District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
1. Operator: Hilcorp Energy Company OGRID #: 372171
Address: PO BOX 4700, Farmington, NM 87499
Facility or well name: Scott 9
API Number: 30-045-21818 OCD Permit Number:
U/L or Otr/Otr C Section 17 Township 31N Range 10W County: San Juan
Center of Proposed Design: Latitude 36.90335 eN Longitude -107.90961 eW NAD: $\Box 1927 \boxtimes 1983$
Surface Owner: X Federal X State Private Tribal Trust or Indian Allotment
Pit: Subsection F, G or J of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x D
3. Below-grade tank: Subsection L of 19 15 17 11 NMAC
Volume: 120 bbl Type of fluid: Produced Water
Tank Construction material: Metal
\square Secondary containment with leak detection \square Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
\square Visible sidewalls and liner \square Visible sidewalls only \square Other
Liner type: Thickness mil HDPE PVC Other Unspecified
Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)
Four foot height, four strands of barbed wire evenly spaced between one and four feet
Alternate. Please specify

Oil Conservation Division

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other_

Monthly inspections (If netting or screening is not physically feasible)

Signs: Subsection C of 19.15.17.11 NMAC

12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

7

9

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.

General siting	
<u>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</u> - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	□ Yes □ No ⊠ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ⊠ NA
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes No
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
 Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🛛 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No

 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes No								
Temporary Pit Non-low chloride drilling fluid									
 Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No								
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 									
 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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 									
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No								
Permanent Pit or Multi-Well Fluid Management Pit									
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).									
- Topographic map; Visual inspection (certification) of the proposed site	Yes No								
 Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 									
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application									
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No								
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No								
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.</i> Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	NMAC <i>cuments are</i> 9 NMAC 15.17.9 NMAC								
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.	<i>cuments are</i> .15.17.9 NMAC								

Permanent Pits Permit Application Checklist: Suff Instructions: Each of the following items must be at attached. Hydrogeologic Report - based upon the required Siting Criteria Compliance Demonstrations - bas Climatological Factors Assessment Certified Engineering Design Plans - based upon Dike Protection and Structural Integrity Design Leak Detection Design - based upon the approp Liner Specifications and Compatibility Assessm Quality Control/Quality Assurance Construction Operating and Maintenance Plan - based upon to Freeboard and Overtopping Prevention Plan - b Nuisance or Hazardous Odors, including H2S, F Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate required	section B of 19.15.17.9 NMAC tached to the application. Please indicate, by a check mark in the box ments of Paragraph (1) of Subsection B of 19.15.17.9 NMAC sed upon the appropriate requirements of 19.15.17.10 NMAC - based upon the appropriate requirements of 19.15.17.11 NMAC - based upon the appropriate requirements of 19.15.17.11 NMAC riate requirements of 19.15.17.11 NMAC ment - based upon the appropriate requirements of 19.15.17.11 NMAC ment - based upon the appropriate requirements of 19.15.17.11 NMAC and Installation Plan he appropriate requirements of 19.15.17.12 NMAC ased upon the appropriate requirements of 19.15.17.11 NMAC revention Plan	x, that the documents are C
^{13.} Proposed Closure: 19.15.17.13 NMAC		
Instructions: Please complete the applicable boxes,	Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency	Cavitation 🗌 P&A 🗌 Permanent Pit 🗌 Below-grade Tank 🗌 M	ulti-well Fluid Management Pit
Proposed Closure Method: X Waste Excavation and	Removal	
Waste Removal (Clo	sed-loop systems only)	
In-place B	Burial On-site Trench Burial	
Alternative Closure M	fethod	
Waste Excavation and Removal Closure Plan Chee closure plan. Please indicate, by a check mark in the Protocols and Procedures - based upon the appr Confirmation Sampling Plan (if applicable) - base Disposal Facility Name and Permit Number (for Soil Backfill and Cover Design Specifications - Re-vegetation Plan - based upon the appropriate Site Reclamation Plan - based upon the appropriate	EXAMPLE (19.15.17.13 NMAC) Instructions: Each of the following then e box, that the documents are attached. opriate requirements of 19.15.17.13 NMAC used upon the appropriate requirements of Subsection C of 19.15.17.13 r liquids, drilling fluids and drill cuttings) based upon the appropriate requirements of Subsection H of 19.15.17 e requirements of Subsection H of 19.15.17.13 NMAC iate requirements of Subsection H of 19.15.17.13 NMAC	NMAC .13 NMAC
15.		
Siting Criteria (regarding on-site closure methods Instructions: Each siting criteria requires a demons provided below. Requests regarding changes to certa 19.15.17.10 NMAC for guidance.	only): 19.15.17.10 NMAC tration of compliance in the closure plan. Recommendations of acce ain siting criteria require justifications and/or demonstrations of equi	ptable source material are ivalency. Please refer to
Ground water is less than 25 feet below the bottom of - NM Office of the State Engineer - iWATERS	the buried waste. database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Ground water is between 25-50 feet below the bottom - NM Office of the State Engineer - iWATERS	of the buried waste database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom - NM Office of the State Engineer - iWATERS	of the buried waste. database search; USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Within 100 feet of a continuously flowing watercours lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certifica	e, or 200 feet of any other significant watercourse, lakebed, sinkhole, o tion) of the proposed site	r playa 🔲 Yes 🗌 No
Within 300 feet from a permanent residence, school, h - Visual inspection (certification) of the propos	ospital, institution, or church in existence at the time of initial applicated site; Aerial photo; Satellite image	ion. 🗌 Yes 🗌 No
Within 300 horizontal feet of a private, domestic fresh at the time of initial application. - NM Office of the State Engineer - iWATERS	water well or spring used for domestic or stock watering purposes, in database; Visual inspection (certification) of the proposed site	existence 🗌 Yes 🗌 No
Written confirmation or verification from the municip	ality; Written approval obtained from the municipality	Yes No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Top	pographic map; Visual inspection (certification) of the proposed site	
Within incorporated municipal hour davias or within a	defined municipal freeh water well field asward under a municipal and	
E within incorporated municipal boundaries or within a	Oil Concernation Division	
rorm C-144	On Conservation Division	rage 4 01 0

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.	
- written confirmation or verification from the municipality; written approval obtained from the municipality	🗌 Yes 🗌 No
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society: Topographic map	
Within a 100-year floodplain	
- FEMA map	Yes No
 16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.1 Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 	n. Please indicate, 1 NMAC 5.17.11 NMAC ot be achieved)
17. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belie	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: Permit Application (including elosure plan) OClosure Plan (only) OCD Conditions (see attachment) OCD Representative Signature:	21207
19.	
^{19.} <u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting a The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not a section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this
 19. <u>Closure Report (required within 60 days of closure completion)</u>: 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting a The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not a section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: December 13, 2016 	the closure report. complete this 6
19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting to The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not closure of the form until an approved closure plan has been obtained and the closure activities have been completed. 20. Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	the closure report. complete this <u>6</u> op systems only)

Oil Conservation Division

Operator Closure Certification:

22.

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print) Ayanda Ray Title: Operations/Regulatory Technic	ian
Signature: Smoendar al	Date: 9-38-17
e-mail address: mray@hilcorp.com Telephone: (505) 324-5122	

Hilcorp Energy Company San Juan Basin Below Grade Tank Closure Report

Lease Name: Scott 9 API No.: 30-045-21818

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

 HILCORP shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, HILCORP will file the C144 Closure Report as required.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

 HILCORP shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

3. HILCORP will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then HILCORP shall remove the equipment, unless the equipment is required for some other purpose.

All on-site equipment associated with the below-grade tank was removed.

5. HILCORP will test the soils beneath the below-grade tank to determine whether a release has occurred. HILCORP shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. COPC shall notify the division of its results on form C-141.

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
ТРН	EPA SW-846 418.1	100
Chlorides	EPA 300.0	250

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

6. If HILCORP or the division determines that a release has occurred, then HILCORP shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then HILCORP shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and revegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
 - i. Operator's name
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

Notification is not attached.

9. The surface owner shall be notified of HILCORP's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner was not sent.

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. HILCORP shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will be used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.

10/5/2017

Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation (See Report)
 - Re-vegetation application rates and seeding techniques (See Report)
 - Photo documentation of the site reclamation (Included as an attachment)
 - Confirmation Sampling Results (Included as an attachment)
 - Proof of closure notice (Included as an attachment)

10/5/2017

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

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

			Rele	ease Notific	ation	and Co	orrective A	ction				
						OPERAT	FOR		🗌 Initia	al Report	\boxtimes	Final Repor
Name of Co	mpany H	ilcorp Ener	gy Comp	oany	(Contact Je	nnifer Deal					
Address 9a	CR 5793	, Farmingto	n, NM 8'	7401	1	Telephone No. (505) 599-3400						
Facility Nan	ne: Scott	9			I	Facility Type: Gas well						
Surface Own	ner BLM			Mineral O	wner F	ed			API No	.30045218	318	
				LOCA	TION	OF REI	LEASE					
Unit Letter C	Section 17	Township 31	Range 10	Feet from the 830	North/	South Line	Feet from the 1500	East/W	/est Line /est	County San Juan		
				Latitude <u>36</u>	.90331	Longitud	e <u>-107.90937</u>					
				NAT	URE	OF REL	EASE					
Type of Relea	ase Hyd	rocarbon				Volume of	Release Unkn	nown	Volume I	Recovered	1801	cubic yards
Source of Release BGT						Date and H	lour of Occurrenc	e	Date and	Hour of Dis	scovery	
Was Immedia	ate Notice (Given?	Yes 🗌] No 🛛 Not Re	quired	If YES, To	Whom?					
By Whom?						Date and H	Iour					
Was a Watercourse Reached?						If YES, Vo	blume Impacting t	he Wate	rcourse.			
Describe Cau Historic cont	ese of Problemaniation	em and Reme was encounter	dial Actio ed after so	n Taken.* oil sample was tak	en on 11	1-10-16						
Describe Are Delineation of Excavation w regulatory sta	a Affected of the BGT yas 32' x 40 undards – no	and Cleanup A area on 12-13)' x 38' Deep. o further actio	Action Tal -16 indica Release a n required	ken.* ates a 22'x 22' x 9' assessment was con a. The soil samplir	' area th mpleted ng repor	at will be exa by third-part t is attached	cavated to at or be by environmental a for review.	low acti	on levels. ytical resu	lts were bel	ow the I	NMOCD
I hereby certi regulations al public health should their c or the environ federal, state,	fy that the i l operators or the envi operations h ment. In a or local law	information gi are required to ronment. The have failed to a addition, NMC	ven above o report an acceptance adequately OCD accept adations.	e is true and compl nd/or file certain re- ce of a C-141 repo v investigate and re- ptance of a C-141 r	ete to the elease no rt by the emediate report do	the best of my otifications a NMOCD m e contaminations not reliev	knowledge and u nd perform correc arked as "Final R on that pose a thre e the operator of n	nderstan tive acti- eport" de eat to gro responsil	d that purs ons for rel oes not rel ound water bility for c	suant to NM eases which ieve the ope r, surface way ompliance w	OCD read of the second	ules and ndanger f liability man health y other
Signature:	L	Jennifer Deal	-				OIL CONS	SERV	ATION	DIVISI	<u>DN</u>	
Printed Name	e: Jennifer	Deal			1	Approved by	Environmental S	pecialist				
Title: Envir	onmental S	Specialist			1	Approval Da	te:	H	Expiration	Date:		
E-mail Addre	ess: jdeal@	hilcorp.com	05 204 5	129		Conditions of	f Approval:			Attached	i 🗆	
Attach Addi	tional She	ets If Necess	ary	128								

Animas Environmental Services, LLC



July 25, 2017

Robert Spearman ConocoPhillips San Juan Business Unit (505) 320-3045

Via electronic mail to: SJBUE-Team@ConocoPhillips.com

RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report Scott 9 San Juan County, New Mexico

Dear Mr. Spearman:

On November 10 and December 13, 2016, and April 26 through July 17, 2017, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, a release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (COP) Scott 9 located in San Juan County, New Mexico.

At the request of the New Mexico Oil Conservation Division (NMOCD), resampling of the location below the former BGT was required to meet all required closure criteria listed in New Mexico Administrative Code (NMAC) 19.15.17.13E. After the below grade tank sampling, an initial release assessment was completed on December 13, 2016, and the final excavation was completed by COP contractors prior to AES' arrival on location on July 17, 2017.

1.0 Site Information

1.1 Location

Site Name – Scott 9 Legal Description – NE¼ NW¼, Sect. 17, T31N, R10W San Juan County, New Mexico Well Latitude/Longitude – N36.90331 and W107.90937 BGT Latitude/Longitude – N36.90335 and W107.90961 Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, 2016 and 2017

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

> 1911 Main, Ste 206 Durango, CO 81301 970-403-3084

www.animasenvironmental.com

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1.2 NMOCD Ranking

Prior to site work, NMOCD and New Mexico Office of the State Engineer (NMOSE) databases were reviewed, and a cathodic protection report dated May 1991 for the location, reported the depth to groundwater at 310 feet below ground surface (bgs). Additional review of site criteria was conducted, and the risk ranking for the site is **10**. However, at the request of the NMOCD, the most stringent sample result criteria were applied to this BGT. Note these criteria normally apply to sites with a depth to groundwater of 0 to 50 feet.

1.3 Assessment

AES was initially contacted by Robert Spearman, COP representative, on November 2, 2016, and on November 10, 2016, Corwin Lameman and Sam Glasses of AES traveled to the location. Soil sampling consisted of collection of one soil sample (BGT S-1) from the center of the former BGT footprint at a depth of eight feet. Soil sample results were above the action levels, and a release was confirmed.

On December 13, 2016, AES personnel returned to the location to complete the release assessment field work. The assessment included collection and field sampling of 14 soil samples from 11 soil borings (SB-1 through SB-11). Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On April 26, May 10, and July 17, 2017, AES returned to the location to collect confirmation soil samples of the excavation extents. The field sampling activities included collection of nine confirmation soil samples (SC-1 through SC-9) from the walls and base of the excavation. The area of the final excavation measured approximately 32 feet by 40 feet by 38 feet in depth. Note that the depth of the excavation was limited due to the reach of the excavator. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 14 soil samples (SB-1 through SB-11) and 9 composite samples (SC-1 through SC-9) were collected during the assessment and excavation clearance. All samples were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbons (TPH). Composite samples collected during the excavation clearance were submitted for confirmation laboratory analysis.

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2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

The soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto sample chain of custody records. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene and xylene (BTEX) per USEPA Method 8021B; and
- TPH as gasoline range, diesel range and motor oil range organics (GRO/DRO/MRO) per USEPA Method 8015.

In addition, soil sample BGT S-1 was laboratory analyzed for:

- TPH per USEPA Method 418.1; and
- Chlorides per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field sampling results and laboratory analytical results are summarized in Tables 1 and 2, respectively, and on Figures 3 and 4. The AES Field Sampling Reports and laboratory analytical reports are attached.

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Sample ID	Date Sampled	Sample Depth (ft bas)	VOCs via OVM (ppm)	Field TPH (ma/ka)
NMOCD Actio	n Level (Strictest)	09-7	*	100*
		6.5	4,515	8,660
SB-1	12/13/16 -	8.5	4,618	11,400
SB-2	12/13/16	8.5	3.9	<20.0
SB-3	12/13/16	9	6.8	25.9
CD 4	12/12/11	7	3,158	2,770
SB-4	12/13/16 -	9	4,231	47,800
SB-5	12/13/16	8	4,116	22,300
SB-6	12/13/16	8.75	8.1	<20.0
CD 7	12/12/10	7.5	3,166	NA
SB-7	12/13/16 -	8.5	3,901	7,640
SB-8	12/13/16	8	5.2	<20.0
SB-9	12/13/16	8.5	0.5	<20.0
SB-10	12/13/16	8.5	0.4	<20.0
SB-11	12/13/16	8	0.3	<20.0
SC-1	4/26/17	0 to 15	12.2	41.3
SC-2	4/26/17	0 to 15	21.9	23.5
SC-3	4/26/17	0 to 15	17.5	<20.0
SC-4	4/26/17	0 to 15	2,373	1,440
SC-5	7/17/17	38	5.0	69.1
SC-6	5/10/17	15 to 35	1,314	128
SC-7	5/10/17	15 to 30	107	31.4
SC-8	7/17/17	30 to 38	1.7	40.4
SC-9	7/17/17	30 to 38	1,045	60.8

Table 1. Soil Field VOCs and TPH Results Scott 9 Release Assessment and Final Excavation December 2016 through July 2017

NA – not analyzed

*Action level determined by NMAC 19.15.17.13 Table 1.

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November 2016 and July 2017									
Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (418.1) (mg/kg)	TPH GRO (8015) (mg/kg)	TPH DRO (8015) (mg/kg)	TPH MRO (8015) (mg/kg)	Chlorides (mg/kg)
NMOCD A	ction Level (S	trictest)*	10*	50*	100*		100*		600*
BGT S-1	11/10/16	8	<1.2	113	10,000	4,300	2,500	<460	120
SC-1	4/26/17	0 to 15	< 0.016	<0.147	NA	4.9	23	<47	NA
SC-2	4/26/17	0 to 15	< 0.016	< 0.144	NA	<3.2	<9.3	<46	NA
SC-3	4/26/17	0 to 15	< 0.014	<0.125	NA	<2.8	13	<48	NA
SC-5	7/17/17	38	<0.019	<0.171	NA	<3.8	<9.9	<49	NA
SC-6	5/10/17	15 to 35	<0.078	1.72	NA	140	120	<47	NA
SC-7	5/10/17	15 to 30	< 0.014	0.246	NA	18	<9.7	<49	NA
SC-8	7/17/17	30 to 38	<0.082	<0.732	NA	<16	<9.6	<48	NA
SC-9	7/17/17	30 to 38	< 0.092	1.98	NA	67	25	<49	NA

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides Scott 9 BGT Closure and Final Excavation

NA - not analyzed

*Action level determined by NMAC 19.15.17.13 Table 1.

3.0 Conclusions and Recommendations

3.1 BGT Closure

On November 10, 2016, AES conducted BGT closure sampling at the location. NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13 Table 1, and for this location the most stringent action levels were utilized per a request from NMOCD. BGT closure sampling results were above the NMOCD action levels of 50 mg/kg for total BTEX and 100 mg/kg for TPH, with BGT S-1 reporting laboratory concentrations of 113 mg/kg total BTEX, 10,000 mg/kg TPH (418.1), and 6,800 mg/kg TPH (as GRO/DRO/MRO), respectively. Chloride concentrations in BGT S-1 were reported below the NMOCD action level of 600 mg/kg, with 120 mg/kg. Based on laboratory concentrations, a release was confirmed at the Scott 9.

3.2 Release Assessment

On December 13, 2016, AES completed a release assessment at the location. Release assessment field sampling results above the NMOCD action level of 100 mg/kg TPH were reported in SB-1, SB-4, SB-5, and SB-7. The highest field TPH concentration was

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reported in SB-4, with a concentration of 47,800 mg/kg TPH. Excavation of the release area was recommended.

3.3 Excavation Clearance

On April 26, May 10 and July 17, 2017, clearances of various portions of the excavation were completed. Field sampling results of the excavation extents showed field TPH concentrations were below the strictest NMOCD action level of 100 mg/kg for all samples, except SC-4 and SC-6. Note that SC-4 (which was sampled at 0 to 15 ft and was located in close proximity to the wellhead) had field TPH concentrations of 1,440 mg/kg; the excavation was subsequently extended and deepened in this area, with SC-7 below the NMOCD threshold for field TPH at 31.4 mg/kg. SC-6 slightly exceeded the strictest NMOCD threshold for field TPH, with 128 mg/kg. Laboratory analytical results showed TPH concentrations (as GRO/DRO/MRO) also exceeded the strictest NMOCD action levels in SC-6, with concentrations of GRO (140 mg/kg) and DRO (120 mg/kg), while MRO, which is less mobile in the subsurface, was reported at <47 mg/kg. Laboratory analytical results from all samples reported benzene and total BTEX concentrations as below NMOCD action levels.

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Scott 9, benzene, total BTEX, and TPH concentrations were below the strictest NMOCD action levels for the final sidewalls and base of the excavation, except for TPH at SC-6 (east wall) with 140 mg/kg GRO and 120 mg/kg DRO. However, if the risk ranking of 10 is applied, the action level for TPH is 1,000 mg/kg, and SC-6 TPH concentrations are well below risk-based action levels. If a variance is granted by NMOCD for SC-6, then no further work is recommended.

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

Sincerely,

Davil 9 Reve

David J. Reese Environmental Scientist

Elizabeth V MeNdly

Elizabeth McNally, P.E.

Robert Spearman Scott 9 BGT Closure, Release Assessment, and Final Excavation Report July 25, 2017 Page 7 of 7

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, 2016 and 2017
- Figure 3. BGT Closure and Release Assessment Sample Locations and Results, November and December 2016
- Figure 4. Excavation Sample Locations and Results, April through July 2017
- AES Field Sampling Reports 121316, 042617, 051017, 071717
- Hall Laboratory Analytical Reports 1611633, 1704C07, 1705588, 1707842

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	Field Samalina Results	FIGURE 3
	Depth PID- TPH	BELOW GRADE TANK CLOSURE AND
	Sample ID Date (ft) (ppm) (mg/kg)	RELEASE ASSESSMENT SAMPLE
	NMOCD ACTION LEVEL 100 6.5 4.515 8.660	LOCATIONS AND RESULTS NOVEMBER AND DECEMBER 2016
	SB-1 12/13/16 8.5 4,618 11,400	ConocoPhillips
	SB-2 12/13/16 8.5 3.9 <20.0 SB-3 12/13/16 9 6.8 25.9	NEX NWX, SECTION 17, T31N, R10W
	SB-4 12/13/16 7 3,158 2,770	N36.90331, W107.90937
	SB-5 12/13/16 8 4,116 22,300	
	SB-6 12/13/16 8.75 8.1 <20.0	animas
	SB-7 12/13/16 8.5 3,901 7,640	environmental
	SB-8 12/13/16 8 5.2 <20.0 SB-9 12/13/16 8.5 0.5 <20.0	AES A services
	SB-10 12/13/16 8.5 0.4 <20.0	Farmington, NM • Durango, CO animasenvironmental.com
	SB-11 12/13/16 8 0.3 <20.0 NA - NOT ANALYZED	
SB-10 •		DRAWN BY: DATE DRAWN:
● S8-6	Laboratory Analytical Results	REVISIONS BY: DATE REVISED:
	Sample ID Depth Benzene Total TPH TPH - TPH - TPH - Chlorides	C. Lameman July 25, 2017
	Sumple ID Date (ft) (mg/kg) Date 438.1 GRO DRO MRO (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg) (mg/kg)	CHECKED BY: DATE CHECKED:
SB-9 SB-7	NMOCD ACTION LEVEL 10 50 100 100 600 BGT S-1 11/10/16 8 <1.2	D. Reese July 25, 2017
SB-1	SAMPLE WAS ANALYZED PER USEPA METHOD 8021B, 418.1, 8015D AND 300.0	E. McNally July 25, 2017
<i>Я</i> ● 58-8		LEGEND
	R	SOIL BORING LOCATIONS
SCOTT 9 WELLHEAD		SECONDARY CONTAINMENT BERM
BGT S-1 N36.90335, W107.90961		
\$B-5	· * ·	
	HUDSON 5M WELLHEAD	
WELLHEAD METAL GUARDS		
• SB-2	WELLHEAD METAL GUARDS	
FORMER SEPARATOR-		
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FORMER METER HOUSE		
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Field Notes

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Scott 9

Date: 12/13/2016

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 6.5'	12/13/2016	11:58	4,515	8,660	12:30	200	10	CL
SB-1 @ 8.5'	12/13/2016	12:11	4,618	11,400	12:41	200	10	CL
SB-2 @ 8.5'	12/13/2016	12:48	3.9	<20.0	13:25	20.0	1	CL
SB-3 @ 9'	12/13/2016	11:26	6.8	25.9	11:52	20.0	1	CL
SB-4 @ 7'	12/13/2016	13:45	3,158	2,770	14:02	20.0	1	CL
SB-4 @ 9'	12/13/2016	13:50	4,231	47,800	14:24	2000	100	CL
SB-5 @ 8'	12/13/2016	10:38	4,116	22,300	11:10	200	10	CL
SB-6 @ 8.75'	12/13/2016	14:25	8.1	<20.0	14:43	20.0	1	CL
SB-7 @ 7.5'	12/13/2016	14:50	3,166		Not	Analyzed for T	PH	
SB-7 @ 8.5'	12/13/2016	14:54	3,901	7,640	15:13	200	10	CL
SB-8 @ 8'	12/13/2016	15:20	5.2	<20.0	15:32	20.0	1	CL
SB-9 @ 8.5'	12/13/2016	15:52	0.5	<20.0	16:06	20.0	1	CL
SB-10 @ 8.5'	12/13/2016	16:11	0.4	<20.0	16:27	20.0	1	CL
SB-11 @ 8'	12/13/2016	16:31	0.3	<20.0	16:44	20.0	1	CL

					Field TPH			TPH
	Collection	Collection	OVM	Field TPH*	Analysis	TPH PQL		Analysts
Sample ID	Date	Time	(ppm)	(mg/kg)	Time	(mg/kg)	DF	Initials

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Analyst: Cai hu

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Scott 9

Date: 4/26/2017

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	4/26/2017	9:20	North Wall	12.2	41.3	10:41	20.0	1	CL
SC-2	4/26/2017	9:30	South Wall	21.9	23.5	10:44	20.0	1	CL
SC-3	4/26/2017	9:40	East Wall	17.5	<20.0	10:47	20.0	1	CL
SC-4	4/26/2017	9:50	West Wall	2,373	1,420	10:49	20.0	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Contra Analyst:

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Scott 9

Date: 5/10/2017

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-6	5/10/2017	9:40	East Wall	1,314	128	9:44	20.0	1	CL
SC-7	5/10/2017	9:55	West Wall	107	31.4	9:47	20.0	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

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

Coi hu Analyst:

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Scott 9

Date: 7/17/2017

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-5	7/17/2017	10:25	Base	5.0	69.1	11:02	20.0	1	CL
SC-8	7/17/2017	10:30	North Wall	1.7	40.4	10:57	20.0	1	CL
SC-9	7/17/2017	10:35	South Wall	1,045	60.8	11:58	20.0	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Coi hu Analyst:

Analytical Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

November 17, 2016

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

RE: COPC Hudson 5M

OrderNo.: 1611633

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/11/2016 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 <u>www.hallenvironmental.com</u> 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1611633 Date Reported: 11/17/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Animas Environmental
 Client Sample ID: BGT S-1

 Project:
 COPC Hudson 5M
 Collection Date: 11/10/2016 10:00:00 AM

 Lab ID:
 1611633-001
 Matrix: SOIL
 Received Date: 11/11/2016 8:00:00 AM

Analyses	Result	PQL Q	ual Units	DF Date Analyzed Ba	tch
EPA METHOD 418.1: TPH				Analyst: M	AB
Petroleum Hydrocarbons, TR	10000	1900	mg/Kg	100 11/16/2016 12:00:00 PM 28	668
EPA METHOD 300.0: ANIONS				Analyst: MI	RA
Chloride	120	30	mg/Kg	20 11/16/2016 2:34:58 PM 28	702
EPA METHOD 8015M/D: DIESEL RANGE		S		Analyst: JN	ΛE
Diesel Range Organics (DRO)	2500	92	mg/Kg	10 11/16/2016 9:02:42 AM 28	641
Motor Oil Range Organics (MRO)	ND	460	mg/Kg	10 11/16/2016 9:02:42 AM 28	641
Surr: DNOP	0	70-130	S %Rec	10 11/16/2016 9:02:42 AM 28	641
EPA METHOD 8015D: GASOLINE RANG	E			Analyst: NS	SB
Gasoline Range Organics (GRO)	4300	250	mg/Kg	50 11/15/2016 1:32:05 AM 28	620
Surr: BFB	637	68.3-144	S %Rec	50 11/15/2016 1:32:05 AM 28	620
EPA METHOD 8021B: VOLATILES				Analyst: NS	SB
Benzene	ND	1.2	mg/Kg	50 11/15/2016 1:32:05 AM 28	620
Toluene	3.0	2.5	mg/Kg	50 11/15/2016 1:32:05 AM 28	620
Ethylbenzene	ND	2.5	mg/Kg	50 11/15/2016 1:32:05 AM 28	620
Xylenes, Total	110	4.9	mg/Kg	50 11/15/2016 1:32:05 AM 28	620
Surr: 4-Bromofluorobenzene	150	80-120	S %Rec	50 11/15/2016 1:32:05 AM 28	620

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

Qualifiers:

*

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

14

1.5

15.00

Client: Project:	Animas COPC	s Environmental Hudson 5M	al							
Sample ID	MB-28702	SampType: mblk	TestCode: EPA Method	300.0: Anions						
Client ID:	PBS	Batch ID: 28702	RunNo: 38771							
Prep Date:	11/16/2016	Analysis Date: 11/16/2016	SeqNo: 1211314	Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qu	lal				
Chloride		ND 1.5								
Sample ID	LCS-28702	SampType: Ics	TestCode: EPA Method	300.0: Anions						
Client ID:	LCSS	Batch ID: 28702	RunNo: 38771							
Prep Date:	11/16/2016	Analysis Date: 11/16/2016	SeqNo: 1211315	Units: mg/Kg						
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qu	lal				

0

94.0

90

110

Qualifiers:

Chloride

- * 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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 6

WO#: 1611633

17-Nov-16

Client: Project:	Animas COPC H	Environment Iudson 5M	al								
Sample ID	MB-28668	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	418.1: TPH			
Client ID:	PBS	Batch I	D: 28	668	R	unNo: 3	8752				
Prep Date:	11/15/2016	Analysis Da	te: 11	/16/2016	S	SeqNo: 1	210600	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	drocarbons, TR	ND	20								
Sample ID LCS-28668 SampType: LCS				S	Tes	tCode: El	PA Method	418.1: TPH			
Client ID:	LCSS	Batch I	ID: 28	668	F	RunNo: 3	8752				
Prep Date:	11/15/2016	Analysis Da	te: 11	/16/2016	S	SeqNo: 1	210601	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	drocarbons, TR	110	20	100.0	0	113	80.7	121			
Sample ID	LCSD-28668	SampTy	pe: LC	SD	Tes	tCode: El	PA Method	418.1: TPH			
Client ID:	LCSS02	Batch I	ID: 28	668	F	RunNo: 3	8752				
Prep Date:	11/15/2016	Analysis Da	te: 11	/16/2016	S	SeqNo: 1	210602	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hyd	drocarbons, TR	110	20	100.0	0	111	80.7	121	1.18	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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 3 of 6

17-Nov-16

1611633

WO#:

Client: Ani	mas Environmental								
Project: CO	PC Hudson 5M								
Sample ID MB-28641	SampType	MBLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batch ID:	28641	28641 RunNo: 38704						
Prep Date: 11/14/2016	Analysis Date:	11/15/2016	S	SeqNo: 12	209527	Units: mg/M	g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MF	RO) ND	50							
Surr: DNOP	7.8	10.00		78.4	70	130			
Sample ID LCS-28641	SampType	LCS	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch ID	28641	F	RunNo: 38	8704				
Prep Date: 11/14/2016	Analysis Date:	11/15/2016	5	SeqNo: 12	209529	Units: mg/k	٢g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10 50.00	0	82.4	62.6	124			
Surr: DNOP	4.1	5.000		81.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 6

WO#: 1611633 17-Nov-16

Client: Animas Project: COPC H	Environmer Hudson 5M	ntal								
Sample ID MB-28620	SampT	ype: ME	BLK	Tes	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	ID: 28	620	RunNo: 38684						
Prep Date: 11/11/2016	S	eqNo: 1	208386	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.3	68.3	144			
Sample ID LCS-28620	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	D: 28	620	F	unNo: 3	8684				
Prep Date: 11/11/2016	Analysis D	ate: 1	1/14/2016	S	eqNo: 1	208395	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	95.5	74.6	123			
Surr: BFB	930		1000		93.3	68.3	144			

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1611633 17-Nov-16

Animas Environmental

Client:

Project: COPC H	udson 5M								
Sample ID MB-28620	SampType: M	BLK	Test	Code: EF	PA Method	8021B: Volat	iles		
Prep Date: 11/11/2016	Analysis Date: 1	1/14/2016	S	eqNo: 12	208454	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	0.99	1.000		99.4	80	120			
Sample ID LCS-28620	SampType: LO	s	Test	Code: EF	A Method	8021B: Volat	iles		
Client ID: LCSS	Batch ID: 28	620	R	unNo: 38	8684				
Prep Date: 11/11/2016	Analysis Date: 1	1/14/2016	S	eqNo: 12	208455	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	93.7	75.2	115			
Toluene	1.0 0.050	1.000	0	100	80.7	112			
Ethylbenzene	1.0 0.050	1.000	0	102	78.9	117			
Xylenes, Total	3.1 0.10	3.000	0	102	79.2	115			
Surr: 4-Bromofluorobenzene	1.1	1.000		111	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J
 - Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

1611633

WO#:

17-Nov-16

Page 6 of 6

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysi 4901 Albuquerqu TEL: 505-345-3975 FAX: 5 Website: www.hallenviro	s Laboratory Hawkins NE e, NM 87109 05-345-4107 mmental.com	Sam	ple Log-In C	heck List
Client Name: Animas Environmental We	ork Order Number: 1611	333		RcptNo:	1
Received by/date: AS MII	116				
Logged By: Lindsay Mangin 11/1	1/2016 8:00:00 AM	O	ytheo		
Completed By: Lingsay Mangin 11/1	1/2016 10:17:25 AM	()	- Jufflego		
Reviewed By:		V			
Chain of Custody				242.2.10101	
1. Custody seals intact on sample bottles?	Yes		No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?	Yes	\checkmark	No 🗌	Not Present	
3. How was the sample delivered?	Cour	ier			
Log In					
4. Was an attempt made to cool the samples?	Yes	\checkmark	No 🗌	NA 🗆	
5. Were all samples received at a temperature of >0	0° C to 6.0°C Yes		No 🗌		
6. Sample(s) in proper container(s)?	Yes		No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes	\checkmark	No 🗌		
8. Are samples (except VOA and ONG) properly pre-	served? Yes		No 🗌		
9. Was preservative added to bottles?	Yes		No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes		No 🗆	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes		No 🗹 🛛	# . f	
12.Does paperwork match bottle labels?	Yes		No 🗆	# of preserved bottles checked for pH:	
(Note discrepancies on chain of custody)	100			(<2 c	or >12 unless noted)
13. Are matrices correctly identified on Chain of Custo	ody? Yes		No 🗌	Adjusted?	
14. Is it clear what analyses were requested?	Yes			Checked by:	
(If no, notify customer for authorization.)	Yes	¥		Oliecked by,	
Special Handling (if applicable)					
16. Was client notified of all discrepancies with this or	der? Yes		No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via: eMa	ail 🗌 Phone	Fax	In Person	
Regarding:					
Client Instructions:					
17. Additional remarks:					
18. <u>Cooler Information</u>					
Cooler No Temp *C Condition Seal Int 1 1.8 Good Yes	act Seal No Seal Da	ate Sign	ed By	,	
1					
Page 1 of 1					

Page 1 of 1

Ch	ain-o	f-Cus	tody Record	Turn-Around T	Time:					н	ALI	LE	N	VI	RO	NM	IEN	TA	L	
Client:	Animas	s Enviro	nmental Services, LLC	X Standard		h	- [A	NA	LY	SI	SI	LAI	BOI	RAT	O	۲Y	
				Project Name:					1		www.	halle	envir	ronm	nenta	l.com	1			
Mailing Ad	dress:	604 W	Pinon St.	co	PC HUDSON	5M		49	01 H	lawk	ins NI	Ε-	Albu	Jque	rque	. NM	87109	3		
		Farmin	aton. NM 87401	Project #:				Te	el. 50)5-34	5-39	75	Fa	ax 5	505-3	45-4	107			
Phone #:	505-564	-2281	3	1						f e		Ana	lysis	s Re	ques	st				
Email or Fa	ax#: clam	ieman@a	nimasenvironmental.com	Project Manag	jer:							Т								
QA/QC Pac	kage:				C. Lamema	n/E. Skyles														
X Standar	ď		Level 4 (Full Validation))																
Accreditati	on:			Sampler: CL/S	G /															
O NELAP		□ Other		On Ice:	⊠ Yes	<u>Ó</u> No														Î
	ype)	1		Sample Temp	erature:	1.840	_	8.1		0.0										Š
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	TEX - 8021E	H - EPA 41	H - 8015	Ilorides - 30										Bubbles ()
						1011000	8	Ē	1	Ċ			_	-	\rightarrow		_			Ż
11/10/16	10:00	SOIL	BGT S-1	1 - 4 oz.	cool	-001	Х	х	Х	Х										
											+	+	-+	-+	-+	-	+	+	\vdash	-
								-					+	-+	+		+-	+	\vdash	-
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and an extension of the second					l							_	_							
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Ren	narks	s: Bil	to C	onoc	o Ph	illips							\neg
1/10/10	1950	Ľ	viln	Bull	alt	1/10/10/1950	Sup	#21 ervis	1773 sor: (140 Chris	Neue	nsch	nwan	der						
Date:	Time:	Relinquish	ed by:	Received by:	1	Date Time	Area	a: 3	, 51											
10/14	2050	1/ihr	st Daels	and /	m	11/11/16 0300	Ord	ered	by: I	Bobb	y Spe	arma	an							
[1	f necessary, s	samples subm	nitted to Hall Environmental may be sul	bcontracted to other a	ccredited laborator	ries. This serves as notice of	this po	ossibili	ity. An	y sub-	contract	ed dat	ta will	be cle	arly no	tated or	the ana	llytical r	report.	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

May 01, 2017

Corwin Lameman Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281 FAX

RE: COPC Scott 9

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

OrderNo.: 1704C07

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/27/2017 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1704C07

Date Reported: 5/1/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Animas Environmental	Client Sample ID: SC-1											
Project:	COPC Scott 9	Collection Date: 4/26/2017 9:20:00 AM											
Lab ID:	1704C07-001	Matrix:	MEOH (SO	IL)	Received Date: 4/27/2017 7:00:00 AM								
Analyses		Result	PQL (Qual	Units	DF	Date Analyzed	Batch					
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS	8				Analyst	JME					
Diesel Ra	ange Organics (DRO)	23	9.4		mg/Kg	1	4/28/2017 6:05:43 PM	31473					
Motor Oil	Range Organics (MRO)	ND	47		mg/Kg	1	4/28/2017 6:05:43 PM	31473					
Surr: [ONOP	86.4	70-130		%Rec	1	4/28/2017 6:05:43 PM	31473					
EPA MET	HOD 8015D: GASOLINE RAI	NGE					Analyst	NSB					
Gasoline	Range Organics (GRO)	4.9	3.3		mg/Kg	1	4/27/2017 11:42:59 PM	G42416					
Surr: E	BFB	153	54-150	S	%Rec	1	4/27/2017 11:42:59 PM	G42416					
EPA MET	HOD 8021B: VOLATILES						Analyst	NSB					
Benzene	1 · · · · · · · · · · · · · · · · · · ·	ND	0.016		mg/Kg	1	4/27/2017 11:42:59 PM	B42416					
Toluene		ND	0.033		mg/Kg	1	4/27/2017 11:42:59 PM	B42416					
Ethylben	zene	ND	0.033		mg/Kg	1	4/27/2017 11:42:59 PM	B42416					
Xylenes,	Total	ND	0.065		mg/Kg	1	4/27/2017 11:42:59 PM	B42416					
Surr: 4	4-Bromofluorobenzene	114	66.6-132		%Rec	1	4/27/2017 11:42:59 PM	B42416					

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

Qualif	fiers:
--------	--------

*

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1704C07

Date Reported: 5/1/2017

Hall Environmental Analysis Laboratory, Inc.

Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch
Lab ID:	1704C07-002	Matrix:	MEOH (SOIL)	Received	Date: 4/27/2017 7:00:00 AM	
Project:	COPC Scott 9			Collection	Date: 4/26/2017 9:30:00 AM	
CLIENT:	Animas Environmental		0	lient Samp	le ID: SC-2	

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: JME											
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/28/2017 7:27:03 PM	31473					
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/28/2017 7:27:03 PM	31473					
Surr: DNOP	88.1	70-130	%Rec	1	4/28/2017 7:27:03 PM	31473					
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB					
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	4/28/2017 12:31:13 AM	G42416					
Surr: BFB	100	54-150	%Rec	1	4/28/2017 12:31:13 AM	G42416					
EPA METHOD 8021B: VOLATILES					Analyst:	NSB					
Benzene	ND	0.016	mg/Kg	1	4/28/2017 12:31:13 AM	B42416					
Toluene	ND	0.032	mg/Kg	1	4/28/2017 12:31:13 AM	B42416					
Ethylbenzene	ND	0.032	mg/Kg	1	4/28/2017 12:31:13 AM	B42416					
Xylenes, Total	ND	0.064	mg/Kg	1	4/28/2017 12:31:13 AM	B42416					
Surr: 4-Bromofluorobenzene	106	66.6-132	%Rec	1	4/28/2017 12:31:13 AM	B42416					

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

Qualifiers:

*

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1704C07

Date Reported: 5/1/2017

1 4/28/2017 12:55:15 AM B42416

1 4/28/2017 12:55:15 AM B42416

4/28/2017 12:55:15 AM B42416

4/28/2017 12:55:15 AM B42416

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental		0	lient Sampl	e ID: SC	-3							
Project: COPC Scott 9	Collection Date: 4/26/2017 9:40:00 AM											
Lab ID: 1704C07-003	Matrix: N	AEOH (SOIL)	Received	Date: 4/2								
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch						
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst:	JME						
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	4/28/2017 7:54:05 PM	31473						
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/28/2017 7:54:05 PM	31473						
Surr: DNOP	86.7	70-130	%Rec	1	4/28/2017 7:54:05 PM	31473						
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB						
Gasoline Range Organics (GRO)	ND	2.8	mg/Kg	1	4/28/2017 12:55:15 AM	G42416						
Surr: BFB	110	54-150	%Rec	1	4/28/2017 12:55:15 AM	G42416						
EPA METHOD 8021B: VOLATILES					Analyst:	NSB						
Benzene	ND	0.014	mg/Kg	1	4/28/2017 12:55:15 AM	B42416						

0.028

0.028

0.055

66.6-132

ND

ND

ND

107

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

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

Qualifiers:	*
-------------	---

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1704C07

01-May-17

Client: Project:	Animas E COPC Sc	environmental ott 9									
Sample ID	MB-31481	SampType	ME	BLK	Tes	tCode: E	EPA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch ID:	31	481	F	RunNo:	42424				
Prep Date:	4/28/2017	Analysis Date:	4/	28/2017	5	SeqNo:	1333940	Units: %Re	с		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.8		10.00		88.3	70	130			
Sample ID	LCS-31481	SampType	: LC	S	Tes	tCode: E	EPA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch ID:	31	481	F	RunNo:	42424				
Prep Date:	4/28/2017	Analysis Date:	4/	28/2017	5	SeqNo:	1333970	Units: %Re	с		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1	4.5		5.000		89.8	70	130			
Sample ID	1704C07-001AMS	SampType	: MS	6	Tes	tCode: E	EPA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	SC-1	Batch ID:	31	473	F	RunNo:	42424				
Prep Date:	4/27/2017	Analysis Date:	4/	28/2017	S	SeqNo: ·	1334727	Units: mg/k	٢g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	73	10	50.30	23.19	99.1	51.6	130			
Surr: DNOP		4.7		5.030		93.0	70	130			
Sample ID	1704C07-001AMS	D SampType	: MS	D	Tes	tCode: E	EPA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	SC-1	Batch ID:	31	473	F	RunNo:	42424				
Prep Date:	4/27/2017	Analysis Date:	4/	28/2017	S	SeqNo:	1334729	Units: mg/H	٢g		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	68	9.8	48.92	23.19	92.0	51.6	130	6.87	20	
Surr: DNOP		4.6		4.892		93.5	70	130	0	0	

Qualifiers:

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 4 of 6
- 5

Client: Anima Project: COPC	s Environme Scott 9	ntal									
Sample ID BB	Samo	Tupe: M		Tes	tCode: E	PA Mothod	8015D: Gas	lino Pana			_
Sample ID RB	Samp	ype. wit	BLK	163	LOUUE. L	FAMethou	0015D. Gast	nine Rang	e		
Client ID: PBS	Batc	h ID: G4	12416	F	RunNo: 4	2416					
Prep Date:	Analysis E	Date: 4/	27/2017	5	SeqNo: 1	333745	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1200		1000		116	54	150				_
Sample ID 2.5UG GRO LC	Samp1	Type: LC	s	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e		
Client ID: LCSS	Batc	h ID: G4	12416	F	RunNo: 4	2416					
Prep Date:	Analysis [Date: 4/	27/2017	5	SeqNo: 1	333746	Units: mg/H	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	76.4	125				
Surr: BFB	1200		1000		115	54	150				

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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 6

1704C07 01-May-17

WO#:

Client:	Animas Environmental
Project:	COPC Scott 9

40											
Sample ID	RB	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8021B: Volat	tiles		
Client ID:	PBS	Batcl	n ID: B4	2416	R	unNo: 4	2416				
Prep Date:		Analysis D	ate: 4/	27/2017	S	eqNo: 1	333768	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-Brom	nofluorobenzene	1.3		1.000		128	66.6	132			
Sample ID	100NG BTEX LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Sample ID Client ID:	100NG BTEX LCS LCSS	Samp1 Batcl	ype: LC	S 2416	Tesi	tCode: El	PA Method 2416	8021B: Volat	tiles		
Sample ID Client ID: Prep Date:	100NG BTEX LCS LCSS	SampT Batcl Analysis D	Type: LC h ID: B4 Date: 4/	S 2416 27/2017	Tes R S	tCode: El RunNo: 4 SeqNo: 1	PA Method 2416 333819	8021B: Volat Units: mg/K	tiles (g		
Sample ID Client ID: Prep Date: Analyte	100NG BTEX LCS LCSS	SampT Batcl Analysis D Result	Type: LC h ID: B4 Date: 4/ PQL	S 2416 27/2017 SPK value	Tesi R S SPK Ref Val	tCode: El RunNo: 4 SeqNo: 1 %REC	PA Method 2416 333819 LowLimit	8021B: Volat Units: mg/K HighLimit	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene	100NG BTEX LCS LCSS	SampT Batcl Analysis D Result 0.94	Type: LC h ID: B4 Date: 4/ PQL 0.025	S 2416 27/2017 SPK value 1.000	Tesi R S SPK Ref Val 0	tCode: El RunNo: 4 SeqNo: 1 %REC 93.7	PA Method 2416 333819 LowLimit 80	8021B: Volat Units: mg/K HighLimit 120	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene	100NG BTEX LCS LCSS	SampT Batcl Analysis E Result 0.94 0.95	Type: LC h ID: B4 Date: 4/ PQL 0.025 0.050	2416 27/2017 SPK value 1.000 1.000	Tesi F S SPK Ref Val 0 0	Code: El RunNo: 4 GeqNo: 1 %REC 93.7 94.9	PA Method 2416 333819 LowLimit 80 80	8021B: Volat Units: mg/M HighLimit 120 120	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	100NG BTEX LCS LCSS	Samp Batch Analysis D Result 0.94 0.95 0.95	ype: LC h ID: B4 Date: 4/ PQL 0.025 0.050 0.050	S 2416 27/2017 SPK value 1.000 1.000 1.000	Tesi F SPK Ref Val 0 0 0 0	Code: El RunNo: 4 SeqNo: 1 %REC 93.7 94.9 95.4	PA Method 2416 333819 LowLimit 80 80 80 80	8021B: Volat Units: mg/k HighLimit 120 120 120	tiles Sg %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	100NG BTEX LCS LCSS	SampT Batch Analysis D Result 0.94 0.95 0.95 2.9	ype: LC h ID: B4 Date: 4/ PQL 0.025 0.050 0.050 0.10	S 2416 27/2017 SPK value 1.000 1.000 1.000 3.000	Tes F SPK Ref Val 0 0 0 0 0 0	Code: El RunNo: 4 SeqNo: 1 %REC 93.7 94.9 95.4 96.7	PA Method 2416 333819 LowLimit 80 80 80 80 80	8021B: Volat Units: mg/k HighLimit 120 120 120 120	tiles Sg %RPD	RPDLimit	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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 6 of 6

01-May-17

1704C07

WO#:

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental . Albu TEL: 505-345-3975 Website: www.hal	Analysi 4901 querqu FAX: 5 llenviro	s Labora Hawkins e, NM 87 05-345-4 mmental.	tory s NE 2109 S 1107 com	Sample Log-In Check List					
Client Name: Animas Environmental	Work Order Number:	17040	07			RcptNo: 1				
Received By: Sophia Campuzano	4/27/2017 7:00:00 AM			Southan	eger -					
Completed By: Lindsay Mangin	4/27/2017 8:05:18 AM			Frenchaft	Harring					
Reviewed By: SRC 04/27/	17				Ū					
Chain of Custody										
1. Custody seals intact on sample bottles?		Yes		No		Not Present				
2. Is Chain of Custody complete?		Yes	~	No		Not Present				
3. How was the sample delivered?		Cour	ier							
Log In										
4. Was an attempt made to cool the sample	s?	Yes	V	No	ì	NA				
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes		No		NA				
6. Sample(s) in proper container(s)?		Yes	V	No						
7. Sufficient sample volume for indicated tes	t(s)?	Yes	×	No						
8. Are samples (except VOA and ONG) prop	erly preserved?	Yes	1	No						
9. Was preservative added to bottles?		Yes	1	No	Y	NA				
10.VOA vials have zero headspace?		Yes	× 4	No		No VOA Vials 🗸				
11. Were any sample containers received bro	ken?	Yes		No	V	# of preserved				
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	~	No	ļ	for pH: (<2 or >12 unless noted)				
13. Are matrices correctly identified on Chain	of Custody?	Yes	V	No	÷	Adjusted?				
14. Is it clear what analyses were requested?		Yes	v .	No						
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	V	No		Checked by:				
Special Handling (if applicable)										

16. Was client notified of all c	liscrepancies with this order?		Yes	No	1	NA NA	1
Person Notified:	an a	Date:	ne ana naga ng ng nga ganga	anana watu ata at			
By Whom:	a fallan mill höle. All a fer för där är där är där för andra för skan för skan hän närar skan som som som som Till skan skan för att skan för där är där är för att skan för skan för skan för skan för skan för skan för skan Till skan skan för sk	Via:	eMail	Phone	Fax	In Person	
Regarding:	ann an Anthread an an Annaichtean Annaichtean an Annaichtean an Annaichtean an Annaichtean Annaichtean an Annai Annaichtean an Annaichtean an Annaichtean an Annaichtean an Annaichtean an Annaichtean an Annaichtean an Annaich	alan Tanang Kabupatèn Sebatan P	. E. MILTINE AND A D SWITH	an a na sa santagana na na sanakan	مود ما در هورو تو دارنی و در دارد امو	7.2.7120711291)11 (942.15 7 794091914)11	u.,
Client Instructions:	angenergen grunger sykunde, anvelande der Siele die die Leis die die 148 mei die 148 mei die State in 148 mil 494 mil	, and the set of a loss of the second se	al un landoulfullavigen la vaguerra	n 48 649-2 ⁵ 66 ₩346e an Europe W.C.C. ⁹ -9-9-9	Haf 's provinsi kika	elenen erhalt dans zeit, ille ihen delen di bez.	

17. Additional remarks:

18. Cooler Information

Cooler N	lo Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			

Page 1 of 1

UI	all-U	I-Cus	louy Record							HAI		EN	VI	RC	N	ME	NT/	AL
Client	Anima	s Enviro	nmental Services, LLC	Standard	X Rush_	_3-DAY	- [5	AN	AL	YS	IS	LA	BO	RA	TO	RY
				Project Name:			ו			MAN	wha	llenv	iron	nent	al cor	 m		
Mailing Ad	dress:	604 W	Pinon St	1	COPC Scott	9		40	01 പം	ukine		Alb			NIM	9710	0	
		Farmin	aton NM 87401	Project #:				49		245 2	NE ·	- Alb	Fay	FOR	, INIV	10/10	5	
Phone #	505-564	-2281	gion, NW 07401				1.5		31, 505	-340-3	An	alvsi	is Re	eaue	545-4 st	+107		
Email or Fa	ax#: clan	neman@a	nimasenvironmental.com	Project Manad	ier:												T	
QA/QC Pac	kage:				C. Lamema	/E. McNally												
X Standar	ď		Level 4 (Full Validation)			-		015										
Accreditati	on:			Sampler: CL]	- 8(
D NELAP		□ Other		On Ice:	X Yes	□ No		RO										Î
	ype)	1		Sample Temp	erature: 4.(0	-	NO										or I
							21	E C										N SC
Date	Time	Matrix	Sample Request ID	Container	Preservative Type	HEAL No.	8	GR										pidd
				Typo and #		MOUNT	Ē	H										8
4/00/47	0.00	0.011	50.4	1 - MeOH Kit		THURCOF		F		+-					+		+	4
4/20/17	9.20	SUIL	50-1	1 - 4 oz jar	C001	-001	^	<u> </u>	_						-		+	+
4/26/17	9:30	SOIL	SC-2	1 - 4 oz jar	cool	-002	X	X		_							\perp	
4/26/17	9:40	SOIL	SC-3	1 - MeOH Kit 1 - 4 oz jar	cool	-003	X	X										
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126/17	1803	"haus	tubilde	July c	J	01121111 0100		ered	оу. во	ony st	earn	Idil						

HALL ENVIRONMENTAL ANALYSIS LABORATORY

May 16, 2017

Corwin Lameman Animas Environmental 604 Pinon Street Farmington, NM 87401 TEL: (505) 564-2281 FAX

RE: COPC Scott 9

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

OrderNo.: 1705588

Dear Corwin Lameman:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/11/2017 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1705588 Date Reported: 5/16/2017

31671

31671

31671

31671

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: SC-6 **CLIENT:** Animas Environmental Collection Date: 5/10/2017 9:40:00 AM **Project:** COPC Scott 9 Matrix: SOIL Received Date: 5/11/2017 7:20:00 AM Lab ID: 1705588-001 Analyses Result **POL Oual Units DF** Date Analyzed Batch EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM 9.4 5/15/2017 11:06:04 AM 31684 **Diesel Range Organics (DRO)** 120 mg/Kg 1 ND 47 mg/Kg 5/15/2017 11:06:04 AM 31684 Motor Oil Range Organics (MRO) 1 5/15/2017 11:06:04 AM 31684 Surr: DNOP 70-130 %Rec 84.6 1 Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 5/11/2017 8:57:04 PM Gasoline Range Organics (GRO) 140 16 mg/Kg 5 31671 Surr: BFB 460 54-150 %Rec 5/11/2017 8:57:04 PM 31671 S 5 EPA METHOD 8021B: VOLATILES Analyst: NSB Benzene ND 0.078 5 5/11/2017 8:57:04 PM 31671 mg/Kg

Toluene 0.32 0.16 mg/Kg 5 5/11/2017 8:57:04 PM 5/11/2017 8:57:04 PM Ethylbenzene ND 0.16 mg/Kg 5 0.31 5 5/11/2017 8:57:04 PM Xylenes, Total 1.4 mg/Kg Surr: 4-Bromofluorobenzene 127 66.6-132 %Rec 5 5/11/2017 8:57:04 PM

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

Qualifiers:

*

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1705588 Date Reported: 5/16/2017

5/11/2017 9:44:36 PM

31671

1

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

CLIENT:	Animas Environmental	Client Sample ID: SC-7									
Project:	COPC Scott 9			(Collection	Date: 5/1	0/2017 9:55:00 AM				
Lab ID:	1705588-002	Matrix: S	Matrix: SOIL Received Date: 5/11/2017 7:20:00 AM								
Analyses		Result	PQL Q	Qual	Units	DF	Date Analyzed	Batch			
EPA MET	HOD 8015M/D: DIESEL RAN	IGE ORGANICS					Analyst	том			
Diesel Ra	ange Organics (DRO)	ND	9.7		mg/Kg	1	5/15/2017 11:30:41 AM	31684			
Motor Oil	Range Organics (MRO)	ND	49		mg/Kg	1	5/15/2017 11:30:41 AM	31684			
Surr: [ONOP	83.6	70-130		%Rec	1	5/15/2017 11:30:41 AM	31684			
EPA MET	HOD 8015D: GASOLINE RA	NGE					Analyst	NSB			
Gasoline	Range Organics (GRO)	18	2.8		mg/Kg	1	5/11/2017 9:44:36 PM	31671			
Surr: E	BFB	338	54-150	S	%Rec	1	5/11/2017 9:44:36 PM	31671			
EPA MET	HOD 8021B: VOLATILES						Analyst	NSB			
Benzene		ND	0.014		mg/Kg	1	5/11/2017 9:44:36 PM	31671			
Toluene		0.046	0.028		mg/Kg	1	5/11/2017 9:44:36 PM	31671			
Ethylben	zene	ND	0.028		mg/Kg	1	5/11/2017 9:44:36 PM	31671			
Xylenes,	Total	0.20	0.056		mg/Kg	1	5/11/2017 9:44:36 PM	31671			

66.6-132

%Rec

119

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

Qualifiers:

*

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- 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 Page 2 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1705588

Page 3 of 5

16-May-17

Client: Anima Project: COPC	as Environment C Scott 9	tal								
Sample ID LCS-31684	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 31	684	F	RunNo: 4	2745				
Prep Date: 5/11/2017	Analysis Da	ite: 5/	12/2017	S	SeqNo: 1	345195	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.3	63.8	116			
Surr: DNOP	4.9		5.000		97.9	70	130			
Sample ID MB-31684	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 31	684	F	RunNo: 4	2745				
Prep Date: 5/11/2017	Analysis Da	ite: 5/	12/2017	5	SeqNo: 1	345196	Units: mg/k	٢g		
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	10		10.00		103	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
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Animas	s Environmen	ital								
Project: COPC	Scott 9									
Sample ID MB-31671	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	le	
Client ID: PBS	Batch	ID: 31	671	F	RunNo: 4	2718				
Prep Date: 5/10/2017	Analysis Da	ate: 5/	11/2017	5	SeqNo: 1	344416	Units: mg/M	g		
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		100	54	150			
Sample ID LCS-31671	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	ID: 31	671	F	RunNo: 4	2718				
Prep Date: 5/10/2017	Analysis Da	ate: 5/	11/2017	5	SeqNo: 1	344417	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	97.1	76.4	125			
Surr: BFB	1100		1000		106	54	150			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Page 4 of 5

WO#:

16-May-17

1705588

Client:	Animas I	Environme	ntal								
Project:	COPC Se	cott 9									
Sample ID MB	-31671	SampT	уре: МЕ	BLK	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PB	S	Batch	n ID: 31	671	R	unNo: 4	2718				
Prep Date: 5/	10/2017	Analysis D	ate: 5/	11/2017	S	eqNo: 1	344435	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-Bromofluc	probenzene	1.1		1.000		<mark>114</mark>	66.6	132			
Sample ID LC	S-31671	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LC	SS	Batch	n ID: 31	671	F	RunNo: 4	2718				
Prep Date: 5/	10/2017	Analysis D	ate: 5/	11/2017	S	SeqNo: 1	344436	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	99.8	80	120			
Toluene		1.0	0.050	1.000	0	99.6	80	120			
Ethylbenzene		1.0	0.050	1.000	0	101	80	120			
Xylenes, Total		3.1	0.10	3.000	0	103	80	120			
0				1 000		110	00.0	100			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Page 5 of 5

WO#:

16-May-17

1705588

HALL ENVIR ANALY LABOR	ONMENTAL 7818 Ratory	Hall Environmental A Albue TEL: 505-345-3975 I Website: www.hali	Inalysis Laborat 4901 Hawkins querque, NM 87 FAX: 505-345-41 lenvironmental.c	ory NE 109 Sam 107	ole Log-In Check List
Client Name:	Animas Environmental	Work Order Number:	1705588		RcptNo: 1
Received By: Completed By: Reviewed By:	Anne Thorne Anne Thorne ENM	5/11/2017 7:20:00 AM 5/11/2017 7:48:17 AM 05/ハノノブ		Arre H-	-
Chain of Cust 1. Custody seal 2. Is Chain of C 3. How was the	tody Is intact on sample bottles? Sustody complete? sample delivered?		Yes □ Yes ✔ <u>Courier</u>	No 🗌 No 🗌	Not Present ☑
Log In 4. Was an atter	mpt made to cool the samples	?	Yes 🗹	No 🗌	
5. Were all sam	nples received at a temperatur	e of >0° C to 6.0°C	Yes 🗹	No 🗌	
 Sample(s) in Sufficient sar Are samples 	mple volume for indicated test	s)?	Yes V Yes V		
9. Was preserve	ative added to bottles?		Yes	No 🗹	NA 🗌
10.VOA vials ha 11. Were any sa	ve zero headspace? mple containers received brok	en?	Yes Yes	No 🗌 No 🗹	No VOA Vials 🗹
12. Does paperw (Note discrep	ork match bottle labels? pancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices 14. Is it clear wha 15. Were all hold (If no, notify c	correctly identified on Chain o at analyses were requested? ling times able to be met? customer for authorization.)	f Custody?	Yes ♥ Yes ♥ Yes ♥	No No No	Checked by:
Special Handl	ling (if applicable) otified of all discrepancles with	this order?	Yes	No 🗌	NA 🗹
Person By Who Regard Client I	Notified: om: ling: nstructions:	Date J Via: [] eMaii [] P	hone 🗌 Fax	
17. Additional re 18. <u>Cooler Infor</u> Cooler No 1 Page 1 of	marks: mation Temp °C Condition S 1.0 Good Ye	eal Intact Seal No S s	eal Date	Signed By	

Client:	nain-o Anima	s Enviro	tody Record nmental Services, LLC	Turn-Around	Time: X Rush	_3-DAY				H	AL NA		EN SI		RO Al	BO	1EI RA	NT	AL R)	٢
Mailing Ac	dress:	604 W	Pinon St.		COPC Scott	9		49	01 F	lawki	ns N	E -	Albu	lque	rque	, NM	' 8710	09		
		Farmin	gton, NM 87401	Project #:				Te	el. 50	05-34	5-39	75	F	ax 5	05-3	45-4	107			
Phone #:	505-564	-2281										Ana	lysis	s Re	ques	st				
Email or F	ax#: clam	neman@a	nimasenvironmental.com	Project Manag	ger:															
QA/QC Pac X Standa	ckage: rd		Level 4 (Full Validation)		C. Lamema	n/E. McNally		015												
Accreditat	ion:			Sampler: CL				9-(
		□ Other		On Ice:	X Yes	D No	2	IRO												Î
	ype)	1		Sample Temp	erature:	-0	-	NO												0
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX - 8021E	TPH (GRO/DR												Air Bubbles (Y
5/10/17	9:40	SOIL	SC-6	1 - MeOH Kit 1 - 4 oz jar	cool	701	X	x												
5/10/17	9:55	SOIL	SC-7	1 - MeOH Kit 1 - 4 oz jar	cool	702	X	x									-	+	-	F
														_						
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																			t	F
												+	-		-		-	-	+	+
Date: 5/16/17 Date: 5/10/17	Time: 1_032- Time: 1847	Relinquishe	ed by: in the whele	Received by: Autor Received by: Ann	West .	Date Time 5/10/-7/632 Date Time 051 11/17 0720	Ren WO Sup USE Area Orde	# 10 ervis ERID a: 3 ered	s: Bil 398 or: F : KA by: I	I to C B28 Randy ITLW Bobby	Smith Smith	o Ph th	illips an	С	all	~1	Qu	ie of	ins	5
1	f necessary, s	amples subm	itted to Hall Environmental may be sub	contracted to other ad	ccredited laborator	ies. This serves as notice o	f this po	ossibilit	ty. An	y sub-c	ontract	ed da	ta will l	be clea	rly not	ated on	the ar	nalytica	report	Ĺ



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

July 19, 2017

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

RE: COPC Scott 9

OrderNo.: 1707842

Dear Elizabeth McNally:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/18/2017 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1707842 Date Reported: 7/19/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services Project: COPC Scott 9

Client Sample ID: SC-5 Collection Date: 7/17/2017 10:25:00 AM Received Date: 7/18/2017 7:00:00 AM

Lab ID: 1707842-001	Matrix:	SOIL	Received	Received Date: 7/18/2017 7:00:00 AM							
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S			Analyst:	TOM					
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/18/2017 11:20:04 AM	32851					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/18/2017 11:20:04 AM	32851					
Surr: DNOP	88.8	70-130	%Rec	1	7/18/2017 11:20:04 AM	32851					
EPA METHOD 8015D: GASOLINE RANG	E				Analyst:	NSB					
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	7/18/2017 10:57:54 AM	32828					
Surr: BFB	100	54-150	%Rec	1	7/18/2017 10:57:54 AM	32828					
EPA METHOD 8021B: VOLATILES					Analyst:	NSB					
Benzene	ND	0.019	mg/Kg	1	7/18/2017 10:57:54 AM	32828					
Toluene	ND	0.038	mg/Kg	1	7/18/2017 10:57:54 AM	32828					
Ethylbenzene	ND	0.038	mg/Kg	1	7/18/2017 10:57:54 AM	32828					
Xylenes, Total	ND	0.076	mg/Kg	1	7/18/2017 10:57:54 AM	32828					
Surr: 4-Bromofluorobenzene	111	66.6-132	%Rec	1	7/18/2017 10:57:54 AM	32828					

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

Qualifiers:	
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*

- 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
- В Analyte detected in the associated Method Blank
- Value above quantitation range E
- Analyte detected below quantitation limits Page 1 of 8 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1707842 Date Reported: 7/19/2017

5 7/18/2017 11:21:34 AM 32828

2 of 8

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

CLIENT: Animas Environmental Services Client Sample ID: SC-8 COPC Scott 9 Collection Date: 7/17/2017 10:30:00 AM Project: Matrix: SOIL Received Date: 7/18/2017 7:00:00 AM Lab ID: 1707842-002 PQL Qual Units Analyses Result **DF** Date Analyzed Batch EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM ND 7/18/2017 11:48:14 AM 32851 Diesel Range Organics (DRO) 9.6 mg/Kg 1 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 7/18/2017 11:48:14 AM 32851 Surr: DNOP 87.7 70-130 %Rec 1 7/18/2017 11:48:14 AM 32851 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 16 mg/Kg 5 7/18/2017 11:21:34 AM 32828 Surr: BFB 102 54-150 %Rec 5 7/18/2017 11:21:34 AM 32828 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 0.082 7/18/2017 11:21:34 AM 32828 Benzene ND mg/Kg 5 Toluene ND 0.16 mg/Kg 5 7/18/2017 11:21:34 AM 32828 Ethylbenzene ND 0.16 mg/Kg 5 7/18/2017 11:21:34 AM 32828 Xylenes, Total ND 0.33 mg/Kg 5 7/18/2017 11:21:34 AM 32828

66.6-132

%Rec

112

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1707842 Date Reported: 7/19/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Animas Environmental Services			C	lient Sampl	le ID: SC	2-9	
Project:	COPC Scott 9				Collection	Date: 7/1	7/2017 11:35:00 AM	
Lab ID:	1707842-003	Matrix:	SOIL		Received	Date: 7/1	8/2017 7:00:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analyst	том
Diesel Ra	ange Organics (DRO)	25	9.7		mg/Kg	1	7/18/2017 12:16:18 PM	32851
Motor Oil	I Range Organics (MRO)	ND	49		mg/Kg	1	7/18/2017 12:16:18 PM	32851
Surr: D	DNOP	88.9	70-130		%Rec	1	7/18/2017 12:16:18 PM	32851
EPA MET	HOD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline	Range Organics (GRO)	67	18		mg/Kg	5	7/18/2017 11:45:13 AM	32828
Surr: E	BFB	187	54-150	S	%Rec	5	7/18/2017 11:45:13 AM	32828
EPA MET	THOD 8021B: VOLATILES						Analyst	NSB
Benzene	1	ND	0.092		mg/Kg	5	7/18/2017 11:45:13 AM	32828
Toluene		0.28	0.18		mg/Kg	5	7/18/2017 11:45:13 AM	32828
Ethylben	zene	ND	0.18		mg/Kg	5	7/18/2017 11:45:13 AM	32828
Xylenes,	Total	1.7	0.37		mg/Kg	5	7/18/2017 11:45:13 AM	32828
Surr: 4	4-Bromofluorobenzene	120	66.6-132		%Rec	5	7/18/2017 11:45:13 AM	32828

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

Qua	lifiers	:
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*

- 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 Page 3 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Animas E COPC Sc	nvironmental ott 9	Service	S							
Sample ID	MB-32851	SampType	MBLK		Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	PBS	Batch ID:	32851		F	unNo: 4	4282				
Prep Date:	7/18/2017	Analysis Date:	7/18/2	017	S	eqNo: 1	398387	Units: mg/K	g		
Analyte		Result P	QL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Motor Oil Rang Surr: DNOP	Organics (DRO) ge Organics (MRO)	ND ND 9.8	10 50	10.00		97.7	70	130			
Sample ID	LCS-32851	SampType	LCS		Tes	Code: E	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	LCSS	Batch ID:	32851		F	unNo: 4	4282				
Prep Date:	7/18/2017	Analysis Date:	7/18/2	017	S	SeqNo: 1	398621	Units: mg/K	g		
Analyte		Result P	QL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	56	10	50.00	0	112	73.2	114			
Surr: DNOP		4.6		5.000		91.9	70	130			
Sample ID	1707842-001AMS	SampType	MS		Tes	Code: E	PA Method	8015M/D: Die	sel Range	organics	
Client ID:	SC-5	Batch ID:	32851		F	unNo: 4	4282				
Prep Date:	7/18/2017	Analysis Date:	7/18/2	017	S	eqNo: 1	398839	Units: mg/K	g		
Analyte		Result P	QL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	56	9.4	46.90	3.250	112	55.8	122			
Surr: DNOP		4.4		4.690		94.4	70	130			
Sample ID	1707842-001AMS	SampType	MSD		Tes	Code: E	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID:	SC-5	Batch ID:	32851		F	unNo: 4	4282				
Prep Date:	7/18/2017	Analysis Date:	7/18/2	017	S	eqNo: 1	398963	Units: mg/K	g		
Analyte		Result P	QL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	58	9.9	49.26	3.250	111	55.8	122	3.77	20	
Surr: DNOP		4.7		4.926	_	94.6	70	130	0	0	
Sample ID	LCS-32836	SampType	LCS		Tes	Code: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch ID:	32836		F	unNo: 4	4282				
Prep Date:	7/17/2017	Analysis Date:	7/18/2	017	S	eqNo: 1	399678	Units: %Red	;		
Analyte		Result P	QL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4		5.000		88.8	70	130			
Sample ID	MB-32836	SampType	MBLK		Tes	Code: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch ID:	32836		R	unNo: 4	4282		0	-	
Prep Date:	7/17/2017	Analysis Date:	7/18/2	017	S	eqNo: 1	399679	Units: %Red	:		
Analyte		Result P	QL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	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
- Page 4 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1707842

19-Jul-17

Client: Project:	Anima COPC	s Environmental Serv Scott 9	vices					
Sample ID	MB-32836	SampType: MB	LK	TestCod	e: EPA Method	8015M/D: Die	sel Range	Organics
Client ID:	PBS	Batch ID: 328	336	RunN	o: 44282			
Prep Date:	7/17/2017	Analysis Date: 7/1	8/2017	SeqN	o: 1399679	Units: %Rec		
Analyte		Result PQL	SPK value	SPK Ref Val %R	EC LowLimit	HighLimit	%RPD	RPDLimit
Surr: DNOP		8.4	10.00	8	4.4 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
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 8

WO#: 1707842 19-Jul-17

Qual

Client: Animas I Project: COPC Se	Environmental Services cott 9		
Sample ID MB-32828	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range
Client ID: PBS	Batch ID: 32828	RunNo: 44294	
Prep Date: 7/17/2017	Analysis Date: 7/18/2017	SeqNo: 1399599	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 960 1000	95.8 54	150
Sample ID LCS-32828	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 32828	RunNo: 44294	
Prep Date: 7/17/2017	Analysis Date: 7/18/2017	SeqNo: 1399600	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	26 5.0 25.00	0 105 76.4	125
Surr: BFB	1100 1000	105 54	150
Sample ID LCSD-32828	SampType: LCSD	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS02	Batch ID: 32828	RunNo: 44294	
Prep Date: 7/17/2017	Analysis Date: 7/18/2017	SeqNo: 1399601	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	1000		0 0
Sample ID MB-32814	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range
Client ID: PBS	Batch ID: 32814	RunNo: 44294	
Prep Date: 7/14/2017	Analysis Date: 7/18/2017	SeqNo: 1399613	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	980 1000	98.2 54	150
Sample ID LCS-32814	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 32814	RunNo: 44294	
Prep Date: 7/14/2017	Analysis Date: 7/18/2017	SeqNo: 1399614	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	1100 1000	107 54	150

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 Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1707842

19-Jul-17

Client: Project:	Animas E COPC Sc	ott 9	ntal Ser	vices							
Sample ID	MB-32828	SampT	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batcl	h ID: 32	828	F	RunNo: 4	4294				
Prep Date:	7/17/2017	Analysis D	Date: 7/	18/2017	S	SeqNo: 1	399633	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-Bromo	ofluorobenzene	1.1		1.000		108	66.6	132			
Sample ID	LCS-32828	SampT	Type: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: I	LCSS	Batcl	h ID: 32	828	F	RunNo: 4	4294				
Prep Date:	7/17/2017	Analysis D	Date: 7/	18/2017	S	SeqNo: 1	399634	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	100	80	120			
Toluene		0.99	0.050	1.000	0	98.7	80	120			
Ethylbenzene		1.0	0.050	1.000	0	100	80	120			
Xylenes, Total		3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromo	ofluorobenzene	1.1		1.000		111	66.6	132			
Sample ID	LCSD-32828	SampT	Type: LC	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: I	LCSS02	Batcl	h ID: 32	828	F	RunNo: 4	4294				
Prep Date:	7/17/2017	Analysis D	Date: 7/	18/2017	5	SeqNo: 1	399635	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.025	1.000	0	103	80	120	3.01	20	
Toluene		1.0	0.050	1.000	0	102	80	120	2.92	20	
Ethylbenzene		1.0	0.050	1.000	0	103	80	120	2.89	20	
Xylenes, Total		3.1	0.10	3.000	0	104	80	120	3.23	20	
Surr: 4-Bromo	ofluorobenzene	1.1		1.000		111	66.6	132	0		
Sample ID	MB-32814	SampT	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: I	PBS	Batcl	h ID: 32	814	F	RunNo: 4	4294				
Prep Date:	7/14/2017	Analysis D	Date: 7/	18/2017	S	SeqNo: 1	399647	Units: %Re	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromo	ofluorobenzene	1.1		1.000		113	66.6	132			
Sample ID	LCS-32814	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batcl	h ID: 32	814	F	RunNo: 4	4294				
Prep Date:	7/14/2017	Analysis D	Date: 7/	18/2017	5	SeqNo: 1	399648	Units: %Re	с		
		Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	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
- Page 7 of 8

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1707842

19-Jul-17

Client:	Anima	s Environme	ntal Ser	vices							
Project:	COPC	Scott 9									
Sample ID	LCS-32814	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID:	LCSS	Batch	n ID: 32	814	F	RunNo: 4	4294				
Prep Date:	7/14/2017	Analysis D	ate: 7/	18/2017	S	SeqNo: 1	399648	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.1		1.000		113	66.6	132			

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 Detection Limit
- W Sample container temperature is out of limit as specified

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1707842 19-Jul-17

WO#:

X	HALL ENVIR ANAL LABOI	CONMENTA YSIS RATORY	nmental An Albuqu 45-3975 FA www.halle	alysis 4901 1 ierque 4X: 50 nviron	Laborator, Hawkins NI , NM 8710 5-345-410 mental.com	5 9 S 7	am	nple Log-In Check List					
Client	Name:	Animas Env	rironmental	Work Order N	lumber: 1	7078	42			RcptNo:	1		
Receiv Comp Review	ved By: leted By: wed By:	Anne Thom Anne Thom ML	ne	7/18/2017 7:00: 7/18/2017 7:23: A [18]17	:00 AM :56 AM			Anne, Anne,	Hum Hum	-			
<u>Chair</u> 1. Cu 2. Is 3. Ho	a of Cus ustody sea Chain of (ow was the	als intact on se Custody comp e sample deliv	ample bottles? Nete? Vered?			Yes Yes Courie	✓	No No		Not Present ☑			
<u>Log</u> 4. w	<u>In</u> /as an atte	empt made to	cool the samples?	?		Yes		No					
5. W 6. s	ere all sar ample(s) i	nples receive	d at a temperature ainer(s)?	e of >0° C to 6.0°	°C Y	Yes	2	No No		NA L			
7, Su 8, Ar 9, W	ufficient sa e samples as preserv	mpie volume s (except VOA vative added t	for indicated test(and ONG) proper o bottles?	s)? rly preserved?		Yes Yes Yes		No No No		NA 🗌			
10.vo 11. W	DA vials h /ere any s	ave zero head ample contair	space? ers received broke	en?		Yes Yes		No No		No VOA Vials 🗹			
12.Do (N 13. Ar 14. Is	oes papen ote discre e matrices it clear wh	work match be pancies on ch s correctly ide nat analyses w	ottle labels? ain of custody) ntified on Chain of vere requested?	Custody?		Yes Yes Yes		No No No		for pH: (<2 o Adjusted?	r >12 unless noted)		
15. W	ere all hole no, notify	ding times ab customer for	e to be met? authorization.)		,	Yes		No		Checked by:			
16.W	as client n	otified of all d	iscrepancies with	this order?		Yes		No		NA 🗹	_		
	Person By Wh Regard	n Notified: nom: ding:	na supervise and the second		Date	eMai	I 🗌 Pho	one 🗌	Fax	In Person			

SC-9 collection Date 13 1135/AT 07/18/12

Signed By

Page 1 of 1

17. Additional remarks:

18. Cooler Information

1

Client Instructions:

1.6

per ch

Good

Cooler No Temp °C Condition Seal Intact Seal No Seal Date

Yes

Client:	ailing Address:		Standard Project Name:	Standard X Rush_SAME DAY TAT Iroject Name: HALL ENVIRONMEN www.hallenvironmental.com							EN' AT	CA	L									
Mailing Ad	dress:	604 W	Pinon St.	1	COPC Scott	9		4901 Hawkins NE - Albuquerque, NM 87109														
		Farmin	gton, NM 87401	Project #:					Tel. 505-345-3975 Fax 505-345-4107													
Phone #:	505-564	-2281						Analysis Request														
Email or Fa	ax#: clam	eman@a	nimasenvironmental.com	Project Manager:																	1	
QA/QC Pac	kage:				C. Lamema	n/E. McNally																
X Standar	rd		Level 4 (Full Validation)			and the second se			2015													
Accreditati	Accreditation:		Sampler: CL/S	SJ				-														
	EDD (Type)			Undice: Selaviole Teterio	A Yes	LINO			YWW													ź
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO	RTEX - R001R		ואטוטאטאטאטאטאטו													Air Bubbles (Y or
7/17/1/	10:25	SOIL	SC-5	1 - MeOH Kit 1 - 4 oz jar	MeOH	70	X	$\langle \rangle$	x													
7/17/17	10:30	SOIL	SC-8	1 - MeOH Kit	MeOH	70	2 ×	; ;	x				1									
7/17/17	11:35	SOIL	SC-9	1 - MeOH Kit 1 - 4 oz jar	MeOH cool	-70	3 ×	; ,	×													
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Date: Time: Relinguished by:		Received by: Date Time MMW 1/17/12 1646			Re W	Remarks: Bill to Conoco Phillips WO # 10398828 Supervisor: Chad Perkins																
Date: Time: Relinduished by: 1/17/17 1819 Mutuald			Inaccived by	no	7/19/17	Area: 3 Ordered by: Bobby Spearman																

Photo #1	
Client: ConocoPhillips	
Project Name: Scott 9	
San Juan County, NM	
Date Photo Taken: November 10, 2016	
BGT GPS and Location: 36.90335, -107.90961	
NE¼ NW¼, Section 17, T31N, R10W	
Taken by: Corwin Lameman, AES	Subject: BGT Sampling, November 2016 Description: Facing E, BGT S-1 sample location.

Photo #2	
Client: ConocoPhillips	
Project Name: Scott 9	
San Juan County, NM	
Date Photo Taken: December 13, 2016	
BGT GPS and Location: 36.90335, -107.90961	
NE¼ NW¼, Section 17, T31N, R10W	
Taken by:	Subject: Release Assessment, December 2016
Corwin Lameman, AES	Description: Facing W, SB-1 through SB-11 sample locations.

Photo #3	DERE
Client:	
ConocoPhillips	Part States m
Project Name:	
Scott 9	
San Juan County, NM	
Date Photo Taken:	
April 26, 2017	
BGT GPS and	
Location:	
50.90555, -107.90901	
NE¼ NW¼, Section	
17, T31N, R10W	
Taken by:	Subject: Initial Excavation, April 2017
Corwin Lameman,	Excavation Dimensions: 30 ft x 37 ft x 18 ft deep
AES	Description: Facing S, initial excavation extents.

Photo #4	
Client: ConocoPhillips	
Project Name: Scott 9	
San Juan County, NM	
Date Photo Taken: May 10, 2017	
BGT GPS and Location: 36.90335, -107.90961	
NE¼ NW¼, Section 17, T31N, R10W	
Taken by:	Subject: Excavation in Progress, May 2017
Corwin Lameman,	Excavation Dimensions: In Progress
AES	Description: Facing W and toward wellhead.

Photo #5	
Client: ConocoPhillips	
Project Name: Scott 9	
San Juan County, NM	
Date Photo Taken: May 10, 2017	
BGT GPS and Location: 36.90335, -107.90961	
NE¼ NW¼, Section 17, T31N, R10W	
Taken by:	Subject: Excavation in Progress, May 2017
Corwin Lameman,	Excavation Dimensions: In Progress
AES	Description: Facing NE, wellhead and construction of ramp access.

Photo #6	
Client: ConocoPhillips	
Project Name: Scott 9	
San Juan County, NM	
Date Photo Taken: July 17, 2017	E C
BGT GPS and Location: 36.90335, -107.90961	
NE¼ NW¼, Section 17, T31N, R10W	
Taken by:	Subject: Completed Excavation, July 2017
Corwin Lameman,	Excavation Dimensions: 32 ft x 40 ft x 38 ft deep
AES	Description: Facing SE, final excavation extents.

Photo #7	
Client: ConocoPhillips	
Project Name: Scott 9	
San Juan County, NM	
Date Photo Taken: July 17, 2017	
BGT GPS and Location: 36.90335, -107.90961	
NE¼ NW¼, Section 17, T31N, R10W	
Taken by:	Subject: Completed Excavation, July 2017
Corwin Lameman,	Excavation Dimensions: 32 ft x 40 ft x 38 ft deep
AES	Description: Facing N, ramp access to completed excavation.