



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

March 19, 2020

Eddie Hubbert Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Harvest Midstream Trunk S OrderNo.: 2003514

### Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/11/2020 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# **Analytical Report**

### Lab Order 2003514

Date Reported: 3/19/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-2@34'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/9/2020 12:12:00 PM

 Lab ID:
 2003514-001
 Matrix: SOIL
 Received Date: 3/11/2020 8:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	CAS
Chloride	ND	60		mg/Kg	20	3/16/2020 12:29:22 PM	51120
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	BRM
Diesel Range Organics (DRO)	64	9.5		mg/Kg	1	3/16/2020 4:30:03 PM	51095
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/16/2020 4:30:03 PM	51095
Surr: DNOP	101	55.1-146		%Rec	1	3/16/2020 4:30:03 PM	51095
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	12	5.0		mg/Kg	1	3/16/2020 9:48:21 PM	51093
Surr: BFB	163	66.6-105	S	%Rec	1	3/16/2020 9:48:21 PM	51093
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.025		mg/Kg	1	3/16/2020 9:48:21 PM	51093
Toluene	ND	0.050		mg/Kg	1	3/16/2020 9:48:21 PM	51093
Ethylbenzene	ND	0.050		mg/Kg	1	3/16/2020 9:48:21 PM	51093
Xylenes, Total	0.18	0.10		mg/Kg	1	3/16/2020 9:48:21 PM	51093
Surr: 4-Bromofluorobenzene	93.8	80-120		%Rec	1	3/16/2020 9:48:21 PM	51093

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

### 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 Quanitative 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 Limit

Page 1 of 9

# **Analytical Report**

### Lab Order 2003514

Date Reported: 3/19/2020

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SB-2@59'

**Collection Date:** 3/9/2020 2:29:00 PM **Project:** Harvest Midstream Trunk S 2003514-002 Matrix: SOIL Received Date: 3/11/2020 8:05:00 AM Lab ID:

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	3/16/2020 1:06:24 PM	51120
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/16/2020 5:41:54 PM	51095
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/16/2020 5:41:54 PM	51095
Surr: DNOP	97.0	55.1-146	%Rec	1	3/16/2020 5:41:54 PM	51095
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/16/2020 11:23:05 PM	51093
Surr: BFB	84.7	66.6-105	%Rec	1	3/16/2020 11:23:05 PM	51093
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	3/16/2020 11:23:05 PM	51093
Toluene	ND	0.049	mg/Kg	1	3/16/2020 11:23:05 PM	51093
Ethylbenzene	ND	0.049	mg/Kg	1	3/16/2020 11:23:05 PM	51093
Xylenes, Total	ND	0.098	mg/Kg	1	3/16/2020 11:23:05 PM	51093
Surr: 4-Bromofluorobenzene	91.7	80-120	%Rec	1	3/16/2020 11:23:05 PM	51093

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

### 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 Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2003514** 

19-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: MB-51120 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51120 RunNo: 67353

Prep Date: 3/16/2020 Analysis Date: 3/16/2020 SeqNo: 2321543 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-51120 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51120 RunNo: 67353

Prep Date: 3/16/2020 Analysis Date: 3/16/2020 SeqNo: 2321544 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.0 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 Quanitative 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 Limit

Page 3 of 9

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: **2003514** 

19-Mar-20

Project: Harvest Midstream Trunk S	
Sample ID: MB-51095 SampType: MBLK TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 51095 RunNo: 67317	
Prep Date: 3/13/2020 Analysis Date: 3/16/2020 SeqNo: 2321359	Units: mg/Kg
Analyte Result PQL SPK value SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) ND 10	
Motor Oil Range Organics (MRO)         ND         50           Surr: DNOP         11         10.00         109         55.	1 146
Suii. DNOP 11 10.00 109 55.	1 146
Sample ID: LCS-51095 SampType: LCS TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 51095 RunNo: 67317	
Prep Date: 3/13/2020 Analysis Date: 3/16/2020 SeqNo: 2321360	Units: mg/Kg
Analyte Result PQL SPK value SPK Ref Val %REC LowLimi	<u>~</u>
Diesel Range Organics (DRO) 50 10 50.00 0 100 70	
Surr: DNOP 5.1 5.000 101 55.	1 146
Sample ID: 2003514-001AMS SampType: MS TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: SB-2@34' Batch ID: 51095 RunNo: 67317	
Prep Date: 3/13/2020 Analysis Date: 3/16/2020 SeqNo: 2321362	Units: mg/Kg
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit	t HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 86 9.5 47.71 63.93 46.7 47.4	
Surr: DNOP 4.7 4.771 97.9 55.	1 146
Sample ID: 2003514-001AMSD SampType: MSD TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: SB-2@34' Batch ID: 51095 RunNo: 67317	
Prep Date: 3/13/2020 Analysis Date: 3/16/2020 SeqNo: 2321363	Units: mg/Kg
Analyte Result PQL SPK value SPK Ref Val %REC LowLimi	t HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 86 9.3 46.30 63.93 48.1 47.4	
Surr: DNOP 4.6 4.630 100 55.	1 146 0 0
Sample ID: MB-51096 SampType: MBLK TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 51096 RunNo: 67317	
Prep Date: 3/13/2020 Analysis Date: 3/17/2020 SeqNo: 2321383	Units: %Rec
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit	t HighLimit %RPD RPDLimit Qual
Surr: DNOP         9.5         10.00         95.5         55.	1 146
Sample ID: LCS-51096 SampType: LCS TestCode: EPA Metho	d 8015M/D: Diesel Range Organics
Client ID: LCSS Batch ID: 51096 RunNo: 67317	
Prep Date: 3/13/2020 Analysis Date: 3/17/2020 SeqNo: 2321384	Units: %Rec

### 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 Quanitative 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 Limit

Page 4 of 9

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2003514** 

19-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: LCS-51096 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 51096 RunNo: 67317

Prep Date: 3/13/2020 Analysis Date: 3/17/2020 SeqNo: 2321384 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.4 5.000 88.2 55.1 146

Sample ID: MB-51124 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 51124 RunNo: 67317

Prep Date: 3/16/2020 Analysis Date: 3/17/2020 SeqNo: 2323831 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 9.7 10.00 96.5 55.1 146

Sample ID: LCS-51124 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 51124 RunNo: 67317

Prep Date: 3/16/2020 Analysis Date: 3/17/2020 SeqNo: 2323832 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.7 5.000 94.2 55.1 146

### 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 Quanitative 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 Limit

Page 5 of 9

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: **2003514** 

19-Mar-20

Project: Harvest	Midstream Trunk S		
Sample ID: mb-51097	SampType: MBLK	TestCode: EPA Method	l 8015D: Gasoline Range
Client ID: PBS	Batch ID: 51097	RunNo: 67331	
Prep Date: 3/13/2020	Analysis Date: 3/16/2020	SeqNo: <b>2320454</b>	Units: %Rec
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	810 10	00 80.6 66.6	105
Sample ID: Ics-51097	SampType: LCS	TestCode: EPA Method	I 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 51097	RunNo: 67331	
Prep Date: 3/13/2020	Analysis Date: 3/16/2020	SeqNo: <b>2320455</b>	Units: %Rec
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	920 10	92.5 66.6	105
Sample ID: mb-51093	SampType: MBLK	TestCode: EPA Method	l 8015D: Gasoline Range
Client ID: PBS	Batch ID: 51093	RunNo: 67331	
Prep Date: 3/13/2020	Analysis Date: 3/16/2020	SeqNo: 2320477	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0		
Surr: BFB	830 10	00 83.0 66.6	105
Sample ID: Ics-51093	SampType: <b>LCS</b>	TestCode: EPA Method	l 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 51093	RunNo: 67331	
Prep Date: 3/13/2020	Analysis Date: 3/16/2020	SeqNo: <b>2320478</b>	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	21 5.0 25		
Surr: BFB	890 10	00 89.2 66.6	105
Sample ID: <b>2003514-001ams</b>	SampType: MS	TestCode: EPA Method	l 8015D: Gasoline Range
Client ID: SB-2@34'	Batch ID: 51093	RunNo: 67331	
Prep Date: 3/13/2020	Analysis Date: 3/16/2020	SeqNo: <b>2320480</b>	Units: mg/Kg
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	36 5.0 24	83 12.28 94.6 69.1	142
Surr: BFB	1500 99	3.0 156 66.6	105 S
Sample ID: 2003514-001ams	d SampType: MSD	TestCode: EPA Method	l 8015D: Gasoline Range
Client ID: SB-2@34'	Batch ID: 51093	RunNo: 67331	
Prep Date: 3/13/2020	Analysis Date: 3/16/2020	SeqNo: <b>2320487</b>	Units: mg/Kg
	Result PQL SPK va	ue SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Analyte			
Analyte Gasoline Range Organics (GRO)	32 4.7 23	28 12.28 84.6 69.1	142 11.2 20

### 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 Quanitative 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 Limit

Page 6 of 9

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2003514** 

19-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: mb-51119 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 51119 RunNo: 67350

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2322850 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 740 1000 73.7 66.6 105

Sample ID: Ics-51119 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 51119 RunNo: 67350

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2322851 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 860 1000 86.3 66.6 105

### 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 Quanitative 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 Limit

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**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: **2003514** 

19-Mar-20

	Midstream '									
Sample ID: <b>mb-51097</b>	SampT	уре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		-
Client ID: PBS	Batch	ID: <b>51</b> 0	097	F	RunNo: 6	7331				
Prep Date: 3/13/2020	Analysis D	ate: 3/	16/2020	5	SeqNo: 2	320543	Units: %Red	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.86		1.000		85.8	80	120			
Sample ID: LCS-51097	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: <b>51</b> 0	097	F	RunNo: 6	7331				
Prep Date: 3/13/2020	Analysis D	ate: 3/	16/2020	5	SeqNo: 2	320544	Units: %Red	3		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	80	120			
Sample ID: mb-51093	SampT	ype: <b>ME</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: <b>51</b> 0	093	F	RunNo: 6	7331				
Prep Date: 3/13/2020	Analysis D	ate: <b>3/</b>	16/2020	5	SeqNo: 2	320567	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND ND	0.050 0.050								
Ethylbenzene Xylenes, Total	ND ND	0.030								
Surr: 4-Bromofluorobenzene	0.90	0.10	1.000		90.1	80	120			
Sample ID: LCS-51093	SampT	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: <b>51</b> 0	093	F	RunNo: 6	7331				
Prep Date: 3/13/2020	Analysis D	ate: 3/	16/2020	S	SeqNo: 2	320568	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.9	80	120			
Toluene	0.94	0.050	1.000	0	94.1	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.2	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.9	80	120			
Sample ID: 2003514-002ams	•	ype: MS					8021B: Volat	iles		
Client ID: SB-2@59'		ID: <b>51</b> 0			RunNo: 6		Linitar	·		
Prep Date: 3/13/2020	Analysis D				SeqNo: 2		Units: mg/K	_	DDD:: ::	
Analyte	Result	PQL 0.024		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene Toluene	0.79 0.83	0.024	0.9515	0	83.1 87.2	78.5 75.7	119 123			
Ethylbenzene	0.83	0.048 0.048	0.9515 0.9515	0	90.0	75.7 74.3	123 126			
Xylenes, Total	2.6	0.048	2.854	0.02269	90.8	72.9	130			

### 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 Quanitative 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 Limit

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### Hall Environmental Analysis Laboratory, Inc.

WO#: **2003514** 

19-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: 2003514-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: SB-2@59' Batch ID: 51093 RunNo: 67331

Prep Date: 3/13/2020 Analysis Date: 3/16/2020 SeqNo: 2320571 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: 4-Bromofluorobenzene
 0.87
 0.9515
 90.9
 80
 120

Sample ID: 2003514-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: SB-2@59' Batch ID: 51093 RunNo: 67331

Prep Date: 3/13/2020 Analysis Date: 3/17/2020 SeqNo: 2320572 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene 0.82 0.025 0.9862 0 83.2 78.5 119 3.75 20 Toluene 0.86 0.049 0.9862 0 87.0 75.7 123 3.29 20 0.88 0.049 0.9862 0 88.9 74.3 2.32 20 Ethylbenzene 126 Xylenes, Total 2.7 0.099 2.959 0.02269 89.7 72.9 130 2.32 20 0 0.88 0.9862 120 0 Surr: 4-Bromofluorobenzene 89.6

Sample ID: mb-51119 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 51119 RunNo: 67350

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2322879 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.88 1.000 88.4 80 120

Sample ID: LCS-51119 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 51119 RunNo: 67350

0.95

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2322880 Units: %Rec

1.000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

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

95.0

80

120

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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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: 2003514 RcptNo: 1 unt. Received By: Erin Melendrez 3/11/2020 8:05:00 AM rfazmini biladesti Completed By: Yazmine Garduno 3/11/2020 3:40:08 PM Reviewed By: Chain of Custody 1. Is Chain of Custody sufficiently 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 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 No 🗌 5. Sample(s) in proper container(s)? Yes 🗸 Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No  $\square$ 7. Are samples (except VOA and ONG) properly preserved? No V 8. Was preservative added to bottles? Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? NA 🗸 Yes No 10. Were any sample containers received broken? Yes No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13 Is it clear what analyses were requested? Yes V Checked by: 1231270 14. Were all holding times able to be met? Yes 🗸 No (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 3.7 Good

င်	lain	of-CL	Chain-of-Custody Record	Turn-Around Time:	Time:				•			
Client: A	ınimas	Environn	Client: Animas Environmental Services, LLC	以 Standard	□ Rush				_ 9	V V	HALL ENVIKONMENTAL ANALYSTS LABORATORY	
				Project Name:	65			Name .	•	www.h	www.hallenvironmental.com	
Mailing Address:	ddress	.,	P.O. Box8	Н	Harvest Midstream Trunk S	m Trunk S		4901	Hawk	4901 Hawkins NE	- Albuquerque, NM 87109	
		Farming	Farmington, NM 87499-0008	Project #:				Tel.	05-34	Tel. 505-345-3975	Fax 505-345-4107	
Phone #: 505.564.2281	505.56	34.2281									Ina	A HOUSE
email or F	-ax#: e	mcnally	email or Fax#: emcnally@animasenvironmental.com	Project Manager:	ger:			(				-
QA/QC Package:	ckage:	_	Voidation		Eddie Husbert	bet t		(6108)				
Accreditation:	tion:	□ Az Co	☐ Level 4 (Full Validation)	Sampler	C / L +	ivaliy		(0)	7	) 		
□ NELAC	O	□ Other			3	oN 🗆				2		
□ EDD (Type)	Type)			# of Coolers:	1					AL CONTRACTOR		
				Cooler Temp(including CF): 3	1	-0(CF)=3.70c						-
Date T	Time	Matrix	Sample Name	Container Type and #	Preservative Type	1003514	s) X3T8	D) H9T Chloride	<b>EN 335</b>	POZO		
3-9-20 1.	12:12	S011	18-2 € 34'	<b>3</b> - 4oz jars	cool	-001	X	×	X	<b>⊗</b>		
3-5-20 1	67:H	Seil	58-2 659'	2-42 1915	1000	200-	<u>×</u>	×	2	NA SA		-
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4	necessary	تنسل	Environmental		scredited laboratories	This serves as notice of this	ilidissoo s	v. Any	up-cont	racted data	accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	1



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

March 25, 2020

Elizabeth McNally Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX: (505) 324-2022

RE: Harvest Midstream Trunk S OrderNo.: 2003649

### Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/12/2020 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,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-3 @ 19'

Project: Harvest Midstream Trunk S Collection Date: 3/9/2020 4:09:00 PM

Lab ID: 2003649-001 Matrix: SOIL Received Date: 3/12/2020 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 1:57:05 PM	51212
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	18	4.7	mg/Kg	1	3/23/2020 4:46:47 PM	51122
Surr: BFB	111	70-130	%Rec	1	3/23/2020 4:46:47 PM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	27	9.6	mg/Kg	1	3/17/2020 12:15:07 PM	51124
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/17/2020 12:15:07 PM	51124
Surr: DNOP	92.2	55.1-146	%Rec	1	3/17/2020 12:15:07 PM	51124
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	JMR
Benzene	ND	0.023	mg/Kg	1	3/23/2020 4:46:47 PM	51122
Toluene	ND	0.047	mg/Kg	1	3/23/2020 4:46:47 PM	51122
Ethylbenzene	ND	0.047	mg/Kg	1	3/23/2020 4:46:47 PM	51122
Xylenes, Total	0.53	0.094	mg/Kg	1	3/23/2020 4:46:47 PM	51122
Surr: 1,2-Dichloroethane-d4	89.8	70-130	%Rec	1	3/23/2020 4:46:47 PM	51122
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	3/23/2020 4:46:47 PM	51122
Surr: Dibromofluoromethane	98.9	70-130	%Rec	1	3/23/2020 4:46:47 PM	51122
Surr: Toluene-d8	96.4	70-130	%Rec	1	3/23/2020 4:46:47 PM	51122

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

### 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 Quanitative 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 Limit

Page 1 of 10

Lab Order **2003649** 

Date Reported: 3/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-3 @ 49'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/10/2020 8:49:00 AM

 Lab ID:
 2003649-002
 Matrix: SOIL
 Received Date: 3/12/2020 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 2:09:26 PM	51212
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	1900	47	mg/Kg	10	3/21/2020 2:40:42 AM	51122
Surr: BFB	113	70-130	%Rec	10	3/21/2020 2:40:42 AM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	370	9.9	mg/Kg	1	3/19/2020 12:19:19 AM	51124
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/19/2020 12:19:19 AM	51124
Surr: DNOP	99.5	55.1-146	%Rec	1	3/19/2020 12:19:19 AM	51124
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	0.60	0.24	mg/Kg	10	3/21/2020 2:40:42 AM	51122
Toluene	15	0.47	mg/Kg	10	3/21/2020 2:40:42 AM	51122
Ethylbenzene	2.0	0.47	mg/Kg	10	3/21/2020 2:40:42 AM	51122
Xylenes, Total	45	0.95	mg/Kg	10	3/21/2020 2:40:42 AM	51122
Surr: 1,2-Dichloroethane-d4	98.2	70-130	%Rec	10	3/21/2020 2:40:42 AM	51122
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	10	3/21/2020 2:40:42 AM	51122
Surr: Dibromofluoromethane	96.0	70-130	%Rec	10	3/21/2020 2:40:42 AM	51122
Surr: Toluene-d8	97.6	70-130	%Rec	10	3/21/2020 2:40:42 AM	51122

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

### 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 Quanitative 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 Limit

Page 2 of 10

Date Reported: 3/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-3 @ 55'

Project:Harvest Midstream Trunk SCollection Date: 3/10/2020 9:40:00 AMLab ID:2003649-003Matrix: SOILReceived Date: 3/12/2020 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 2:21:47 PM	51212
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/23/2020 5:15:24 PM	51122
Surr: BFB	106	70-130	%Rec	1	3/23/2020 5:15:24 PM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/17/2020 1:02:57 PM	51124
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/17/2020 1:02:57 PM	51124
Surr: DNOP	99.2	55.1-146	%Rec	1	3/17/2020 1:02:57 PM	51124
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	3/23/2020 5:15:24 PM	51122
Toluene	ND	0.049	mg/Kg	1	3/23/2020 5:15:24 PM	51122
Ethylbenzene	ND	0.049	mg/Kg	1	3/23/2020 5:15:24 PM	51122
Xylenes, Total	ND	0.097	mg/Kg	1	3/23/2020 5:15:24 PM	51122
Surr: 1,2-Dichloroethane-d4	88.5	70-130	%Rec	1	3/23/2020 5:15:24 PM	51122
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	3/23/2020 5:15:24 PM	51122
Surr: Dibromofluoromethane	99.9	70-130	%Rec	1	3/23/2020 5:15:24 PM	51122
Surr: Toluene-d8	98.2	70-130	%Rec	1	3/23/2020 5:15:24 PM	51122

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

### 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 Quanitative 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 Limit

Page 3 of 10

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/25/2020

CLIENT: Animas Environmental Services Client Sample ID: SB-4 @ 39'

Project:Harvest Midstream Trunk SCollection Date: 3/10/2020 1:11:00 PMLab ID:2003649-004Matrix: SOILReceived Date: 3/12/2020 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 2:34:08 PM	51212
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/23/2020 5:43:55 PM	51122
Surr: BFB	103	70-130	%Rec	1	3/23/2020 5:43:55 PM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/17/2020 1:26:50 PM	51124
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/17/2020 1:26:50 PM	51124
Surr: DNOP	101	55.1-146	%Rec	1	3/17/2020 1:26:50 PM	51124
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	3/23/2020 5:43:55 PM	51122
Toluene	ND	0.049	mg/Kg	1	3/23/2020 5:43:55 PM	51122
Ethylbenzene	ND	0.049	mg/Kg	1	3/23/2020 5:43:55 PM	51122
Xylenes, Total	ND	0.098	mg/Kg	1	3/23/2020 5:43:55 PM	51122
Surr: 1,2-Dichloroethane-d4	87.9	70-130	%Rec	1	3/23/2020 5:43:55 PM	51122
Surr: 4-Bromofluorobenzene	99.9	70-130	%Rec	1	3/23/2020 5:43:55 PM	51122
Surr: Dibromofluoromethane	97.2	70-130	%Rec	1	3/23/2020 5:43:55 PM	51122
Surr: Toluene-d8	97.7	70-130	%Rec	1	3/23/2020 5:43:55 PM	51122

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

### 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 Quanitative 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 Limit

Page 4 of 10

Date Reported: 3/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-4 @ 53'

Project: Harvest Midstream Trunk S Collection Date: 3/10/2020 2:25:00 PM

Lab ID: 2003649-005 Matrix: SOIL Received Date: 3/12/2020 8:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 2:46:29 PM	51212
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/21/2020 4:06:22 AM	51122
Surr: BFB	100	70-130	%Rec	1	3/21/2020 4:06:22 AM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/17/2020 1:50:48 PM	51124
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/17/2020 1:50:48 PM	51124
Surr: DNOP	97.1	55.1-146	%Rec	1	3/17/2020 1:50:48 PM	51124
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	3/21/2020 4:06:22 AM	51122
Toluene	ND	0.050	mg/Kg	1	3/21/2020 4:06:22 AM	51122
Ethylbenzene	ND	0.050	mg/Kg	1	3/21/2020 4:06:22 AM	51122
Xylenes, Total	ND	0.10	mg/Kg	1	3/21/2020 4:06:22 AM	51122
Surr: 1,2-Dichloroethane-d4	91.8	70-130	%Rec	1	3/21/2020 4:06:22 AM	51122
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	3/21/2020 4:06:22 AM	51122
Surr: Dibromofluoromethane	96.3	70-130	%Rec	1	3/21/2020 4:06:22 AM	51122
Surr: Toluene-d8	102	70-130	%Rec	1	3/21/2020 4:06:22 AM	51122

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

### 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 Quanitative 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 Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003649

25-Mar-20

**Client:** Animas Environmental Services **Project:** Harvest Midstream Trunk S

Sample ID: MB-51212 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51212 RunNo: 67421

Prep Date: 3/19/2020 Analysis Date: 3/19/2020 SeqNo: 2326742 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-51212 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51212 RunNo: 67421

Analysis Date: 3/19/2020 Prep Date: 3/19/2020 SeqNo: 2326743 Units: mg/Kg

15.00

PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte HighLimit Qual 0

93.1

### Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: **2003649** 

25-Mar-20

Project: Harvest	Midstream Trunk S	
Sample ID: LCS-51100	SampType: <b>LCS</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51100	RunNo: 67313
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321410 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.2 5.000	84.7 55.1 146
Sample ID: MB-51100	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51100	RunNo: 67313
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321412 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00	90.4 55.1 146
Sample ID: MB-51124	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51124	RunNo: 67317
Prep Date: 3/16/2020	Analysis Date: 3/17/2020	SeqNo: 2323831 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) Surr: DNOP	ND 50 9.7 10.00	96.5 55.1 146
Comple ID: LCC E4424	CompType: LCC	TootCodo: EDA Mathad 2005M/D: Discal Dange Organica
Sample ID: LCS-51124 Client ID: LCSS	SampType: LCS  Batch ID: 51124	TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 67317
Prep Date: 3/16/2020	Analysis Date: 3/17/2020	SeqNo: 2323832 Units: mg/Kg
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	47 10 50.00	·
Surr: DNOP	4.7 5.000	94.2 55.1 146
Sample ID: MB-51159	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51159	RunNo: 67371
Prep Date: 3/17/2020	Analysis Date: 3/18/2020	SeqNo: 2324944 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.5 10.00	94.9 55.1 146
Sample ID: LCS-51159	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51159	RunNo: 67371
Prep Date: 3/17/2020	Analysis Date: 3/18/2020	SeqNo: <b>2324945</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.000	92.6 55.1 146

### 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 Quanitative 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 Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: **2003649** 

25-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: LCS-51201 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 51201 RunNo: 67313

Prep Date: 3/18/2020 Analysis Date: 3/20/2020 SeqNo: 2326279 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 3.9 5.000 77.7 55.1 146

Sample ID: MB-51201 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 51201 RunNo: 67313

Prep Date: 3/18/2020 Analysis Date: 3/20/2020 SeqNo: 2326281 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 8.6 10.00 86.0 55.1 146

### 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 Quanitative 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: 2003649

25-Mar-20

**Client:** Animas Environmental Services **Project:** Harvest Midstream Trunk S

Sample ID: Ics-51122	SampT	ype: <b>LC</b>	S	Tes	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS	Batch	Batch ID: 51122			RunNo: 6						
Prep Date: 3/16/2020	Analysis Date: 3/18/2020			8	SeqNo: 2						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.89	0.025	1.000	0	89.4	70	130				
Toluene	1.1	0.050	1.000	0	107	70	130				
Ethylbenzene	1.1	0.050	1.000	0	109	70	130				
Xylenes, Total	3.3	0.10	3.000	0	109	70	130				
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.4	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130				
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130				
Surr: Toluene-d8	0.51		0.5000		102	70	130				

Sample ID: mb-51122	ample ID: mb-51122 SampType: MBLK				TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batcl	n ID: <b>51</b>	122	F	RunNo: 6							
Prep Date: 3/16/2020	Analysis Date: 3/18/2020		9	SeqNo: 2	324956	Units: mg/K	/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: 1,2-Dichloroethane-d4	0.46		0.5000		92.1	70	130					
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130					
Surr: Dibromofluoromethane	0.49		0.5000		97.5	70	130					
Surr: Toluene-d8	0.52		0.5000		103	70	130					

### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003649

25-Mar-20

**Client:** Animas Environmental Services **Project:** Harvest Midstream Trunk S

Sample ID: Ics-51122 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 51122 RunNo: 67409

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2325012 Units: mg/Kg

%RPD **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 87.3 70 130

Surr: BFB 500 500.0 100 70 130

Sample ID: mb-51122 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 51122 RunNo: 67409

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2325013 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit Result HighLimit %RPD **RPDLimit** Qual

ND 5.0 Gasoline Range Organics (GRO)

Surr: BFB 490 500.0 98.4 70 130

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

## Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: Animas Environmental Work Order Number: 2003649 RcptNo: 1 Nagmin liftment Received By: Yazmine Garduno 3/12/2020 8:30:00 AM Completed By: Erin Melendrez 3/13/2020 2:41:57 PM Reviewed By: DAD 3/16/20 Chain of Custody 1. Is Chain of Custody sufficiently complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes 🗸 NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes V NA 🗌 No 🗌 Sample(s) in proper container(s)? Yes 🗸 Yes 🗸 6. Sufficient sample volume for indicated test(s)? No  $\square$ 7. Are samples (except VOA and ONG) properly preserved? No 🗌 Yes 🗸 8. Was preservative added to bottles? No V Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes 🗌 No 🗌 NA 🗸 Yes 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) No 🗌 Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: \$12 3/16/20 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax Regarding: Client Instructions: | 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 3.6 Good 2 3.7 Good

	ANALYSTS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109		Ina								SM 2540												contracted data will be clearly notated on the analytical report.
			01 Ha	3l. 505								;) s	Chloride	×	×	×	X	×				;;			Iny sub-
10.00			49	Ĕ			(910	08) (	ОЯИ	N,O			яә) нат	×	×	X	χ	K				Remarks:			bility. A
										4.80	(1	205	8) X3T8	×	×	×	×	х				Ren			s possil
Turn-Around Time:	Standard   Rush	Project Name:	Harvest Midstream Trunk S	Project #:		Project Manager:	idic tubbert	Elizabeth McNally		On Ice: D Yes		Cooler Temp(including CF): 55+0-1 = 3-y	Container Preservative HEAL No. Type and # Type	$\frac{2}{3}$ -40z jars   cool   -00	200-)	7 0.03	2-412/evs Co. 1 -004	S00- 7 F				Received by: Via: Date Time $3/1/3$	Sure Wies	N rowrie stabe 0830	ted to other accredited laboratories. This serves as notice of this
5	Client: Animas Environmental Services, LLC	Pro	is: P.O. Box8	Farmington, NM 87499-0008	Phone #: 505.564.2281	email or Fax#: emcnally@animasenvironmental.com   Prc		☐ Level 4 (Full Validation)	Az Compliance	□ OtherOn	0#	8	Matrix Sample Name	Soil SB-30M'	Soil SB-3 @ 49'	Soil SB-3 @ 55'	5011 58-4 @ 39' 24	Sil 584653'				Religquished by:	Reimquished by:	Muslim I Dales	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
hair	Anima		Addres		: 505.	Fax#:	ackage	dard	ation:	ပ္ခ	EDD (Type)		Time	16:09	67:8	9:40	13:11	1425				Time:	Time:	1804	necessar
ပ	Client:		Mailing Address:		Phone #	email or	QA/QC Package:	X Standard	Accreditation:		□ EDD		Date	2-62	3-10-20	3-10-20	3-16-20					Date:		3/11/20	H H



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

March 25, 2020

Eddie Hubbert Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX: (505) 324-2022

RE: Harvest Midstream Trunk S OrderNo.: 2003651

### Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/13/2020 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,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-5 @ 34'

Project: Harvest Midstream Trunk S

Lab ID: 2003651-001

Matrix: SOIL

Received Date: 3/11/2020 11:08:00 AM

Received Date: 3/13/2020 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 3:23:31 PM	51212
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/21/2020 4:34:52 AM	51122
Surr: BFB	98.8	70-130	%Rec	1	3/21/2020 4:34:52 AM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/17/2020 2:14:49 PM	51124
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/17/2020 2:14:49 PM	51124
Surr: DNOP	99.0	55.1-146	%Rec	1	3/17/2020 2:14:49 PM	51124
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	3/21/2020 4:34:52 AM	51122
Toluene	ND	0.049	mg/Kg	1	3/21/2020 4:34:52 AM	51122
Ethylbenzene	ND	0.049	mg/Kg	1	3/21/2020 4:34:52 AM	51122
Xylenes, Total	ND	0.099	mg/Kg	1	3/21/2020 4:34:52 AM	51122
Surr: 1,2-Dichloroethane-d4	80.1	70-130	%Rec	1	3/21/2020 4:34:52 AM	51122
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	3/21/2020 4:34:52 AM	51122
Surr: Dibromofluoromethane	93.4	70-130	%Rec	1	3/21/2020 4:34:52 AM	51122
Surr: Toluene-d8	101	70-130	%Rec	1	3/21/2020 4:34:52 AM	51122

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

### 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 Quanitative 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 Limit

Page 1 of 7

Date Reported: 3/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-5 @ 59'

Project: Harvest Midstream Trunk S Collection Date: 3/11/2020 1:09:00 PM

Lab ID: 2003651-002 Matrix: SOIL Received Date: 3/13/2020 8:10:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 4:00:35 PM	51212
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/21/2020 5:03:28 AM	51122
Surr: BFB	95.6	70-130	%Rec	1	3/21/2020 5:03:28 AM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/17/2020 2:38:55 PM	51124
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/17/2020 2:38:55 PM	51124
Surr: DNOP	97.9	55.1-146	%Rec	1	3/17/2020 2:38:55 PM	51124
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.024	mg/Kg	1	3/21/2020 5:03:28 AM	51122
Toluene	ND	0.048	mg/Kg	1	3/21/2020 5:03:28 AM	51122
Ethylbenzene	ND	0.048	mg/Kg	1	3/21/2020 5:03:28 AM	51122
Xylenes, Total	ND	0.096	mg/Kg	1	3/21/2020 5:03:28 AM	51122
Surr: 1,2-Dichloroethane-d4	89.6	70-130	%Rec	1	3/21/2020 5:03:28 AM	51122
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	3/21/2020 5:03:28 AM	51122
Surr: Dibromofluoromethane	93.5	70-130	%Rec	1	3/21/2020 5:03:28 AM	51122
Surr: Toluene-d8	98.0	70-130	%Rec	1	3/21/2020 5:03:28 AM	51122

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

### 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 Quanitative 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 Limit

Page 2 of 7

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003651

25-Mar-20

**Client:** Animas Environmental Services **Project:** Harvest Midstream Trunk S

Sample ID: MB-51212 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51212 RunNo: 67421

Prep Date: 3/19/2020 Analysis Date: 3/19/2020 SeqNo: 2326742 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-51212 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51212 RunNo: 67421

Analysis Date: 3/19/2020 Prep Date: 3/19/2020 SeqNo: 2326743 Units: mg/Kg

15.00

PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte HighLimit Qual 0

93.1

Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 3 of 7

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: **2003651** 

25-Mar-20

Project: Harvest	t Midstream Trunk S	
Sample ID: LCS-51100	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51100	RunNo: 67313
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: <b>2321410</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.2 5.000	84.7 55.1 146
Sample ID: MB-51100	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51100	RunNo: 67313
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321412 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00	90.4 55.1 146
Sample ID: MB-51124	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51124	RunNo: 67317
Prep Date: 3/16/2020	Analysis Date: 3/17/2020	SeqNo: 2323831 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) Surr: DNOP	ND 50 9.7 10.00	96.5 55.1 146
Sample ID: LCS-51124	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS Prep Date: 3/16/2020	Batch ID: <b>51124</b>	RunNo: <b>67317</b> SeqNo: <b>2323832</b> Units: <b>mg/Kg</b>
	Analysis Date: 3/17/2020	
Analyte Diesel Range Organics (DRO)	Result PQL SPK value 47 10 50.00	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 0 94.1 70 130
Surr: DNOP	4.7 5.000	94.2 55.1 146
Sample ID: <b>MB-51159</b>	SampType: <b>MBLK</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: <b>51159</b>	RunNo: <b>67371</b>
Prep Date: <b>3/17/2020</b>	Analysis Date: 3/18/2020	SeqNo: 2324944 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.5 10.00	94.9 55.1 146
Sample ID: LCS-51159	SampType: <b>LCS</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51159	RunNo: <b>67371</b>
Prep Date: 3/17/2020	Analysis Date: 3/18/2020	SeqNo: <b>2324945</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.000	92.6 55.1 146

### 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 Quanitative 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 Limit

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2003651** 

25-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: LCS-51201 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 51201 RunNo: 67313

Prep Date: 3/18/2020 Analysis Date: 3/20/2020 SeqNo: 2326279 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 3.9 5.000 77.7 55.1 146

Sample ID: MB-51201 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 51201 RunNo: 67313

Prep Date: 3/18/2020 Analysis Date: 3/20/2020 SeqNo: 2326281 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 8.6 10.00 86.0 55.1 146

### 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 Quanitative 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

# Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2003651** 

25-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: Ics-51122	SampT	SampType: LCS TestCode: EPA Method 83					8260B: Vola	tiles Short	List		
Client ID: LCSS	Batcl	Batch ID: <b>51122</b> RunNo: <b>67409</b>			7409						
Prep Date: 3/16/2020	Analysis D	Date: 3/	18/2020	8	SeqNo: 2	324955	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.89	0.025	1.000	0	89.4	70	130				
Toluene	1.1	0.050	1.000	0	107	70	130				
Ethylbenzene	1.1	0.050	1.000	0	109	70	130				
Xylenes, Total	3.3	0.10	3.000	0	109	70	130				
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.4	70	130				
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130				
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130				
Surr: Toluene-d8	0.51		0.5000		102	70	130				

TestCode: EPA Method 8260B: Volatiles Short List

		,,								
Client ID: PBS	Batc	h ID: <b>51</b>	122	F	RunNo: 6	7409				
Prep Date: 3/16/2020	Analysis [	Date: <b>3/</b>	18/2020	S	SeqNo: 2	324956	Units: mg/K	(g		
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: 1,2-Dichloroethane-d4	0.46		0.5000		92.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.5	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

Sample ID: mb-51122

8 % 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

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2003651** 

25-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: Ics-51122 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 51122 RunNo: 67409

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2325012 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 22 5.0 25.00 0 87.3 70 130

Gasoline Range Organics (GRO) 22 5.0 25.00 0 87.3 70 130 Surr: BFB 500 500.0 100 70 130

Sample ID: mb-51122 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 51122 RunNo: 67409

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2325013 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 490 500.0 98.4 70 130

#### 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 Quanitative 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



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: 2003651 RcptNo: 1 Received By: Juan Rojas 3/13/2020 8:10:00 AM Completed By: Erin Melendrez 3/13/2020 2:55:23 PM 3/16/20 Reviewed By: Chain of Custody No 🗌 1. Is Chain of Custody sufficiently complete? Yes 🗸 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? No 🗌 Yes 🗸 Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 No 🗸 8. Was preservative added to bottles? NA 🗌 Yes 🗌 NA 🗸 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 Yes Yes No 🗸 10. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 for pH: 11. Does paperwork match bottle labels? No 🗌 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? No 🗌 Yes 🗸 Checked by: JR 3/16/20 14. Were all holding times able to be met? No 🗌 Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes NA 🗸 No \_\_ Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1 3.6 Good 2 3.7 Good

Chain-of-Custody Record	Turn-Around Time:	
Client: Animas Environmental Services, LLC	Standard 🗆 Rush	HALL ENVIRONMENTAL
		ANALTSIS LABORATORY
Aailing Address: P.O. Box8	Harvest Midstream Trunk S	m
Farmington, NM 87499-0008	Project #:	- Albuqu
hone #: 505.564.2281		1el. 505-545-5975 Fax 505-345-4107
mail or Fax#: emcnally@animasenvironmental.com	Project Manager:	Ican have credit in
(A)QC Package:		(9108
1:	Sampler: (1/2	) (08
□ Other	A.A	
1 EDD (Type)	olers: 1	ОЯ
	Cooler Temp(including CF): (./-0./=(.0	1,0,0 s (30
late   Time   Matrix   Sample Name	Container Preservative HEAL No. Type and # Type	1 (GR 1 (GR 20.1 (CR 20.1 (CR 20.1 (CR
11-20 11:18 54:1 58-5@ 34'	looo	
11-20 13:09 S.11 SB-5@59'	3	2 8
	Received by: Via: Date Time	Remarks:
1/20 1/540 Relinguished by:	Received by: Via: Date Time/	
If necessary, samples submitted to Hall Environmental may be subcor	ontracted to other accredited laboratories. This serves as notice of this	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

March 25, 2020

Eddie Hubbert Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX: (505) 324-2022

RE: Harvest Midstream Trunk S OrderNo.: 2003679

### Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/14/2020 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,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-6 @ 19'

Project:Harvest Midstream Trunk SCollection Date: 3/11/2020 3:20:00 PMLab ID:2003679-001Matrix: SOILReceived Date: 3/14/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	59	mg/Kg	20	3/22/2020 9:52:10 AM	51249
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/21/2020 5:31:57 AM	51122
Surr: BFB	95.4	70-130	%Rec	1	3/21/2020 5:31:57 AM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/19/2020 5:53:08 AM	51152
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/19/2020 5:53:08 AM	51152
Surr: DNOP	96.8	55.1-146	%Rec	1	3/19/2020 5:53:08 AM	51152
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	3/21/2020 5:31:57 AM	51122
Toluene	ND	0.049	mg/Kg	1	3/21/2020 5:31:57 AM	51122
Ethylbenzene	ND	0.049	mg/Kg	1	3/21/2020 5:31:57 AM	51122
Xylenes, Total	ND	0.099	mg/Kg	1	3/21/2020 5:31:57 AM	51122
Surr: 1,2-Dichloroethane-d4	87.2	70-130	%Rec	1	3/21/2020 5:31:57 AM	51122
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	3/21/2020 5:31:57 AM	51122
Surr: Dibromofluoromethane	95.1	70-130	%Rec	1	3/21/2020 5:31:57 AM	51122
Surr: Toluene-d8	98.6	70-130	%Rec	1	3/21/2020 5:31:57 AM	51122

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

### 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 Quanitative 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 Limit

Date Reported: 3/25/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-6 @ 29'

Project: Harvest Midstream Trunk S Collection Date: 3/12/2020 8:23:00 AM

Lab ID: 2003679-002 Matrix: SOIL Received Date: 3/14/2020 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	60	mg/Kg	20	3/22/2020 10:04:32 AM	51249
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/21/2020 6:00:24 AM	51122
Surr: BFB	97.2	70-130	%Rec	1	3/21/2020 6:00:24 AM	51122
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/19/2020 6:16:56 AM	51152
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/19/2020 6:16:56 AM	51152
Surr: DNOP	95.3	55.1-146	%Rec	1	3/19/2020 6:16:56 AM	51152
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>					Analyst	: JMR
Benzene	ND	0.025	mg/Kg	1	3/21/2020 6:00:24 AM	51122
Toluene	ND	0.049	mg/Kg	1	3/21/2020 6:00:24 AM	51122
Ethylbenzene	ND	0.049	mg/Kg	1	3/21/2020 6:00:24 AM	51122
Xylenes, Total	ND	0.098	mg/Kg	1	3/21/2020 6:00:24 AM	51122
Surr: 1,2-Dichloroethane-d4	88.4	70-130	%Rec	1	3/21/2020 6:00:24 AM	51122
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	3/21/2020 6:00:24 AM	51122
Surr: Dibromofluoromethane	94.1	70-130	%Rec	1	3/21/2020 6:00:24 AM	51122
Surr: Toluene-d8	97.1	70-130	%Rec	1	3/21/2020 6:00:24 AM	51122

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

### 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 Quanitative 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 Limit

Page 2 of 6

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2003679** 

25-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: MB-51249 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51249 RunNo: 67482

Prep Date: 3/20/2020 Analysis Date: 3/22/2020 SeqNo: 2328900 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-51249 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51249 RunNo: 67482

Prep Date: 3/20/2020 Analysis Date: 3/22/2020 SeqNo: 2328901 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride 14 1.5 15.00 0 93.7 90 110

### 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 Quanitative 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 Limit

Page 3 of 6

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: **2003679** 

25-Mar-20

Project: Harvest	Midstream Trunk S		
Sample ID: LCS-51100	SampType: <b>LCS</b>	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51100	RunNo: 67313	
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321410	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.2 5.000	84.7 55.1	146
Sample ID: <b>MB-51100</b>	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51100	RunNo: 67313	
Prep Date: 3/13/2020	Analysis Date: 3/17/2020	SeqNo: 2321412	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00	90.4 55.1	146
Sample ID: LCS-51152	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 51152	RunNo: 67313	
Prep Date: 3/17/2020	Analysis Date: 3/19/2020	SeqNo: <b>2325138</b>	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	48 10 50.00	0 96.6 70	130
Surr: DNOP	4.1 5.000	81.4 55.1	146
Sample ID: <b>MB-51152</b>	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 51152	RunNo: 67313	
Prep Date: 3/17/2020	Analysis Date: 3/19/2020	SeqNo: <b>2325139</b>	Units: mg/Kg
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 9.2 10.00	91.7 55.1	146
		TodOods EDAM 41 1	201511/2 2: 12 2 :
Sample ID: LCS-51201 Client ID: LCSS	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
	Potob ID: E4204	DunNo: C7343	
	Batch ID: <b>51201</b>	RunNo: 67313	Unite: % Pag
Prep Date: 3/18/2020	Analysis Date: 3/20/2020	SeqNo: <b>2326279</b>	Units: %Rec
Prep Date: <b>3/18/2020</b> Analyte	Analysis Date: 3/20/2020  Result PQL SPK value	SeqNo: 2326279 SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Prep Date: 3/18/2020 Analyte Surr: DNOP	Analysis Date: 3/20/2020  Result PQL SPK value  3.9 5.000	SeqNo:         2326279           SPK Ref Val         %REC         LowLimit           77.7         55.1	HighLimit %RPD RPDLimit Qual
Prep Date: 3/18/2020 Analyte Surr: DNOP Sample ID: MB-51201	Analysis Date: 3/20/2020           Result         PQL         SPK value           3.9         5.000           SampType: MBLK	SeqNo: 2326279           SPK Ref Val         %REC         LowLimit           77.7         55.1           TestCode: EPA Method	HighLimit %RPD RPDLimit Qual
Prep Date: 3/18/2020  Analyte  Surr: DNOP  Sample ID: MB-51201  Client ID: PBS	Analysis Date: 3/20/2020           Result         PQL         SPK value           3.9         5.000           SampType: MBLK           Batch ID: 51201	SeqNo:         2326279           SPK Ref Val         %REC         LowLimit           77.7         55.1           TestCode: EPA Method           RunNo:         67313	HighLimit %RPD RPDLimit Qual 146  8015M/D: Diesel Range Organics
Prep Date: 3/18/2020  Analyte Surr: DNOP  Sample ID: MB-51201 Client ID: PBS Prep Date: 3/18/2020	Analysis Date: 3/20/2020  Result PQL SPK value 3.9 5.000  SampType: MBLK Batch ID: 51201  Analysis Date: 3/20/2020	SeqNo: 2326279  SPK Ref Val %REC LowLimit 77.7 55.1  TestCode: EPA Method RunNo: 67313 SeqNo: 2326281	HighLimit %RPD RPDLimit Qual 146  8015M/D: Diesel Range Organics  Units: %Rec
Prep Date: 3/18/2020  Analyte  Surr: DNOP  Sample ID: MB-51201  Client ID: PBS	Analysis Date: 3/20/2020  Result PQL SPK value 3.9 5.000  SampType: MBLK Batch ID: 51201  Analysis Date: 3/20/2020	SeqNo:         2326279           SPK Ref Val         %REC         LowLimit           77.7         55.1           TestCode: EPA Method           RunNo:         67313	HighLimit %RPD RPDLimit Qual 146  8015M/D: Diesel Range Organics

### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

8 % 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 Limit

Page 4 of 6

# Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2003679** 

25-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: Ics-51122	SampT	SampType: LCS TestCode: EPA Method 82				8260B: Vola	tiles Short	List		
Client ID: LCSS	Batcl	Batch ID: 51122 RunNo: 67409			7409					
Prep Date: 3/16/2020	Analysis D	Date: 3/	18/2020	8	SeqNo: 2	324955	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.4	70	130			
Toluene	1.1	0.050	1.000	0	107	70	130			
Ethylbenzene	1.1	0.050	1.000	0	109	70	130			
Xylenes, Total	3.3	0.10	3.000	0	109	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.4	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

· '										
Client ID: PBS	Batcl	h ID: <b>51</b>	122	F	RunNo: 6	7409				
Prep Date: 3/16/2020	Analysis D	Date: <b>3/</b>	18/2020	8	SeqNo: 2	324956	Units: mg/K	(g		
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: 1,2-Dichloroethane-d4	0.46		0.5000		92.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.5	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

TestCode: EPA Method 8260B: Volatiles Short List

### 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 Quanitative Limit

Sample ID: mb-51122

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

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2003679

25-Mar-20

**Client:** Animas Environmental Services **Project:** Harvest Midstream Trunk S

Sample ID: Ics-51122 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 51122 RunNo: 67409

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2325012 Units: mg/Kg

%RPD **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 87.3 70 130

Surr: BFB 500 500.0 100 70 130

Sample ID: mb-51122 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 51122 RunNo: 67409

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2325013 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit Result HighLimit %RPD **RPDLimit** Qual

ND 5.0 Gasoline Range Organics (GRO)

Surr: BFB 490 500.0 98.4 70 130

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 6 of 6



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

RcptNo: 1 Work Order Number: 2003679 Client Name: Animas Environmental inas 3/14/2020 8:15:00 AM Received By: Erin Melendrez unt. 3/14/2020 11:16:24 AM Completed By: Erin Melendrez JR 3/16/20 Reviewed By: Chain of Custody No 🗌 Not Present Yes 🗸 1. Is Chain of Custody sufficiently complete? 2. How was the sample delivered? Courier Log In NA 🗌 Yes 🗸 No 🗌 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes 🗸 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 5. Sample(s) in proper container(s)? No 🗌 Yes 🗸 6 Sufficient sample volume for indicated test(s)? Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? No 🗸 NA 🗌 Yes 8. Was preservative added to bottles? NA 🗸 Yes No 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗸 10. Were any sample containers received broken? # of preserved bottles checked No 🗌 Yes 🗸 for pH: 11. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🗸 12. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🗸 13. Is it clear what analyses were requested? Checked by: DAD 3/16/20 No 🗌 Yes 🗸 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗸 Yes No 🗔 15. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax ☐ In Person Via: By Whom: Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C Seal Date Signed By Cooler No Condition Seal Intact Seal No 3.7 Good 2 0.5 Good

Chain-of-Custody Record	Turn-Around Time:	
Client: Animas Environmental Services, LLC	Standard 🗆 Rush	ANAI VSTS I ARODATODA
	Project Name:	www.hallenvironmental.com
Mailing Address: P.O. Box8	Harvest Midstream Trunk S	4901 Hawkins NE - Albuquerque NM 87109
Farmington, NM 87499-0008	Project #:	
Phone #: 505.564.2281		Anal
email or Fax#: emcnally@animasenvironmental.com	Project Manag	
QA/QC Package: X Standard   Level 4 (Full Validation)		(3108)
Accreditation:   Az Compliance	Sampler: CL	Т
	DX	
□ EDD (Type)	# of Coolers: 2	אכ
	Cooler Temp(including CF): 3.1. +0.1(CF)=3.70C	3,O; s (3
Date Time Matrix Sample Name	Container Preservative HEAL No.  Type and # Type $200.3(70)$	ETEX (8 TPH (GR Chloride: SM 2320 120.1 SM 2540
3-11-20 15:20 Swil SB-6 e 19"	2 - 2 - 3 - 40z jars   2 - 00	×
3-12-20 8:23 Svil SB-6 0 291	2-402 jurs 2-600 1 -007	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Date: Time: Relinquished by:	Via:	Remarks:
2	tallibert 1/3/20	
Jaco   St.   Relipquished by:	Received by: Via:COUNTION Date Time 1815	
rv. samples subr		e noceihility. Any cith-contracted data will be closely and an about a she is a second of the contracted data will be closely and an about a second of the contracted data will be closely and an about a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the contracted data will be contracted as a second of the

y, samples submitted to Hall Environmental may be si (Month, Math, Masher



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

March 26, 2020

Elizabeth McNally Animas Environmental Services 604 Pinon Street Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Harvest Midstream Trunk S OrderNo.: 2003860

### Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/17/2020 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,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

### Lab Order 2003860

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/26/2020

**CLIENT:** Animas Environmental Services Client Sample ID: SB-7@34'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 10:00:00 AM

 Lab ID:
 2003860-001
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: ЈМТ
Chloride	ND	59	mg/Kg	20	3/22/2020 2:23:46 PM	51249
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/23/2020 3:35:24 PM	51243
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/23/2020 3:35:24 PM	51243
Surr: DNOP	94.9	55.1-146	%Rec	1	3/23/2020 3:35:24 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/22/2020 12:28:29 AM	51229
Surr: BFB	97.2	66.6-105	%Rec	1	3/22/2020 12:28:29 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	0.025	mg/Kg	1	3/22/2020 12:28:29 AM	51229
Toluene	ND	0.049	mg/Kg	1	3/22/2020 12:28:29 AM	51229
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2020 12:28:29 AM	51229
Xylenes, Total	ND	0.099	mg/Kg	1	3/22/2020 12:28:29 AM	51229
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	3/22/2020 12:28:29 AM	51229

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

#### 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 Quanitative 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 Limit

Page 1 of 17

### Lab Order 2003860

Date Reported: 3/26/2020

Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SB-7@19'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 9:20:00 AM

 Lab ID:
 2003860-002
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	61	mg/Kg	20	3/22/2020 2:36:07 PM	51249
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/23/2020 4:47:00 PM	51243
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/23/2020 4:47:00 PM	51243
Surr: DNOP	95.8	55.1-146	%Rec	1	3/23/2020 4:47:00 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/22/2020 12:52:05 AM	51229
Surr: BFB	103	66.6-105	%Rec	1	3/22/2020 12:52:05 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	3/22/2020 12:52:05 AM	51229
Toluene	ND	0.048	mg/Kg	1	3/22/2020 12:52:05 AM	51229
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2020 12:52:05 AM	51229
Xylenes, Total	0.16	0.096	mg/Kg	1	3/22/2020 12:52:05 AM	51229
Surr: 4-Bromofluorobenzene	112	80-120	%Rec	1	3/22/2020 12:52:05 AM	51229

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

#### 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 Quanitative 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 Limit
- nple pH Not In Range
  Page 2 of 17

### Lab Order **2003860**

Date Reported: 3/26/2020

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SB-8@19'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 11:10:00 AM

 Lab ID:
 2003860-003
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: ЈМТ
Chloride	310	60	mg/Kg	20	3/22/2020 2:48:27 PM	51249
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: CLP
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/23/2020 5:10:52 PM	51243
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/23/2020 5:10:52 PM	51243
Surr: DNOP	96.9	55.1-146	%Rec	1	3/23/2020 5:10:52 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/22/2020 1:15:39 AM	51229
Surr: BFB	97.1	66.6-105	%Rec	1	3/22/2020 1:15:39 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	0.024	mg/Kg	1	3/22/2020 1:15:39 AM	51229
Toluene	ND	0.048	mg/Kg	1	3/22/2020 1:15:39 AM	51229
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2020 1:15:39 AM	51229
Xylenes, Total	ND	0.096	mg/Kg	1	3/22/2020 1:15:39 AM	51229
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	3/22/2020 1:15:39 AM	51229

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

#### 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 Quanitative 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 Limit

Page 3 of 17

#### Lab Order **2003860**

Date Reported: 3/26/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-8@29'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 11:35:00 AM

 Lab ID:
 2003860-004
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CAS
Chloride	ND	60	mg/Kg	20	3/22/2020 8:44:17 AM	51251
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	:: CLP
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/23/2020 5:34:44 PM	51243
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/23/2020 5:34:44 PM	51243
Surr: DNOP	95.8	55.1-146	%Rec	1	3/23/2020 5:34:44 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/22/2020 1:39:15 AM	51229
Surr: BFB	95.8	66.6-105	%Rec	1	3/22/2020 1:39:15 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	0.024	mg/Kg	1	3/22/2020 1:39:15 AM	51229
Toluene	ND	0.048	mg/Kg	1	3/22/2020 1:39:15 AM	51229
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2020 1:39:15 AM	51229
Xylenes, Total	ND	0.096	mg/Kg	1	3/22/2020 1:39:15 AM	51229
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	3/22/2020 1:39:15 AM	51229

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

#### 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 Quanitative Limit

- 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 Limit

Page 4 of 17

## Lab Order **2003860**

Date Reported: 3/26/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: SB-9@19'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 1:00:00 PM

 Lab ID:
 2003860-005
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CAS
Chloride	ND	60	mg/Kg	20	3/22/2020 9:21:30 AM	51251
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/23/2020 5:58:29 PM	51243
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/23/2020 5:58:29 PM	51243
Surr: DNOP	93.1	55.1-146	%Rec	1	3/23/2020 5:58:29 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/22/2020 2:02:52 AM	51229
Surr: BFB	93.6	66.6-105	%Rec	1	3/22/2020 2:02:52 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	:: RAA
Benzene	ND	0.025	mg/Kg	1	3/22/2020 2:02:52 AM	51229
Toluene	ND	0.049	mg/Kg	1	3/22/2020 2:02:52 AM	51229
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2020 2:02:52 AM	51229
Xylenes, Total	ND	0.098	mg/Kg	1	3/22/2020 2:02:52 AM	51229
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	3/22/2020 2:02:52 AM	51229

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

#### 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 Quanitative 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 Limit

Page 5 of 17

## Lab Order **2003860**

Date Reported: 3/26/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-9@29'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 1:20:00 PM

 Lab ID:
 2003860-006
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: CAS
Chloride	ND	60	mg/Kg	20	3/22/2020 9:33:55 AM	51251
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	:: CLP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/23/2020 6:22:14 PM	51243
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/23/2020 6:22:14 PM	51243
Surr: DNOP	96.6	55.1-146	%Rec	1	3/23/2020 6:22:14 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/22/2020 2:26:23 AM	51229
Surr: BFB	92.8	66.6-105	%Rec	1	3/22/2020 2:26:23 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	3/22/2020 2:26:23 AM	51229
Toluene	ND	0.048	mg/Kg	1	3/22/2020 2:26:23 AM	51229
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2020 2:26:23 AM	51229
Xylenes, Total	ND	0.097	mg/Kg	1	3/22/2020 2:26:23 AM	51229
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	3/22/2020 2:26:23 AM	51229

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

#### 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 Quanitative 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 Limit

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## Lab Order **2003860**

Date Reported: 3/26/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-10@19'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 2:15:00 PM

 Lab ID:
 2003860-007
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	3/22/2020 9:46:19 AM	51251
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/23/2020 7:55:47 PM	51243
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/23/2020 7:55:47 PM	51243
Surr: DNOP	83.4	55.1-146	%Rec	1	3/23/2020 7:55:47 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/22/2020 2:49:53 AM	51229
Surr: BFB	92.8	66.6-105	%Rec	1	3/22/2020 2:49:53 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	3/22/2020 2:49:53 AM	51229
Toluene	ND	0.049	mg/Kg	1	3/22/2020 2:49:53 AM	51229
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2020 2:49:53 AM	51229
Xylenes, Total	ND	0.097	mg/Kg	1	3/22/2020 2:49:53 AM	51229
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	3/22/2020 2:49:53 AM	51229

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

#### 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 Quanitative 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 Limit

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## Lab Order **2003860**

Date Reported: 3/26/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-10@29'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 2:35:00 PM

 Lab ID:
 2003860-008
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	3/22/2020 9:58:44 AM	51251
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/23/2020 8:20:07 PM	51243
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/23/2020 8:20:07 PM	51243
Surr: DNOP	86.3	55.1-146	%Rec	1	3/23/2020 8:20:07 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/22/2020 3:13:26 AM	51229
Surr: BFB	97.7	66.6-105	%Rec	1	3/22/2020 3:13:26 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	3/22/2020 3:13:26 AM	51229
Toluene	ND	0.048	mg/Kg	1	3/22/2020 3:13:26 AM	51229
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2020 3:13:26 AM	51229
Xylenes, Total	ND	0.096	mg/Kg	1	3/22/2020 3:13:26 AM	51229
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	3/22/2020 3:13:26 AM	51229

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

#### 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 Quanitative Limit

- 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 Limit

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## Lab Order **2003860**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/26/2020

CLIENT: Animas Environmental Services Client Sample ID: SB-11@19'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 3:40:00 PM

 Lab ID:
 2003860-009
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	60	mg/Kg	20	3/22/2020 10:11:08 AM	51251
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/23/2020 8:44:22 PM	51243
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/23/2020 8:44:22 PM	51243
Surr: DNOP	91.0	55.1-146	%Rec	1	3/23/2020 8:44:22 PM	51243
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/22/2020 3:36:58 AM	51229
Surr: BFB	97.2	66.6-105	%Rec	1	3/22/2020 3:36:58 AM	51229
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	3/22/2020 3:36:58 AM	51229
Toluene	ND	0.049	mg/Kg	1	3/22/2020 3:36:58 AM	51229
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2020 3:36:58 AM	51229
Xylenes, Total	0.11	0.099	mg/Kg	1	3/22/2020 3:36:58 AM	51229
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	3/22/2020 3:36:58 AM	51229

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

#### 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 Quanitative 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 Limit

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## Lab Order **2003860**

Date Reported: 3/26/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: SB-11@29'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/16/2020 3:50:00 PM

 Lab ID:
 2003860-010
 Matrix: SOIL
 Received Date: 3/17/2020 11:40:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	ND	61	mg/Kg	20	3/22/2020 10:48:23 AM	51251
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst	: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/22/2020 2:23:05 AM	51242
Surr: BFB	106	70-130	%Rec	1	3/22/2020 2:23:05 AM	51242
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/23/2020 9:08:40 PM	51243
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/23/2020 9:08:40 PM	51243
Surr: DNOP	90.1	55.1-146	%Rec	1	3/23/2020 9:08:40 PM	51243
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>	-				Analyst	: DJF
Benzene	ND	0.024	mg/Kg	1	3/22/2020 2:23:05 AM	51242
Toluene	ND	0.048	mg/Kg	1	3/22/2020 2:23:05 AM	51242
Ethylbenzene	ND	0.048	mg/Kg	1	3/22/2020 2:23:05 AM	51242
Xylenes, Total	ND	0.097	mg/Kg	1	3/22/2020 2:23:05 AM	51242
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	3/22/2020 2:23:05 AM	51242
Surr: 4-Bromofluorobenzene	86.7	70-130	%Rec	1	3/22/2020 2:23:05 AM	51242
Surr: Dibromofluoromethane	101	70-130	%Rec	1	3/22/2020 2:23:05 AM	51242
Surr: Toluene-d8	99.6	70-130	%Rec	1	3/22/2020 2:23:05 AM	51242

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

#### 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 Quanitative 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 Limit

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**Client:** 

Analyte

Sample ID: LCS-51251

Chloride

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

Result

ND

PQL

SampType: Ics

1.5

WO#: **2003860** 

26-Mar-20

**Project:** Harvest Midstream Trunk S Sample ID: MB-51249 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 51249 RunNo: 67482 SeqNo: 2328900 Prep Date: 3/20/2020 Analysis Date: 3/22/2020 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Chloride ND 1.5 Sample ID: LCS-51249 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 51249 RunNo: 67482 Prep Date: 3/20/2020 Analysis Date: 3/22/2020 SeqNo: 2328901 Units: mg/Kg Result SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Chloride 14 1.5 15.00 93.7 Sample ID: MB-51251 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 51251 RunNo: 67489 Prep Date: 3/20/2020 Analysis Date: 3/22/2020 SeqNo: 2329146 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit

HighLimit

TestCode: EPA Method 300.0: Anions

%RPD

**RPDLimit** 

Qual

Qual

Client ID: LCSS	Batch	ID: <b>512</b>	251	R	tunNo: 67	7489			
Prep Date: 3/20/2020	Analysis Da	ate: 3/2	22/2020	S	SeqNo: 23	329147	Units: mg/K	(g	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Chloride	14	1.5	15.00	0	94.7	90	110		

- 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 Quanitative 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 Limit

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

WO#: **2003860** 

26-Mar-20

Motor Oil Range Organics (MRO)   Surr: DNOP   9.0   10.00   89.5   55.1   146	Project: Harvest N	Midstream Trunk S	8							
Prep Date:	Sample ID: LCS-51240	SampType: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Analyte	Client ID: LCSS	Batch ID: 512	240	F	tunNo: 67	7492				
Sum: DNOP	Prep Date: 3/20/2020	Analysis Date: 3/2	23/2020	S	SeqNo: 2	329264	Units: %Red	;		
Sum: DNOP	Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID:   PBS								,,,,,,		
Prep Date: 3/20/2020	Sample ID: <b>MB-51240</b>	SampType: MB	BLK	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	e Organics	
Analyte   Result   PQL   SPK value   SPK Ref Val   %REC   LowLimit   HighLimit   %RPD   RPDLimit   Qual	Client ID: PBS	Batch ID: 512	240	F	lunNo: 67	7492				
Sample   D: MB-51243	Prep Date: 3/20/2020	Analysis Date: 3/2	23/2020	S	SeqNo: 2	329265	Units: %Red	:		
Sample   D: MB-51243	Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Client ID:   PBS		9.7	10.00		97.4	55.1				
Prep Date: 3/20/2020	Sample ID: <b>MB-51243</b>	SampType: MB	BLK	Tes	tCode: <b>EF</b>	PA Method	8015M/D: Die	sel Range	e Organics	
Analyte	Client ID: PBS	Batch ID: 512	243	F	tunNo: 67	7488				
Diesel Range Organics (DRO)   ND   10   ND   50   Surr. DNOP   9.0   10.00   89.5   55.1   146   Surr. DNOP   9.0   10.00   89.5   Surr. DNOP   130   Surr. DNOP   14.5   5.000   89.5   55.1   146   Surr. DNOP   14.5   Surr. DN	Prep Date: 3/20/2020	Analysis Date: 3/2	23/2020	S	SeqNo: 2	329303	Units: mg/K	g		
Motor Oil Range Organics (MRO)         ND         50           Surr; DNOP         9.0         10.00         89.5         55.1         146           Sample ID: LCS-51243         Sample ID: 51243         TestCode: EPA Method 8015M/D: Diesel Range Organics           Client ID: LCSS         Batch ID: 51243         RunNo: 67488         Prep Date: 3/20/2020         Analysis Date: 3/23/2020         SPK value SPK Ref Val Method 8015M/D: Diesel Range (Nganics) (DRO)         46         10         50.00         0         91.7         70         130         70         70         130	Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sum: DNOP   9.0   10.00   89.5   55.1   146	Diesel Range Organics (DRO)									
Sample ID: LCS-51243         SampType: LCS         TestCode: EPA Method 8015M/D: Diesel Range Organics           Client ID: LCSS         Batch ID: 51243         RunNo: 67488           Prep Date:         3/20/2020         Analysis Date:         3/23/2020         SeqNo: 2329304         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK value         SPK value         SPK value         SPK value         PREC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Diesel Range Organics (DRO)         46         10         50.00         0         91.7         70         130         70         130         70         130         70         130         70         130         70         146         70         70         130         70         146         70         70         130         70         140         70         140         70         70         130         70         70         130         70         70         140         70         70         140         70         70         70         70         70         70         70         70         70         70         70         70         70         70 <td>• • , ,</td> <td></td> <td>10.00</td> <td></td> <td>80.5</td> <td>55.1</td> <td>146</td> <td></td> <td></td> <td></td>	• • , ,		10.00		80.5	55.1	146			
Client ID:										
Prep Date:         3/20/2020         Analysis Date:         3/23/2020         SeqNo:         2329304         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Diesel Range Organics (DRO) Surr: DNOP         46         10         50.00         0         91.7         70         130         70         130         70         130         70         130         70         130         70         130         70         130         70         130         70         130         70         130         70         130         70         130         70         130         70         130         70         70         130         70         130         70         130         70         70         130         70         70         130         70         70         130         70         70         130         70         70         130         70         70         130         70         70         70         70         70         70         70         70         70         70         70         70         70							8015M/D: Die	esel Range	e Organics	
Analyte	I Client ID: I CSS	Ratch ID: 513	2/12							
Diesel Range Organics (DRO)			-		_					
Sum: DNOP         4.5         5.000         89.5         55.1         146           Sample ID: 2003860-001AMS         SampType: MS         TestCode: EPA Method 8015M/D: Diesel Range Organics           Client ID: SB-7@34'         Batch ID: 51243         RunNo: 67488           Prep Date: 3/20/2020         Analysis Date: 3/23/2020         SPK value SPK Ref Val Market SPK Ref V			-		_		Units: mg/K	g		
Sample ID: 2003860-001AMS       SampType: MS       TestCode: EPA Method 8015M/D: Diesel Range Organics         Client ID:       SB-7@34'       Batch ID:       51243       RunNo:       67488         Prep Date:       3/20/2020       Analysis Date:       3/23/2020       SeqNo:       2330207       Units: mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit       Qual         Diesel Range Organics (DRO)       43       9.1       45.50       0       94.0       47.4       136         Surr: DNOP       4.3       9.1       45.50       0       95.2       55.1       146         Sample ID:       2003860-001AMSD       SampType:       MSD       TestCode:       EPA Method       8015M/D:       Diesel Range Organics         Client ID:       SB-7@34'       Batch ID:       51243       RunNo:       67488         Prep Date:       3/20/2020       Analysis Date:       3/23/2020       SeqNo:       2330208       Units:       mg/Kg         Analyte       Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPD	Prep Date: 3/20/2020 Analyte	Analysis Date: 3/2 Result PQL	<b>23/2020</b> SPK value	SPK Ref Val	SeqNo: 2:	329304 LowLimit	HighLimit	_	RPDLimit	Qual
Client ID: SB-7@34' Batch ID: 51243 RunNo: 67488  Prep Date: 3/20/2020 Analysis Date: 3/23/2020 SeqNo: 2330207 Units: mg/Kg  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual  Diesel Range Organics (DRO) 43 9.1 45.50 0 94.0 47.4 136  Surr: DNOP 4.3 4.3 4.550 95.2 55.1 146  Sample ID: 2003860-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics  Client ID: SB-7@34' Batch ID: 51243 RunNo: 67488  Prep Date: 3/20/2020 Analysis Date: 3/23/2020 SeqNo: 2330208 Units: mg/Kg  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date: 3/20/2020 Analyte Diesel Range Organics (DRO)	Analysis Date: 3/2 Result PQL 46 10	23/2020 SPK value 50.00	SPK Ref Val	%REC 91.7	329304 LowLimit 70	HighLimit	_	RPDLimit	Qual
Prep Date:         3/20/2020         Analysis Date:         3/23/2020         SeqNo:         2330207         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual           Diesel Range Organics (DRO) Surr: DNOP         43         9.1         45.50         0         94.0         47.4         136         45.50         146         45.50         146         45.50         146         45.50         146         45.50         146         45.50         146         45.50         146         45.50         146         45.50	Prep Date: 3/20/2020 Analyte Diesel Range Organics (DRO)	Analysis Date: 3/2 Result PQL 46 10	23/2020 SPK value 50.00	SPK Ref Val	%REC 91.7	329304 LowLimit 70	HighLimit	_	RPDLimit	Qual
Analyte	Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO)  Surr: DNOP	Analysis Date: 3/2  Result PQL  46 10  4.5	23/2020 SPK value 50.00 5.000	SPK Ref Val 0	%REC 91.7 89.5	329304 LowLimit 70 55.1	HighLimit 130 146	%RPD		Qual
Diesel Range Organics (DRO)         43         9.1         45.50         0         94.0         47.4         136           Surr: DNOP         4.3         4.550         95.2         55.1         146           Sample ID: 2003860-001AMSD         SampType: MSD         TestCode: EPA Method 8015M/D: Diesel Range Organics           Client ID: SB-7@34'         Batch ID: 51243         RunNo: 67488           Prep Date: 3/20/2020         Analysis Date: 3/23/2020         SeqNo: 2330208         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Prep Date: 3/20/2020 Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS	Analysis Date: 3/3  Result PQL  46 10  4.5  SampType: MS	23/2020 SPK value 50.00 5.000	SPK Ref Val 0	%REC 91.7 89.5	29304 LowLimit 70 55.1 PA Method	HighLimit 130 146	%RPD		Qual
Surr: DNOP         4.3         4.550         95.2         55.1         146           Sample ID: 2003860-001AMSD         SampType: MSD         TestCode: EPA Method 8015M/D: Diesel Range Organics           Client ID:         SB-7@34'         Batch ID: 51243         RunNo: 67488           Prep Date:         3/20/2020         Analysis Date: 3/23/2020         SeqNo: 2330208         Units: mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD RPDLimit         Qual	Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS Client ID: SB-7@34'	Analysis Date: 3/2  Result PQL  46 10  4.5  SampType: MS  Batch ID: 512	23/2020 SPK value 50.00 5.000	SPK Ref Val 0 Tes	%REC 91.7 89.5 tCode: <b>EF</b>	2329304 LowLimit 70 55.1 PA Method 7488	HighLimit 130 146 <b>8015M/D: Die</b>	%RPD		Qual
Sample ID: 2003860-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: SB-7@34' Batch ID: 51243 RunNo: 67488 Prep Date: 3/20/2020 Analysis Date: 3/23/2020 SeqNo: 2330208 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS Client ID: SB-7@34' Prep Date: 3/20/2020  Analyte	Analysis Date: 3/3  Result PQL  46 10  4.5  SampType: MS  Batch ID: 512  Analysis Date: 3/3	23/2020 SPK value 50.00 5.000 6 243 23/2020	SPK Ref Val 0 Tes	%REC 91.7 89.5 tCode: EF tunNo: 67 SeqNo: 23	2329304 LowLimit 70 55.1 PA Method 7488 330207 LowLimit	HighLimit 130 146  8015M/D: Die Units: mg/K	%RPD	e Organics	
Client ID:         SB-7@34'         Batch ID:         51243         RunNo:         67488           Prep Date:         3/20/2020         Analysis Date:         3/23/2020         SeqNo:         2330208         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Qual	Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS Client ID: SB-7@34' Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO)	Analysis Date: 3/3    Result	23/2020 SPK value 50.00 5.000 6 243 23/2020 SPK value 45.50	SPK Ref Val  0  Tes:  F SPK Ref Val	%REC 91.7 89.5 Code: EF 2 2 2 %REC 94.0	29304 LowLimit 70 55.1 PA Method 7488 330207 LowLimit 47.4	HighLimit 130 146  8015M/D: Die Units: mg/K HighLimit 136	%RPD	e Organics	
Prep Date: 3/20/2020 Analysis Date: 3/23/2020 SeqNo: 2330208 Units: mg/Kg  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS Client ID: SB-7@34' Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO)	Analysis Date: 3/3    Result	23/2020 SPK value 50.00 5.000 6 243 23/2020 SPK value 45.50	SPK Ref Val  0  Tes:  F SPK Ref Val	%REC 91.7 89.5 Code: EF 2 2 2 %REC 94.0	29304 LowLimit 70 55.1 PA Method 7488 330207 LowLimit 47.4	HighLimit 130 146  8015M/D: Die Units: mg/K HighLimit 136	%RPD	e Organics	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS Client ID: SB-7@34' Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP	Analysis Date: 3/2  Result PQL  46 10  4.5  SampType: MS  Batch ID: 512  Analysis Date: 3/2  Result PQL  43 9.1  4.3	23/2020  SPK value 50.00 5.000  6  243 23/2020  SPK value 45.50 4.550	SPK Ref Val 0 Tes F SPK Ref Val 0	%REC 91.7 89.5 COde: EF SunNo: 65 SeqNo: 23 %REC 94.0 95.2	29304 LowLimit 70 55.1 PA Method 7488 330207 LowLimit 47.4 55.1	HighLimit 130 146  8015M/D: Die Units: mg/K HighLimit 136 146	%RPD esel Range g %RPD	e Organics RPDLimit	
,	Prep Date: 3/20/2020  Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS Client ID: SB-7@34' Prep Date: 3/20/2020  Analyte Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS	Analysis Date: 3/3  Result PQL  46 10  4.5  SampType: MS  Batch ID: 512  Analysis Date: 3/3  Result PQL  43 9.1  4.3  D SampType: MS	23/2020  SPK value 50.00 5.000  6 243 23/2020  SPK value 45.50 4.550	SPK Ref Val  0  Tes  SPK Ref Val  0  Tes	%REC 91.7 89.5 Code: EF	29304 LowLimit 70 55.1 PA Method 7488 330207 LowLimit 47.4 55.1	HighLimit 130 146  8015M/D: Die Units: mg/K HighLimit 136 146	%RPD esel Range g %RPD	e Organics RPDLimit	
Diesel Range Organics (DRO) 44 9.7 48.40 0 91.3 47.4 136 3.33 43.4	Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS  Client ID: SB-7@34' Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMSI Client ID: SB-7@34'	Analysis Date: 3/2  Result PQL  46 10  4.5  SampType: MS  Batch ID: 512  Analysis Date: 3/2  Result PQL  43 9.1  4.3  D SampType: MS  Batch ID: 512	23/2020  SPK value 50.00 5.000  3 243 23/2020  SPK value 45.50 4.550  6D	SPK Ref Val  0  Tes  SPK Ref Val  0  Tes	%REC 91.7 89.5 COde: EF 84.0 95.2 COde: EF 84.0 95.2 COde: EF 84.0 95.2	29304 LowLimit 70 55.1 PA Method 7488 330207 LowLimit 47.4 55.1 PA Method 7488	HighLimit 130 146  8015M/D: Die Units: mg/K HighLimit 136 146  8015M/D: Die	%RPD esel Range  %RPD  %RPD	e Organics RPDLimit	
	Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMS Client ID: SB-7@34' Prep Date: 3/20/2020  Analyte  Diesel Range Organics (DRO) Surr: DNOP  Sample ID: 2003860-001AMSI Client ID: SB-7@34' Prep Date: 3/20/2020	Analysis Date: 3/3  Result PQL  46 10  4.5  SampType: MS  Batch ID: 512  Analysis Date: 3/3  Result PQL  43 9.1  4.3  D SampType: MS  Batch ID: 512  Analysis Date: 3/3	23/2020  SPK value 50.00 5.000  3 243 23/2020  SPK value 45.50 4.550  6D 243 23/2020	SPK Ref Val  0  Tes: SPK Ref Val 0  Tes: SPK Ref Val 0	%REC 91.7 89.5 Code: EF 24.0 95.2 Code: EF 24.0 95.2 Code: EF 25.2 Code:	29304  LowLimit 70 55.1  PA Method 7488 330207  LowLimit 47.4 55.1  PA Method 7488 330208	HighLimit 130 146  8015M/D: Die Units: mg/K HighLimit 136 146  8015M/D: Die Units: mg/K	%RPD  esel Range  %RPD  esel Range	e Organics  RPDLimit  e Organics	Qual

#### 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 Quanitative 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 Limit

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Surr: DNOP

# Hall Environmental Analysis Laboratory, Inc.

4.4

WO#: **2003860** 

26-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: 2003860-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SB-7@34' Batch ID: 51243 RunNo: 67488

Prep Date: 3/20/2020 Analysis Date: 3/23/2020 SeqNo: 2330208 Units: mg/Kg

4.840

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

91.2

55.1

146

0

0

- 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 Quanitative 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 Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2003860** 

26-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: Ics-51229 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 51229 RunNo: 67473

Prep Date: 3/19/2020 Analysis Date: 3/21/2020 SeqNo: 2328341 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Gasoline Range Organics (GRO) 0 24 5.0 25.00 96.0 80 120

Surr: BFB 1100 1000 108 66.6 105 S

Sample ID: mb-51229 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 51229 RunNo: 67473

Prep Date: 3/19/2020 Analysis Date: 3/21/2020 SeqNo: 2328342 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 930 1000 93.1 66.6 105

#### 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 Quanitative 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 Limit

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# Hall Environmental Analysis Laboratory, Inc.

WO#: **2003860** 

26-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: LCS-51229 Client ID: LCSS	•	Гуре: <b>LC</b> h ID: <b>51</b> :			tCode: El		8021B: Vola	iles		
Prep Date: 3/19/2020	Analysis D	Date: 3/	21/2020	S	SeqNo: 2	2328368 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID: <b>mb-51229</b>	SampT	ype: <b>M</b>	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: PBS	Batch	n ID: <b>51</b>	229	F	RunNo: 6	7473						
Prep Date: 3/19/2020	Analysis D	Date: 3/	21/2020	8	SeqNo: 2	328369	Units: mg/k	(g				
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	1.0		1.000		102	80	120					

- 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 Quanitative 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 Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2003860** 

26-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: <b>mb-51242</b>	SampT	уре: МЕ	BLK	Tes	etCode: EPA Method 8260B: Volatiles Short List					
Client ID: PBS	Batcl	h ID: <b>51242</b> RunN				o: 67487				
Prep Date: 3/20/2020	Analysis D	Date: 3/	22/2020	S	SeqNo: 2	329072	Units: mg/K	(g		
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: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.2	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.49		0.5000		97.6	70	130			

Sample ID: Ics-51242	Sampl	ype: <b>LC</b>	s	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: LCSS	Batcl	n ID: <b>51</b> 2	242	F	RunNo: 6	7487				
Prep Date: 3/20/2020	Analysis D	Date: 3/	22/2020	5	SeqNo: 2	329073	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	/al %REC LowLimit		HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.9	70	130			
Toluene	0.90	0.050	1.000	0	90.4	70	130			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		105	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.1	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		103	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

#### 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 Quanitative 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 Limit

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2003860** 

26-Mar-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: mb-51242 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 51242 RunNo: 67487

Prep Date: 3/20/2020 Analysis Date: 3/22/2020 SeqNo: 2329193 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 540 500.0 108 70 130

Sample ID: Ics-51242 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 51242 RunNo: 67487

530

Prep Date: 3/20/2020 Analysis Date: 3/22/2020 SeqNo: 2329194 Units: mg/Kg

500.0

Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 70 22 5.0 25.00 0 86.2 130

107

70

130

#### Qualifiers:

Surr: BFB

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 Quanitative 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 Limit

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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: 2003860 RcptNo: 1 Received By: Isaiah Ortiz 3/17/2020 11:40:00 AM ndogmini bishodani Completed By: Yazmine Garduno 3/18/2020 2:48:50 PM JR 3/19/20 Reviewed By: Chain of Custody 1. Is Chain of Custody sufficiently complete? Yes 🗸 No \_ Not Present 2. How was the sample delivered? Client Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 No 🗌 Were all samples received at a temperature of >0° C to 6.0°C NA 🗌 Yes 🗸 Sample(s) in proper container(s)? No 🗌 Yes 🗸 Sufficient sample volume for indicated test(s)? No  $\square$ Yes 🗸 7. Are samples (except VOA and ONG) properly preserved? No  $\square$ Yes 🗸 8. Was preservative added to bottles? No 🗸 Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA 🗸 Yes  $\square$ No 🗸 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 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? Yes 🗸 Checked by: No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes 🗌 No 🗌 NA 🗸 Person Notified: Date By Whom: eMail Phone Fax Via: In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 0.3 Good

		пше:						
Client: Animas Environmental Services, LLC	☐ Standard	Rush				HALL E	ENVIRONMENTAL	ENTAL
	Project Name:				<	NALYS	ANALYSIS LABORATORY	MATORY
Mailing Address: P.O. Box8	î T	Harvest Midstream Trunk S	o Jain T		> :	ww.hallenvi	www.hallenvironmental.com	
Farmington, NM 87499-0008	Project #:			<u> </u>	4901 Hawkins NE -	IS NE - AIDI		60
Phone #: 505.564.2281					I el. 505-345-3975	-39/5 F	Fax 505-345-4107	
email or Fax#: emcnally@animasenvironmental.com	Project Manager:	der:				Alialy -	Alialysis Request	
QA/QC Package:	T			15)				
Standard   Level 4 (Full Validation)		Elizabeth McNally	IcNally	08)				
:u	Sampler: 😤	Helper 1		(OA		-		
□ NELAC □ Other	On Ice:	Z Yes	□ No	M'C	(0			
EDD (Type)	# of Coolers:				.00			
	Cooler Temp(including CF): 0	(including CF): 0.3	-6 kr \0.3'			00		
Date Time Matrix Sample Name	Container Type and #	Preservative Type	HEAL No.	3) X3T8 3) H9	hloride M 2320	20.1 M 2540		
1000 Sail SB-7 @ 34'	3-4oz jars	cool	100-	200	s			
11/2 920 5.1 58-7019,	2-405	رصا	700-	X	X			
20 1110 Sail SB-80 191	2-402	Cool	-003	×	×			
1 1135 Sil SB-80 29'	204-2	Cool	h0.9-	×	X			
1300 Soil 513-90 1	2-402	1000	- 005	X	X			
1/42 1320 50,11 53-9 @ 29-	2-405	000	2001	X	×			
1415 50:1	2-402	1000	100-	XX	\ \			
11/20 1435 Soil St-10 @ 29'	2-402	Ces/	-004	X X				
2 1540 Soil SB-110 19	2-402	COO	2004	X				
1550 Soil SB-110 241	2-402	100)	010-	X	Y			
	1 <sub>1</sub>							
ime: Relinquished by:	Doctorion Bur							
0	Coceived by.	VIA:	Date Time	Remarks:				
Time: Relinquished by:	Received by:	Via:	Time					



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

May 07, 2020

Eddie Hubbert
Animas Environmental Services
604 Pinon Street
Farmington, NM 87401

TEL: (505) 564-2281 FAX (505) 324-2022

RE: Harvest Midstream Trunk S OrderNo.: 2003897

## Dear Eddie Hubbert:

Hall Environmental Analysis Laboratory received 5 sample(s) on 3/19/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 02, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

#### Lab Order 2003897

Date Reported: 5/7/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Stockpile

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/18/2020 10:04:00 AM

 Lab ID:
 2003897-001
 Matrix: SOIL
 Received Date: 3/19/2020 8:00:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Fluoride	5.8	1.5	mg/Kg	5	3/24/2020 9:19:08 PM	51305
Chloride	180	7.5	mg/Kg	5	3/24/2020 9:19:08 PM	51305
Nitrogen, Nitrite (As N)	ND	1.5	mg/Kg	5	3/24/2020 9:19:08 PM	51305
Bromide	ND	1.5	mg/Kg	5	3/24/2020 9:19:08 PM	51305
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5	3/24/2020 9:19:08 PM	51305
Sulfate	72	7.5	mg/Kg	5	3/24/2020 9:19:08 PM	51305
RESISTIVITY AND EC SOIL					Analyst	: JMT
Conductivity	1420	100	µmhos/c	: 1	3/24/2020 4:31:00 PM	51284
EPA METHOD 6010B: SOIL METALS					Analyst	: ELS
Calcium	6600	130	mg/Kg	5	3/27/2020 12:47:13 PM	51352
Magnesium	5400	130	mg/Kg	5	3/27/2020 8:13:03 AM	51352
Potassium	2400	260	mg/Kg	5	3/27/2020 12:47:13 PM	51352
Sodium	860	130	mg/Kg	5	3/27/2020 12:47:13 PM	51352

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

- 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 Quanitative 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 Limit

## Lab Order **2003897**

Date Reported: 5/7/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Upgradient @ 1'

 Project:
 Harvest Midstream Trunk S
 Collection Date: 3/18/2020 10:12:00 AM

 Lab ID:
 2003897-002
 Matrix: SOIL
 Received Date: 3/19/2020 8:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Fluoride	ND	1.5	mg/Kg	5	3/24/2020 10:08:32 PM	51305
Chloride	2600	150	mg/Kg	100	3/26/2020 12:28:51 AM	51305
Nitrogen, Nitrite (As N)	ND	1.5	mg/Kg	5	3/24/2020 10:08:32 PM	51305
Bromide	13	1.5	mg/Kg	5	3/24/2020 10:08:32 PM	51305
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5	3/24/2020 10:08:32 PM	51305
Sulfate	21	7.5	mg/Kg	5	3/24/2020 10:08:32 PM	51305
RESISTIVITY AND EC SOIL					Analyst:	JMT
Conductivity	4800	100	µmhos/c	1	3/24/2020 4:31:00 PM	51284
EPA METHOD 6010B: SOIL METALS					Analyst:	ELS
Calcium	2900	130	mg/Kg	5	3/27/2020 12:48:44 PM	51352
Magnesium	4200	130	mg/Kg	5	3/27/2020 8:14:36 AM	51352
Potassium	2400	250	mg/Kg	5	3/27/2020 12:48:44 PM	51352
Sodium	2900	130	mg/Kg	5	3/27/2020 12:48:44 PM	51352

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

- 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 Quanitative 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 Limit

## Lab Order 2003897

Date Reported: 5/7/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Upgradient @ 5'

**Project:** Harvest Midstream Trunk S Collection Date: 3/18/2020 10:18:00 AM

**Lab ID:** 2003897-003 **Matrix:** SOIL **Received Date:** 3/19/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Fluoride	3.8	1.5	mg/Kg	5	3/24/2020 10:33:12 PM 51305
Chloride	1300	75	mg/Kg	50	3/26/2020 12:41:12 AM 51305
Nitrogen, Nitrite (As N)	ND	1.5	mg/Kg	5	3/24/2020 10:33:12 PM 51305
Bromide	6.6	1.5	mg/Kg	5	3/24/2020 10:33:12 PM 51305
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5	3/24/2020 10:33:12 PM 51305
Sulfate	48	7.5	mg/Kg	5	3/24/2020 10:33:12 PM 51305
RESISTIVITY AND EC SOIL					Analyst: <b>JMT</b>
Conductivity	3140	100	µmhos/c	1	3/24/2020 4:31:00 PM 51284
EPA METHOD 6010B: SOIL METALS					Analyst: ELS
Calcium	7700	120	mg/Kg	5	3/27/2020 12:50:08 PM 51352
Magnesium	5100	120	mg/Kg	5	3/27/2020 8:16:08 AM 51352
Potassium	2100	240	mg/Kg	5	3/27/2020 12:50:08 PM 51352
Sodium	550	120	mg/Kg	5	3/27/2020 12:50:08 PM 51352

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

- 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 Quanitative 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 Limit

#### Lab Order 2003897

Date Reported: 5/7/2020

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Animas Environmental Services Client Sample ID: Background @ 1'

**Collection Date:** 3/18/2020 10:23:00 AM **Project:** Harvest Midstream Trunk S 2003897-004 Matrix: SOIL Received Date: 3/19/2020 8:00:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed Bate	ch
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>	Γ
Fluoride	ND	1.5	mg/Kg	5	3/24/2020 10:57:54 PM 5130	)5
Chloride	310	30	mg/Kg	20	3/24/2020 11:10:14 PM 5130	05
Nitrogen, Nitrite (As N)	ND	1.5	mg/Kg	5	3/24/2020 10:57:54 PM 5130	)5
Bromide	ND	1.5	mg/Kg	5	3/24/2020 10:57:54 PM 5130	)5
Nitrogen, Nitrate (As N)	1.6	1.5	mg/Kg	5	3/24/2020 10:57:54 PM 5130	)5
Sulfate	ND	7.5	mg/Kg	5	3/24/2020 10:57:54 PM 5130	)5
RESISTIVITY AND EC SOIL					Analyst: <b>JMT</b>	Γ
Conductivity	1550	100	µmhos/c	: 1	3/24/2020 4:31:00 PM 5128	34
EPA METHOD 6010B: SOIL METALS					Analyst: ELS	3
Calcium	3200	130	mg/Kg	5	3/27/2020 12:51:39 PM 5135	52
Magnesium	4000	130	mg/Kg	5	3/27/2020 8:17:41 AM 5135	52
Potassium	1800	260	mg/Kg	5	3/27/2020 12:51:39 PM 5135	52
Sodium	710	130	mg/Kg	5	3/27/2020 12:51:39 PM 5135	52

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

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

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

#### Lab Order 2003897

Date Reported: 5/7/2020

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Client Sample ID: Background @ 3'

**Project:** Harvest Midstream Trunk S **Collection Date:** 3/18/2020 10:34:00 AM

Lab ID: 2003897-005 Matrix: SOIL Received Date: 3/19/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Fluoride	1.7	1.5	mg/Kg	5	3/24/2020 11:47:17 PM 51305
Chloride	340	30	mg/Kg	20	3/24/2020 11:59:37 PM 51305
Nitrogen, Nitrite (As N)	ND	1.5	mg/Kg	5	3/24/2020 11:47:17 PM 51305
Bromide	ND	1.5	mg/Kg	5	3/24/2020 11:47:17 PM 51305
Nitrogen, Nitrate (As N)	ND	1.5	mg/Kg	5	3/24/2020 11:47:17 PM 51305
Sulfate	ND	7.5	mg/Kg	5	3/24/2020 11:47:17 PM 51305
RESISTIVITY AND EC SOIL					Analyst: <b>JMT</b>
Conductivity	1530	100	µmhos/c	1	3/24/2020 4:31:00 PM 51284
EPA METHOD 6010B: SOIL METALS					Analyst: ELS
Calcium	9300	120	mg/Kg	5	3/27/2020 12:57:28 PM 51352
Magnesium	4700	120	mg/Kg	5	3/27/2020 8:19:14 AM 51352
Potassium	2000	250	mg/Kg	5	3/27/2020 12:57:28 PM 51352
Sodium	440	120	mg/Kg	5	3/27/2020 12:57:28 PM 51352

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

- 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 Quanitative 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 Limit

## **ANALYTICAL SUMMARY REPORT**

May 07, 2020

Hall Environmental 4901 Hawkins St NE Ste D Albuquerque, NM 87109-4372

Work Order: B20031868
Project Name: Not Indicated

Energy Laboratories Inc Billings MT received the following 5 samples for Hall Environmental on 3/25/2020 for analysis.

Lab ID	Client Sample ID	Collect Date Re	ceive Date	Matrix	Test
B20031868-001	2003897-001B, Stockpile	03/18/20 10:04	03/25/20	Soil	Alkalinity, Water Extractable pH, 1:X Water Extractable DI Water Soil Extract ASA10-3
B20031868-002	2003897-002B, Upgradient @ 1 Foot	03/18/20 10:12	03/25/20	Soil	Same As Above
B20031868-003	2003897-003B, Upgradient @ 5 Feet	03/18/20 10:18	03/25/20	Soil	Same As Above
B20031868-004	2003897-004B, Background @ 1 Foot	03/18/20 10:23	03/25/20	Soil	Same As Above
B20031868-005	2003897-005B, Background @ 3 Feet	03/18/20 10:34	03/25/20	Soil	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:

Hall Environmental

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

**Revised Date**: 05/07/20 **Report Date**: 04/01/20

Project: Not Indicated

Work Order: B20031868

Report Date: 04/01/20

CASE NARRATIVE

Revised Date: 5/7/2020

**CLIENT:** 

The pH of the sample extract prior to alkalinity titration was was added to all samples per the client's request.

The report has been revised and replaces any previously issued report in its entirety.

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: Not Indicated
Lab ID: B20031868-001

Client Sample ID: 2003897-001B, Stockpile

Revised Date: 05/07/20
Report Date: 04/01/20
Collection Date: 03/48/20 44

Collection Date: 03/18/20 10:04

DateReceived: 03/25/20

Matrix: Soil

Analyses	Result Units	Qualifiers RL	MCL/ QCL Method	Analysis Date / By
WATER EXTRACTABLE CONSTITUE	NTS			
pH, 1:2	8.3 s.u.	0.1	ASA10-3	03/31/20 11:43 / gie
Alkalinity, 1:2	202 mg/kg	4	ASA10-3	03/31/20 11:43 / gie

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

Billings, MT **800.735.4489** • Casper, WY **888.235.0515** Gillette, WY **866.686.7175** • Helena, MT **877.472.0711** 

## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: Not Indicated
Lab ID: B20031868-002

Client Sample ID: 2003897-002B, Upgradient @ 1 Foot

**Revised Date:** 05/07/20 **Report Date:** 04/01/20

Collection Date: 03/18/20 10:12

DateReceived: 03/25/20

Matrix: Soil

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
WATER EXTRACTABLE CONSTITUENTS	;				
pH, 1:2	7.0 s.u.		0.1	ASA10-3	03/31/20 11:59 / gie
Alkalinity, 1:2	23 mg/kg		4	ASA10-3	03/31/20 11:59 / gie

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: Not Indicated
Lab ID: B20031868-003

Client Sample ID: 2003897-003B, Upgradient @ 5 Feet

**Revised Date:** 05/07/20 **Report Date:** 04/01/20

DateReceived: 03/25/20

Collection Date: 03/18/20 10:18

Matrix: Soil

Analyses	Result Units	Qualifiers R	MCL/ QCL Method	Analysis Date / By
WATER EXTRACTABLE CONSTITUE	ENTS			
pH, 1:2	7.6 s.u.	0.	1 ASA10-3	03/31/20 12:05 / gie
Alkalinity, 1:2	56 mg/kg	4	ASA10-3	03/31/20 12:05 / gie

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

Billings, MT **800.735.4489** • Casper, WY **888.235.0515** Gillette, WY **866.686.7175** • Helena, MT **877.472.0711** 

## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: Not Indicated
Lab ID: B20031868-004

Client Sample ID: 2003897-004B, Background @ 1 Foot

Revised Date: 05/07/20
Report Date: 04/01/20

**Collection Date:** 03/18/20 10:23 **DateReceived:** 03/25/20

Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
WATER EXTRACTABLE CONSTITUENTS							
pH, 1:2	7.3	s.u.		0.1		ASA10-3	03/31/20 12:13 / gie
Alkalinity, 1:2	32	mg/kg		4		ASA10-3	03/31/20 12:13 / gie

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level

Billings, MT **800.735.4489** • Casper, WY **888.235.0515** Gillette, WY **866.686.7175** • Helena, MT **877.472.0711** 

## LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Hall Environmental
Project: Not Indicated
Lab ID: B20031868-005

Client Sample ID: 2003897-005B, Background @ 3 Feet

Revised Date: 05/07/20 Report Date: 04/01/20

**Collection Date:** 03/18/20 10:34

DateReceived: 03/25/20 Matrix: Soil

Analyses	Result Units	Qualifiers	RL	MCL/ QCL Method	Analysis Date / By
WATER EXTRACTABLE CONSTITUENT	s				
pH, 1:2	8.0 s.u.		0.1	ASA10-3	03/31/20 12:20 / gie
Alkalinity, 1:2	94 mg/kg		4	ASA10-3	03/31/20 12:20 / gie

Report RL - Analyte Reporting Limit

Definitions: QCL - Quality Control Limit

MCL - Maximum Contaminant Level



Hall Environmental

Client:

Billings, MT 800.735.4489 • Casper, WY 888.235.0515 Gillette, WY 866.686.7175 • Helena, MT 877.472.0711

# **QA/QC Summary Report**

Prepared by Billings, MT Branch

Work Order: B20031868

Revised Date: 05/07/20

Report Date: 04/01/20

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	ASA10-3						naly	tical Run: ORIC	ONVERS#	ASTARPRO_	_200331B
Lab ID:	ICV	Initi	ial Calibrati	on Verification	Standard					03/31/	/20 09:34
pH, 1:2			8.00	s.u.	0.10	100	98	102			
Method:	ASA10-3									Batcl	h: 143215
Lab ID:	LCS-143215	Lab	oratory Co	ntrol Sample			Run: ORIO	NVERSASTARI	PRO_200	03/31/	/20 11:36
Alkalinity,	1:2		252	mg/kg	4.0	107	70	130			
Lab ID:	B20031868-001A DUI	P Sar	mple Duplic	ate			Run: ORIO	NVERSASTARI	PRO_200	03/31/	/20 11:51
Alkalinity,	1:2		202	mg/kg	4.0				0.0	30	
Lab ID:	B20031868-001A DUI	P Sar	mple Duplic	ate			Run: ORIO	NVERSASTARI	PRO_200	03/31/	/20 11:51
pH, 1:2			8.30	s.u.	0.10						

# **Work Order Receipt Checklist**

# Hall Environmental

Login completed by: Leslie S. Cadreau

## B20031868

Date Received: 3/25/2020

- 5				
Reviewed by:	BL2000\darcy		Re	eceived by: qej
Reviewed Date:	3/27/2020		Ca	rrier name: Return-UPS NDA
Shipping container/cooler in	good condition?	Yes √	No 🗌	Not Present
Custody seals intact on all sl	nipping container(s)/cooler(s)?	Yes	No 🗌	Not Present ✓
Custody seals intact on all sa	ample bottles?	Yes	No 🗌	Not Present ✓
Chain of custody present?		Yes ✓	No 🗌	
Chain of custody signed whe	en relinquished and received?	Yes ✓	No 🗌	
Chain of custody agrees with	sample labels?	Yes ✓	No 🗌	
Samples in proper container	/bottle?	Yes ✓	No 🗌	
Sample containers intact?		Yes	No 🔽	
Sufficient sample volume for	indicated test?	Yes ✓	No 🗌	
All samples received within h (Exclude analyses that are couch as pH, DO, Res Cl, Su	onsidered field parameters	Yes ✓	No 🗌	
Temp Blank received in all sl	nipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank tempe	erature:	3.2°C Blue Ice		
Water - VOA vials have zero	headspace?	Yes	No 🗌	No VOA vials submitted ✓
Water - pH acceptable upon	receipt?	Yes 🗌	No 🗌	Not Applicable   ✓

## **Standard Reporting Procedures:**

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

#### **Contact and Corrective Action Comments:**

Sample 2003897-001B was received with a crack in the container. The sample contents were transferred to a new container.

# CHAIN OF CUSTODY RECORD PAGE 1

**ENVIRONMENTAL** LABORATORY ANALYSIS

Albuquerque NM 87109 TEL 505-345-3975 FAX 505-345-4107

Hall Environmental Analysis Laboratory

1901 Hawkins VE

Website www hallenvironmental com

6909-				MENTS	32033808				ī
FAX (406) 252-6069	EMAIL			ANALYTICAL COMMENTS	(82)		;		i
(800) 735-4489			; # CONT.	AINERS	1 Alkalınıty	1 Alkalinity	1 Alkalinity	1 Akalınıty	1 Alkalınıty
PHONE	* ACCOUNT *			COLLECTION	3/18/2020 10:04:00 AM 1 Alkalinity	3/18/2020 10:12:00 AM 1 Alkalinity	3/18/2020 10 18:00 AM 1 Alkalinity	3/18/2020 10:23:00 AM 1 Alkalinity	3/18/2020 10:34:00 AM 1 Alkalinity
ries				MATRIX	Sol	Sol	<u>\</u>	Soil	Soil
Energy Laboratories		: :		BOTTLE TYPE	40ZGU	40ZGU	40ZGU	40ZGU	40ZGU
Bil-Energy COMPANY	1120 South 27th Street	CITY STATE, ZIP Billings, MT 59107		IPLE CLIENT SAMPLE ID	2003897-001B Stockpile	2003897-002B Upgradient @ 1'	2003897-003B Upgradient @ 5'	2003897-004B Background @ 1'	2003897-005B Background @ 3'
SUB CONTRATOR BIL-Energy	ADDRESS	CITY STATE ZIP		ITEM SAMPLE	1 2003897	2 2003897	3 2003897	4 2003897	5 2003897

SPECIAL INSTRUCTIONS / COMMENTS.

Please include the LAB ID and the CLIENT SAMPLE ID on all final reports Please e-mail results to lab/a/hallenvironmental com Please return all coolers and blue ice. Thank you

	1											
Relinquished By		Date 3/19/2820	Time 4-02 PM	Received By	иВу		Date	Тлпе	REF	REPORT TRANSMITTAL DESIRED	AL DESIRED	
Relinquished By	)	Date	Time	Received By	Z B		Dite		HARDCOPY (extra cost) FAX	FAX	EMAIL	ONI.INE
Reinomshed By		d	Time	6	Š	1.00		7		FOR LAB USE ONLY	۸ IV	
		<i>(</i>		<b>§</b>		DND S	四四	CNO 3 FEE BOT. 50	Temp of samples	Ç	**C Attempt to Cool**  **Tempt to Cool**  **Te	
TAT	`.	Standard	RI SH	HS	Next BD	2nd BD	3rd BD	Đ				
	1								Comments			

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2003897** 

07-May-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: MB-51305	SampT	ype: <b>m</b> k	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PBS	Batch	n ID: <b>51</b> :	305	F	RunNo: <b>6</b>	7533				
Prep Date: 3/24/2020	Analysis D	ate: 3/	24/2020	5	SeqNo: 2	331634	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.30								
Chloride	ND	1.5								
Nitrogen, Nitrite (As N)	ND	0.30								
Bromide	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								
Sulfate	ND	1.5								

Sample ID: LCS-51305	SampT	ype: Ics	3	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch	n ID: <b>51</b> :	305	F	RunNo: 6	7533				
Prep Date: 3/24/2020	Analysis D	ate: 3/	24/2020	S	SeqNo: 2:	331635	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.6	0.30	1.500	0	108	90	110			
Chloride	14	1.5	15.00	0	93.9	90	110			
Nitrogen, Nitrite (As N)	2.8	0.30	3.000	0	94.4	90	110			
Bromide	7.2	0.30	7.500	0	96.3	90	110			
Nitrogen, Nitrate (As N)	7.3	0.30	7.500	0	96.7	90	110			
Sulfate	29	1.5	30.00	0	95.6	90	110			

Sample ID: 2003897-001AMS	SampT	ype: <b>ms</b>	<b>5</b>	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: Stockpile	Batch	ID: <b>51</b> :	305	F	RunNo: 6	7533				
Prep Date: 3/24/2020	Analysis D	ate: 3/	24/2020	S	SeqNo: 2	331646	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	6.3	1.5	1.500	5.836	34.1	15	125			
Nitrogen, Nitrite (As N)	2.8	1.5	3.000	0	92.2	80.6	104			
Bromide	7.8	1.5	7.500	0	105	88.2	107			
Nitrogen, Nitrate (As N)	7.7	1.5	7.500	0	102	76	118			

Sample ID: 2003897-001AMSD	SampT	ype: <b>ms</b>	sd	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: Stockpile	Batch	n ID: <b>51</b> :	305	F	RunNo: 6	7533				
Prep Date: 3/24/2020	Analysis D	ate: 3/	24/2020	S	SeqNo: 2	331647	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	6.2	1.5	1.500	5.836	23.5	15	125	2.52	20	
Nitrogen, Nitrite (As N)	2.8	1.5	3.000	0	92.8	80.6	104	0.732	20	
Bromide	7.8	1.5	7.500	0	104	88.2	107	0.698	20	
Nitrogen, Nitrate (As N)	7.7	1.5	7.500	0	102	76	118	0.0852	20	

#### 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 Quanitative 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 Limit

Page 6 of 8

**Client:** 

# Hall Environmental Analysis Laboratory, Inc.

Animas Environmental Services

2500

2600

50

25

2500

2500

WO#: **2003897** 

07-May-20

	rvest Midstream Trunk S			
Sample ID: LCS-51352 Client ID: LCSS Prep Date: 3/26/2020	Batch ID: <b>51352</b> Analysis Date: <b>3/27/2020</b>	TestCode: <b>EPA Method</b> RunNo: <b>67628</b> SeqNo: <b>2334733</b>	Units: mg/Kg	
Analyte Calcium Magnesium	Result         PQL         SPK value           2500         25         2500           2700         25         2500	SPK Ref Val         %REC         LowLimit           0         102         80           0         107         80	HighLimit %RPD 120 120	RPDLimit Qual
Sample ID: MB-51352 Client ID: PBS Prep Date: 3/26/2020 Analyte Calcium Magnesium	,	TestCode: <b>EPA Method</b> RunNo: <b>67628</b> SeqNo: <b>2334735</b> SPK Ref Val %REC LowLimit	Units: mg/Kg HighLimit %RPD	RPDLimit Qual
Sample ID: MB-51352 Client ID: PBS Prep Date: 3/26/2020 Analyte Potassium Sodium	•	TestCode: <b>EPA Method</b> RunNo: <b>67628</b> SeqNo: <b>2334788</b> SPK Ref Val %REC LowLimit	6010B: Soil Metals  Units: mg/Kg  HighLimit %RPD	RPDLimit Qual
Sample ID: LCS-51352 Client ID: LCSS Prep Date: 3/26/2020 Analyte	Batch ID: <b>51352</b> Analysis Date: <b>3/27/2020</b>	TestCode: EPA Method RunNo: 67628 SeqNo: 2334789 SPK Ref Val %REC LowLimit	6010B: Soil Metals  Units: mg/Kg  HighLimit %RPD	RPDLimit Qual

0

0

98.6

103

#### Qualifiers:

Potassium

Sodium

- 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

120

120

80

80

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

В

# Hall Environmental Analysis Laboratory, Inc.

4530

WO#: **2003897** 

20

5.75

07-May-20

Client: Animas Environmental Services
Project: Harvest Midstream Trunk S

Sample ID: 2003897-002ADUP SampType: DUP TestCode: Resistivity and eC Soil

Client ID: Upgradient @ 1' Batch ID: 51284 RunNo: 67543

100

Prep Date: 3/24/2020 Analysis Date: 3/24/2020 SeqNo: 2331433 Units: μmhos/cm

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Conductivity

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 Quanitative 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 Limit

Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name: Animas Environmental Work Order Number: 2003897 RcptNo: 1 Received By: Yazmine Garduno 3/19/2020 8:00:00 AM Completed By: Juan Rojas 3/19/2020 11:45:05 AM Reviewed By: JR 3/19/20 Chain of Custody 1. Is Chain of Custody sufficiently 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 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 5. Sample(s) in proper container(s)? No 🗌 Yes 🗸 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? No 🗸 Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA 🗸 Yes 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes V No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 2.0 Good

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#### for a sustainable future

## Assembly instructions

### Solar Vapor Extraction System

By Sustainable Technologies



1800 Orion St. Ste. 101 Alameda, CA 945501 (510) 523-1122 www.sustech.cc



#### **VARISUN**

The Solar pump skid can be forklifted from the side and the back.









## **Removing shipping struts**

Remove loose pieces of steel strut (you will need them later). Remove the struts that hold the front and back wings for shipping







#### **VARISUN**

Now you are ready to mount the braces on the back wing and lift the wings.

The braces will hold the wings up.

#### **Front Wing:**

Release the 3/8" bolts that are holding the wing for transport. Push the wing up until it is on the same plane as the other panels. Bolt down the brace to the front legs just above the cross members.

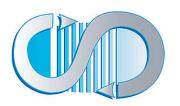
#### **Back Wing:**

## CAUTION!! BE CAREFUL RISK OF CRASHING

- Use the provided long struts(104") for the back wing braces.
- The braces are mounted to the "L" brackets, on the back of the wing; using (2)- 3/8" SS bolts an nuts each.

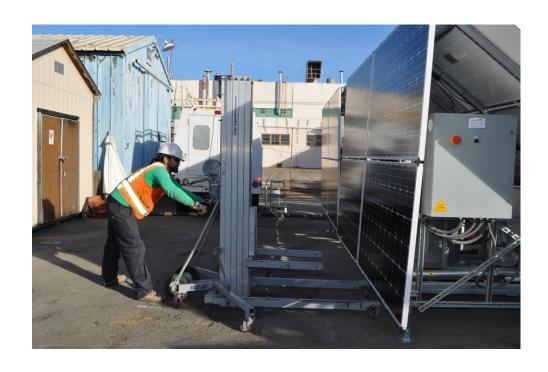


Front Wing is up



#### Solar

- Use a Material Lift or Forklift to lift back wing in place.
- Place forks under wing. Lift and move back to keep lift from hitting the solar panels.
- Lift very slowly watching the forks.





When the wing is high enough; attach the long braces to the back of wing( 104" long).( picture below)
Bolt to the wings using (2)3/8"x1"
SS bolts and cone nuts each. Always use a split washer and a flat washer.









Back wing lifted; braces hanging



Braces in position

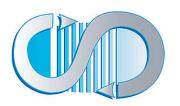


Wing Brace bolting detail





Install the 27" horizontal supports to the back wing braces; as shown in the picture



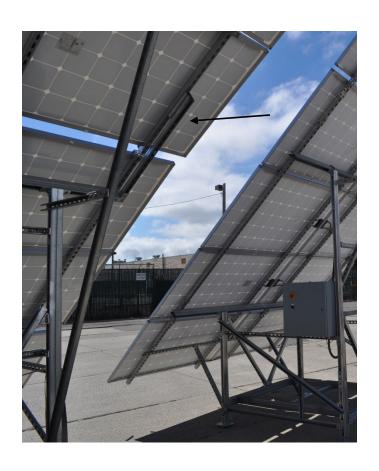
#### **Control Panels**

Lock the back wing hinges using 2 remaining braces. (that were bolted to the back Post for transport).

Use 3/8" x 1" bolts with unitstrut nuts.

FACE TO THE SOUTH!

We are done with the rack.



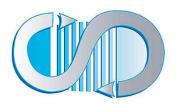


#### **Electrical Connections**

#### **Solar Electrical Connections:**

DC Connections: For systems with more than one POD

- 1-Attached VDC Liquid Tight Conduit to Pod #2 using one hole strap existing on the rail 2-Connect the MC-4 connectors, Terminate Ground wire in ground lug in Pod #2.
- 3- Install PV auxiliary Ground bar close to Solar control panel. Connect AWG # 8 Green or bare to the ground bar in the control panel ground bar.



# Sustainable Technologies Start UP

#### **Vapor Extraction System Start up:**

- 1. The ON OFF switch should be in the OFF position.
- 2. Push PV fuses IN\_ S-1 & S-2. ( if they are not already)
- 3- Turn DC disconnect ON inside the panel. The controllers should turn ON.

The LDC displays will blink.

- 3. Pull out E STOP switch.
- 4. Turn Blower switch to AUTO.

Turn Pump HoA to AUTO( if equipped)

the Blower should Run.

Pushing the Data bottom on the controller will show the running Amps, Voltage, frequency and Power The VariSun controls will run the blower as fast as there is power available.

Frequency: 10 to 60 Hz.

AMPs: 4.6 HP Blower FLA 12 amps

Volts: 20 to 230 VAC



#### for a sustainable future





Call if you have any questions: 510-523-1122

1800 Orion St Suite 101 Alameda, CA 94501 510 523-1122 phone / 510 523-1123 fax •License #772329 A, C-10, HAZ, HIC, 8(a), MBE, SBE, Thank you