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.

Form C-144 Revised June 6, 2013

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.

1220 S. St. Francis Dr., Sa	anta Fe, NM 875	05	Santa Fe, NM 8750	5 to		e NMOCD District Office.
		Pit	, Below-Grade Ta	nk, or		
	Propos	sed Alternative l	Method Permit or	Closure Pla	n Applica	<u>tion</u>
14259		Closure of a pit, b Modification to an	registration proposed alternative metl elow-grade tank, or proponexisting permit/or regist submitted for an existing	osed alternative ration	method	RVIIIalobos at 9:36 am, Dec 30, 2015 wit, below-grade tank,
Instr	uctions: Plea	se submit one applicatio	n (Form C-144) per individ	lual pit, below-gra	ide tank or alte	rnative request
			perator of liability should op bility to comply with any oth			ce water, ground water or the ty's rules, regulations or ordinances.
Address: PO BOX	4289, Farmin	ny OGRID #: <u>2178</u> gton, NM 87499 VASH FEDERAL 1 (Tan			by 19.15.17	s Exceed Standards outline 7.13 NMAC. Please submit a 141 under 19.15.29 NMAC
API Number: 30-0	45-07099_	OCD Permit Num	ber:			
U/L or Qtr/QtrN	Section		8 N Range 9 W	County: San	ı Juan _	BGT Closed Prior
			ngitude107.761250 <u>"W</u>			to Closure Plan
		e Private Tribal Tı				Approval.
2.						77
Pit: Subsection	F, G or J of 19	9.15.17.11 NMAC				
Temporary: Drill	ing 🔲 Worko	ver				
Permanent Em	ergency 🔲 C	avitation P&A N	Iulti-Well Fluid Manageme	nt Lov	v Chloride Dril	ling Fluid ☐ yes ☐ no
☐ Lined ☐ Unline	d Liner type:	Thicknessmil [LLDPE HDPE P	VC Other		
☐ String-Reinforced						
Liner Seams: We	lded Facto	ry 🗌 Other	Volume:	bbl Dimens	sions: Lx V	Vx D
	- 0 to 200 May 2 1448 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n I of 19.15.17.11 NMAC		This location h	nas two Below	v Grade Tanks. This report is
Tank Construction ma		Metal				
	50 C - 45		sidewalls, liner, 6-inch lift a	and automatic over	rflow shut-off	
0 45		Visible sidewalls only		ma automatic over	illow shat on	
		2 1	PE PVC Other	UNSPECIFIED		
Liner type: Thicknes	8		E LIVE Monie	UNSFECIFIED		
Alternative Meth						
Submittal of an excep	otion request is	required. Exceptions m	iust be submitted to the Sant	a re Environment	iai Bureau offic	e for consideration of approval.
5.			9 -0 0	. 77 7	7 2 T A	
			ermanent pits, temporary pi			
Chain link, six fee institution or church)	Westernament (1997) Children	o strands of barbed wire	at top (Required if located w	vithin 1000 feet of	a permanent re	esidence, school, hospital,

Alternate. Please specify

Four foot height, four strands of barbed wire evenly spaced between one and four feet

6. 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)	
7.	
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	
8.	
Variances and Exceptions: 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.	
9.	
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 acceptance of the compliance of the compliance of the compliance of the compliance of the complex of the com	otable source
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	NA 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	☐ Yes ☑ No
from the ordinary high-water mark).	☐ Yes ☑ No
- Topographic map; Visual inspection (certification) of the proposed site	
 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
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	300000 30000000000000000000000000000000
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

Temporary Pit Non-low chloride drilling fluid	Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
or playa lake (measured from the ordinary high-water mark). 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 Yes No 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 databases search; Visual inspection (certification) of the proposed site Yes No No The proposed site Ye	Temporary Pit Non-low chloride drilling fluid	
Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five bouseholds 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 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 Within 1600 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 Within 500 feet for a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet for a wetland. Us Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet for a wetland. Us Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet for a wet	or playa lake (measured from the ordinary high-water mark).	☐ Yes ☐ No
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 Yes No		☐ 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 Visual inspection (certification) of the proposed site Visual inspection (certification) of the proposed site; Arrial 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 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification of the promit of the	watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;	☐ Yes ☐ No
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 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. NOTOffice of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland, US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Wetland Wildlife Wetland Identification map; Topographic Mallife Wetland Id		☐ Yes ☐ No
lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 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 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site New Yes No Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 documents are attached. Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Stiting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: Nulli-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.11 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Nulli-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.11 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Hydrogeologic Data - based u	Permanent Pit or Multi-Well Fluid Management Pit	
Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No	lake (measured from the ordinary high-water mark).	☐ Yes ☐ No
initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (2) 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 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Paragraph (2) of Subsection C 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 documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.19 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC		☐ Yes ☐ No
OS Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 10. 10	initial application.	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment 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 documents are attached. 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 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Previously Approved Design (attach copy of design) API Number:		☐ Yes ☐ No
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 documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natural 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. 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 Design Plan - based upon the appropriate requirements of 19.15.17.10 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 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	O 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 documents are attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC	Previously Approved Design (attach copy of design) API Number: or Permit Number:	
Previously Approved Design (attach copy of design) API Number: or Permit Number:	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. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. 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 Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC).15.17.9 NMAC
	Previously Approved Design (attach copy of design) API Number: or Permit Number:	

Permanent Pits Permit Application 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 description is the subsection of the following items must be attached to the application.	lo avvisante ana
attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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 Multi-well Fl Alternative Alternative Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method Alternative Closure Method National Na	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ 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 Subsection C of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - 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	attached to the
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	ce material are lease refer to
Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, 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 	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

Page 4 of 6

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	1
2000 0011 (some development of the control of the c	☐ 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 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure public acheck 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 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 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 cannowledge 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	.11 NMAC .15.17.11 NMAC
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 bel	
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	3
OCD Representative Signature: Approval Date:	See Front Page 2016
Title: Compliance Officer OCD Permit Number:	
Title: Compliance Officer OCD Permit Number: 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 1/29/14	g the closure report. ot 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 The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do no section of the form until an approved closure plan has been obtained and the closure activities have been completed.	ot complete this

s true, accurate and complete to the best of my knowledge and
nd conditions specified in the approved closure plan.
1 1
Date: 12/21/15
Date: 127-1717

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: Blanco Wash Federal 1 (North Tank # 1)

API No.: 30-045-07099

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:

COPC 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, COPC 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.

2. COPC 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. COPC 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 COPC 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. COPC will test the soils beneath the below-grade tank to determine whether a release has occurred. COPC 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.

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.

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

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

A release was not 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 COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate 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 of closure was not provided to the Aztec Division office between 72 hours and one week prior to closure.

9. The surface owner shall be notified of COPC'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 found

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. COPC 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 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.

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)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

			Rele	ase Notifica	ation	and Co	rrective A	ction				
						OPERA'	ΓOR		Initia	al Report	\boxtimes	Final Report
	mpany Cond						ystal Walker	25				
	01 East 30 th S						lo.(505) 326-98 e: Gas Well	37				
		U WASH I	redek.				c. Gas Well		12 200000 20000	SERVER CONTRACT SERVER		
Surface Own	ner Federal			Mineral Ov	vner F	ederal			API No	.30-045-07	099	
				LOCA'	TION	OF RE	LEASE					
Unit Letter	Section T	ownship	Range	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County		
				Latitude 36.6		Longitud OF REL						
Type of Relea	ase			11/2.11		Volume of			Volume F	Recovered		
Source of Re						Date and I	Iour of Occurrenc	e	Date and	Hour of Disc	covery	2
Was Immedia	ate Notice Give		Yes 🗌	No 🛛 Not Rec	quired	If YES, To	Whom?					
By Whom?						Date and I						
Was a Water	course Reache	d? □ Y	es 🛛 1	lo		If YES, Vo	lume Impacting t	the Wate	ercourse.			
If a Watercou N/A	ırse was Impac	cted, Describ	e Fully.*									
	ise of Problem vas encountere											
Describe Are N/A	a Affected and	d Cleanup A	ction Tak	en.*								
regulations al public health should their or or the environ	Il operators are or the environ operations have	e required to ment. The a e failed to ac ition, NMO	report an acceptance dequately CD accep	is true and comploid/or file certain re e of a C-141 repor investigate and re tance of a C-141 re	lease no t by the mediate	otifications a NMOCD m contaminat	nd perform correct arked as "Final R on that pose a thr	ctive act eport" d eat to gr	ions for rele loes not rele round water	eases which ieve the oper r, surface wa	may er ator of ter, hu	ndanger f liability man health
Signature:	TAG	n. Pat	A				OIL CON	SERV	ATION	DIVISIO	<u>N</u>	
Printed Name	e: Kelly G. Ro	oberts]	Approved by	Environmental S	pecialis	t:			
Title: Regul	atory Technic	cian			2	Approval Da	te:		Expiration	Date:		
E-mail Addre	1	oberts@cop		5		Conditions o	f Approval:			Attached		



February 27, 2014

Lindsay Dumas
ConocoPhillips
San Juan Business Unit
Office 214-07
5525 Hwy 64
Farmington, New Mexico 87401

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

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

RE: Below Grade Tank Closure Report

Blanco Wash Federal #1

San Juan County, New Mexico

Dear Ms. Dumas:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with two below grade tank (BGT) closures at ConocoPhillips (CoP) Blanco Wash Federal #1, located in San Juan County, New Mexico. Removal of tanks had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name - Blanco Wash Federal #1

Legal Description – SE¼ SW¼, Section 26, T28N, R9W, San Juan County, New Mexico Well Latitude/Longitude – N36.62799 and W107.76091, respectively North BGT Latitude/Longitude – N36.62814 and W107.76122, respectively South BGT Latitude/Longitude – N36.62791 and W107.76122, respectively Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, January 2014

1.2 NMOCD Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), the location was given a ranking score of 20 based on the following factors:

- Depth to Groundwater: A cathodic protection report form dated December 1991 for the Lackey H #709, located 235 feet west and at the same elevation, reported the depth to groundwater as 110 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The tank locations are not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: Blanco Wash is located approximately 190 feet northeast of the location. (20 points)

1.3 BGT Closure Assessment

AES was initially contacted by Dan Rudder, CoP representative, on January 28, 2014, and on January 29, 2014, Deborah Watson and Jesse Sprague of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner of each BGT. Four samples were collected from the perimeter of each BGT footprint, one sample was collected from the center of each BGT footprint, and one sample was composited from the four perimeter samples and one center sample of each BGT.

2.0 Soil Sampling

On January 29, 2014, AES personnel conducted field screening and collected ten soil samples (S-1 through S-10) and two 5-point composites (SC-1 and SC-2) from below the BGTs. Soil samples were collected from approximately 0.5 feet below the former BGTs for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil samples SC-1 and SC-2 were field screened for VOCs and chlorides and submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors 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 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.

2.1.3 Chlorides

Soil samples SC-1 and SC-2 were field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The composite soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil samples SC-1 and SC-2 were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Chloride per USEPA Method 300.0.

In addition, sample SC-2 was laboratory analyzed for:

 TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

North BGT field screening readings for VOCs via OVM ranged from 0.4 ppm in S-2 and SC-1 up to 1.0 ppm in S-3. Field TPH concentrations ranged from less than 20.0 mg/kg in S-1 and S-3 up to 69.4 mg/kg in S-2. The field chloride concentration in SC-1 was 80 mg/kg.

South BGT field screening readings for VOCs via OVM ranged from 0.7 ppm in S-6 and S-8 through S-10, up to 3.8 ppm in S-7. Field TPH concentrations ranged from 141 mg/kg in S-9 up to 2,440 mg/kg in S-7. The field chloride concentration in SC-1 was 80 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
Blanco Wash Federal #1 BGT Closure, January 2014

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action L	evel (NMAC 19.	15.17.13E)		100	250
S-1 (North)	1/29/14	0.5	0.8	<20.0	NA
S-2 (North)	1/29/14	0.5	0.4	69.4	NA
S-3 (North)	1/29/14	0.5	1.0	<20.0	NA
S-4 (North)	1/29/14	0.5	0.5	30.3	NA
S-5 (North)	1/29/14	0.5	0.6	22.5	NA
SC-1 (North)	1/29/14	0.5	0.4	NA	80
S-6 (South)	1/29/14	0.5	0.7	636	NA
S-7 (South)	1/29/14	0.5	3.8	2,440	NA
S-8 (South)	1/29/14	0.5	0.7	512	NA
S-9 (South)	1/29/14	0.5	0.7	141	NA
S-10 (South)	1/29/14	0.5	0.7	388	NA
SC-2 (South)	1/29/14	0.5	1.2	NA	80

NA - not analyzed

For SC-1, laboratory analytical results reported benzene and total BTEX concentrations as less than 0.036 mg/kg and 0.179 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. In SC-2, laboratory analytical results reported benzene and total BTEX concentrations as less than 0.030 mg/kg and 0.151 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 3.0 mg/kg and 74 mg/kg, respectively. The laboratory chloride concentration in SC-2 was less than the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. The laboratory analytical reports are attached.

Table 2.	Soil Laboratory Analytical Results	
Blanco Wash	Federal #1 BGT Closure, January 2014	

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
	NMOCD Act (NMAC 19.1		0.2	50	1	00	250
SC-1 (North)	1/29/14	0.5	<0.036	< 0.179	NA	NA	<30
SC-2 (South)	1/29/14	0.5	<0.030	<0.151	<3.0	74	<30

NA - not analyzed

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. For the north BGT, field TPH concentrations were below the NMOCD action level, with the highest concentration reported in S-2 with 69.4 mg/kg. For the south BGT, field TPH concentrations were reported above the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-7 with 2,440 mg/kg. However, laboratory analytical results for TPH (as GRO/DRO) in SC-2 were reported below the NMOCD action level of 100 mg/kg. Benzene and total BTEX concentrations in SC-1 and SC-2 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 and SC-2 were also below the NMOCD action level of 250 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at Blanco Wash Federal #1.

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

Sincerely,

David J. Reese

Environmental Scientist

Dail g Reme

Elizabeth McNally, P.E.

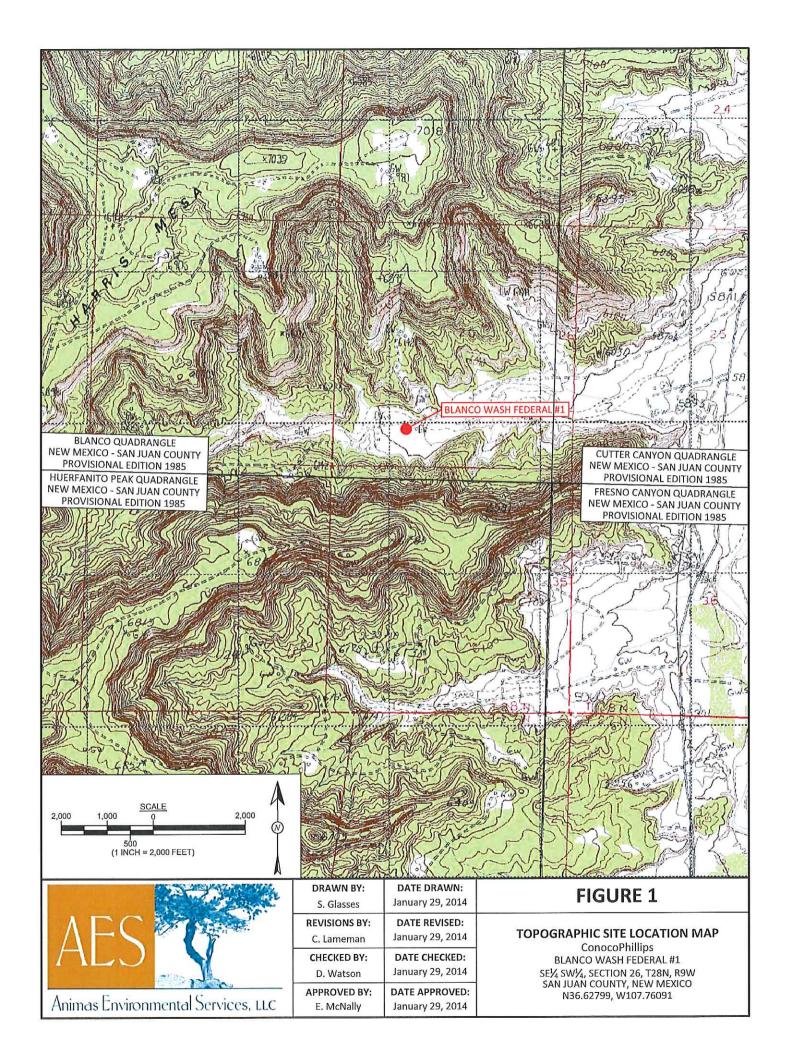
Elizabeth V McNelly

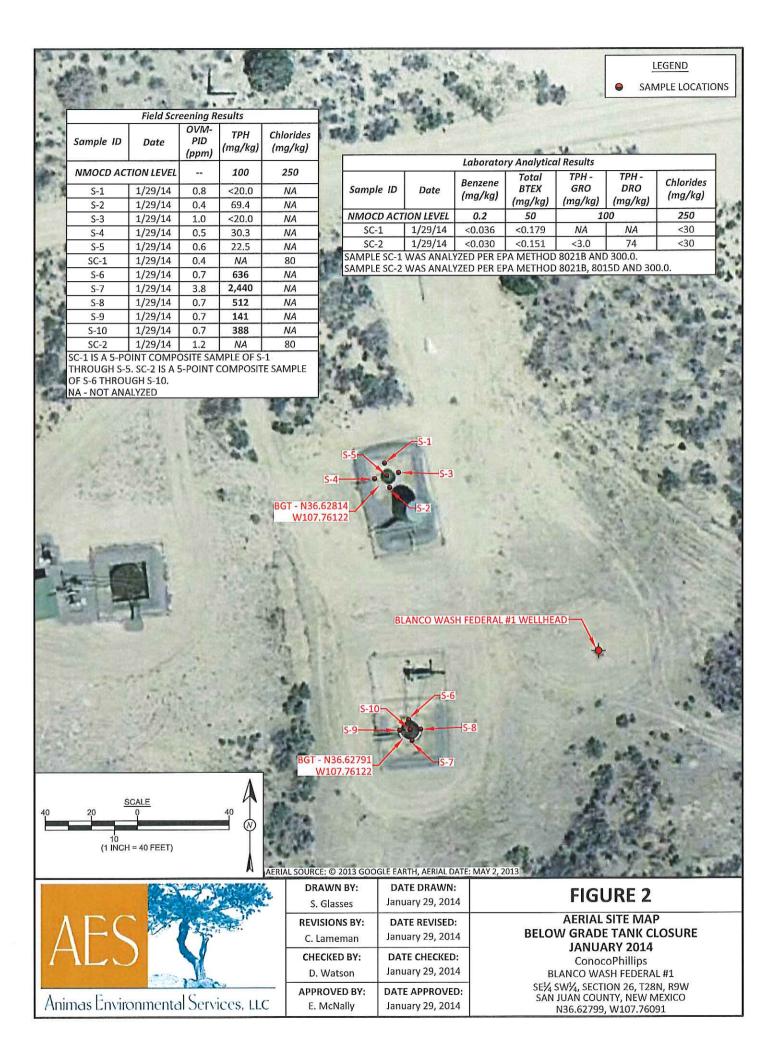
Lindsay Dumas Blanco Wash Federal #1 BGT Closure Report February 27, 2014 Page 6 of 6

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, January 2014 AES Field Screening Report 012914 Hall Analytical Report 1401B76 Hall Analytical Report 1401B77

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AES Field Screening Report



Animas Environmental Services. LLC

www.animasenvironmental.com

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

Durango, Colorado 970-403-3084

Project Location: Blanco Wash Federal #1

Client: ConocoPhillips

Date: 1/29/2014

Matrix: Soil

	Collection	Time of Sample	Sample	OVM	Field	Field TPH Analysis	Field TPH*	TPH PQL		TPH Analysts
Sample ID	Date	Collection	Location	(mdd)	(mg/kg)	Time	(mg/kg)	(mg/kg)	ᅜ	Initials
S-1 (North)	1/29/2014	10:30	North	8.0	NA	11:19	9.48	20.0	П	DAW
S-2 (North)	1/29/2014	10:32	South	0.4	NA	11:22	69.4	20.0	н	DAW
S-3 (North)	1/29/2014	10:34	East	1.0	NA	11:25	14.7	20.0	П	DAW
S-4 (North)	1/29/2014	10:36	West	0.5	NA	11:27	30.3	20.0	П	DAW
S-5 (North)	1/29/2014	10:38	Center	9.0	NA	11:30	22.5	20.0	1	DAW
SC-1 (North)	1/29/2014	10:45	Composite	0.4	80		Not,	Not Analyzed for TPH	Нс	
S-6 (South)	1/29/2014	12:01	North	0.7	NA	12:29	989	20.0	₩	DAW
S-7 (South)	1/29/2014	12:02	South	3.8	NA	12:33	2,440	20.0	Н	DAW
S-8 (South)	1/29/2014	12:03	East	0.7	NA	12:36	512	20.0	Н	DAW
S-9 (South)	1/29/2014	12:04	West	0.7	NA	12:40	141	20.0	П	DAW
S-10 (South)	1/29/2014	12:05	Center	0.7	NA	12:44	388	20.0	1	DAW
SC-2 (South) 1/29/2014	1/29/2014	12:10	Composite	1.2	80		Not,	Not Analyzed for TPH	Нс	

Report Finalized: 1/29/14

Field Chloride - Quantab Chloride Titrators or Drop Count

Titration with Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

*Field TPH concentrations recorded may be below PQL.

Practical Quantitation Limit

PQL

S

Not Detected at the Reporting Limit

Dilution Factor Not Analyzed

NA A



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

February 04, 2014

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

FAX

RE: CoP Blanco Wash Federal #1 South BGT

OrderNo.: 1401B76

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/30/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1401B76

Date Reported: 2/4/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Client Sample ID: SC-1 SC-2 South DAW

Project: CoP Blanco Wash Federal #1 South BGT Collection Date: 1/29/2014 12:10:00 PM

Lab ID: 1401B76-001 Matrix: MEOH (SOIL) Received Date: 1/30/2014 10:00:00 AM

Analyses	Result	RL Q	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	74	10	mg/Kg	1	1/30/2014 3:49:43 PM	11455
Surr: DNOP	83.2	66-131	%REC	1	1/30/2014 3:49:43 PM	11455
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: JMP
Gasoline Range Organics (GRO)	ND	3.0	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Surr: BFB	90.8	74.5-129	%REC	1	1/30/2014 11:31:59 AM	R16396
EPA METHOD 8021B: VOLATILES					Analyst	: JMP
Benzene	ND	0.030	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Toluene	ND	0.030	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Ethylbenzene	ND	0.030	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Xylenes, Total	ND	0.061	mg/Kg	1	1/30/2014 11:31:59 AM	R16396
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	1/30/2014 11:31:59 AM	R16396
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	1/30/2014 12:41:54 PM	11489

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- ND Not Detected at the Reporting Limit Page 1 of 5
 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B76

04-Feb-14

Client:

Animas Environmental

Project:

CoP Blanco Wash Federal #1 South BGT

Sample ID MB-11489

Sample ID LCS-11489

Client ID: LCSS

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 11489

RunNo: 16422

Prep Date: 1/30/2014

Analysis Date: 1/30/2014

SeqNo: 473554

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

Result ND 1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 16422

Prep Date: 1/30/2014

Batch ID: 11489

Analysis Date: 1/30/2014

SeqNo: 473555

Units: mg/Kg

%RPD

Qual

Analyte

PQL SPK value SPK Ref Val %REC

1.5

15.00

SPK value SPK Ref Val %REC LowLimit

91.9

90

HighLimit

%RPD

RPDLimit

Chloride

Result

14

LowLimit

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits J

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Η

Not Detected at the Reporting Limit ND

Sample pH greater than 2 for VOA and TOC only.

Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B76

04-Feb-14

Client:

Animas Environmental

Project: CoP I	Blanco Wash Federal #1 South B	GT										
Sample ID LCS-11455	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 11455	RunNo: 16383										
Prep Date: 1/29/2014	Analysis Date: 1/30/2014	SeqNo: 473042	Units: mg/Kg									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual									
Diesel Range Organics (DRO)	40 10 50.00	0 79.4 60.8	145									
Surr: DNOP	4.2 5.000	84.4 66	131									
Sample ID MB-11441	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics									
Client ID: PBS	Batch ID: 11441	RunNo: 16383										
Prep Date: 1/28/2014	Analysis Date: 1/30/2014	SeqNo: 473349	Units: %REC									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual									
Surr: DNOP	8.5 10.00	84.9 66	131									
Sample ID LCS-11441	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics										
Client ID: LCSS	Batch ID: 11441	RunNo: 16383										
Prep Date: 1/28/2014	Analysis Date: 1/30/2014	SeqNo: 473351	Units: %REC									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual									
Surr: DNOP	3.9 5.000	78.6 66	131									
Sample ID MB-11455	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics									
Client ID: PBS	Batch ID: 11455	RunNo: 16383										
Prep Date: 1/29/2014	Analysis Date: 1/30/2014	SeqNo: 473541	Units: mg/Kg									
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual									
Diesel Range Organics (DRO)	ND 10	dde Italia - Adaisy	Management and the second seco									
Surr: DNOP	8.0 10.00	80.3 66	131									

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B76

04-Feb-14

Client:

Animas Environmental

Project:

CoP Blanco Wash Federal #1 South BGT

Project: COP Bis	anco wasn	rederai	#1 South B											
Sample ID MB-11468 MK	Samp1	уре: МЕ	BLK	TestCode: EPA Method 8015D: Gasoline Range										
Client ID: PBS	Batcl	h ID: R1	6396	F	RunNo: 16396									
Prep Date:	Analysis E	Date: 1/	30/2014	(SeqNo: 4	73261	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	ND	5.0												
Surr: BFB	900		1000		90.4	74.5	129		*****					
Sample ID LCS-11468 MK	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е					
Client ID: LCSS	Batcl	n ID: R1	6396	F	RunNo: 1	6396								
Prep Date:	Analysis D	Date: 1/	30/2014	8	SeqNo: 4	73262	Units: mg/k	(g						
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	74.5	126							
Surr: BFB	970		1000		97.4	74.5	129							

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B76

04-Feb-14

Client:

Animas Environmental

Project:

CoP Blanco Wash Federal #1 South BGT

Sample ID MB-11468 MK	SampT	уре: М	BLK	Tes								
Client ID: PBS	Batcl	n ID: R1	6396	F	RunNo: 1							
Prep Date:	Analysis D	ate: 1/	30/2014	S	SeqNo: 4	73287	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.050										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120					
Sample ID LCS-11468 MK	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID: LCSS	Batcl	n ID: R1	6396	F	RunNo: 1	6396						
Prep Date:	Analysis D	ate: 1/	30/2014	S	SeqNo: 4	73288	Units: mg/k	ζg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.050	1.000	0	104	80	120					
Toluene	1.1	0.050	1.000	0	105	80	120					
Ethylbenzene	1.1	0.050	1.000	0	107	80	120					
Xylenes, Total	3.2	0.10	3.000	0	106	80	120					
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120					

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Received by/date: Logged By: Milchelle Garcia 1/30/2014 10:00:00 AM Thinkly Church	Client Name:	Animas Environm	ental Work Order	Number: 1401				RcptNo:	1
Country Chain of Custody	Received by/date	e:).						<u></u>
Country Chain of Custody	Logged By:	Michelle Garcia	1/30/2014 10:0	MA 00:00		Michel	l Ga	nun	
Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was preservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Citent Instructions: 17. Additional remarks: 18. Cooler Information	Completed By:	Michelle Garcia	1/30/2014 10:	26:34 AM		Michel	l Ga	nuie)	∂ • €
Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No No NA	Reviewed By:	TO	01/30/14						
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3. How was the sample delivered? Log In 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No No NA	1. Custody sea	als intact on sample	bottles?	Yes	[_]	No	[]	Not Present 🗹	
4. Was an attempt made to cool the samples? 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C 6. Sample(s) in proper container(s)? 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? 9. Was proservative added to bottles? 10. VOA vials have zero headspace? 11. Were any sample containers received broken? 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified if all discrepancies with this order? Person Notified: By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information	2. Is Chain of C	Custody complete?		Yes	V	No		Not Present	
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9. Was preservative added to bottles? Yes No No No VOA Vials V. 10. VOA vials have zero headspace? Yes No No No VOA Vials V. 11. Were any sample containers received broken? Yes No W # of preserved bottles checked for pH: (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? Yes W No Adjusted? 14. Is it clear what analyses were requested? Yes W No Checked by: (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client instructions: 17. Additional remarks: 18. Cooler Information	7. Sufficient sa	ample volume for ind	licated test(s)?	Yes	V	No		3 ₹);	
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12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? 14. Is it clear what analyses were requested? 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Wo Counter Work of the Served bottles checked bottles checked for pH: (<2 or >12 unless noted Adjusted? No Adjusted? No Checked by: Checked by: No NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions:	10.VOA vials ha	ave zero headspace	?	Yes	l j	No		No VOA Vials 💘.	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody? Yes V No Adjusted? 14. Is it clear what analyses were requested? Yes V No Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) 16. Was client notified of all discrepancies with this order? Yes No	11. Were any sa	ample containers re	ceived broken?	Yes	L	No		# of preserved	* * *** *** ****
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<u>.</u>			Blanco Wash The	2	The state of the s	ager:	N. J. J.	Macann	se A	emperature.	Preservative Type	NPO!								July	4
ומוודאוטטות ווווס	☐ Standard	_	ر ا ا	Project #:	五	Project Manager:	F	ì	Sampler: On ISE	Sample Ten	Container Type and #	tis Horal								Received by:	Received by:
Chain-of-Custody Record	Client: Arings Emiliament	IIC	East Comarch	NM	5. 564 2281			☐ Level 4 (Full Validation)			Sample Request ID	50-1	•							d by: 2511	deby:
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)	Client:	1	Mailing	J.	Phone #:	email or Fax#:	DA/QCI	Standard	Accreditation □ NELAP	□ EDD (Type)	Date	29-14								Date:	20 Satte



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

February 03, 2014

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

FAX

RE: CoP Blanco Wash Federal #1 North BGT OrderNo.: 1401B77

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/30/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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 Freeman

Laboratory Manager

Ondest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1401B77

Date Reported: 2/3/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

CoP Blanco Wash Federal #1 North BGT Project:

Collection Date: 1/29/2014 10:45:00 AM

Lab ID: 1401B77-001

Received Date: 1/30/2014 10:00:00 AM Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analyst	:: JMP
Benzene	ND	0.036	mg/Kg	1	1/30/2014 12:00:34 PM	R16396
Toluene	ND	0.036	mg/Kg	1	1/30/2014 12:00:34 PM	R16396
Ethylbenzene	ND	0.036	mg/Kg	1	1/30/2014 12:00:34 PM	R16396
Xylenes, Total	ND	0.071	mg/Kg	1	1/30/2014 12:00:34 PM	R16396
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	1/30/2014 12:00:34 PM	R16396
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	ND	30	mg/Kg	20	1/30/2014 12:54:18 PM	11489

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Η Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND

- Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B77

03-Feb-14

Client:

Animas Environmental

Project:

CoP Blanco Wash Federal #1 North BGT

Sample ID MB-11489

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 11489

RunNo: 16422

1/30/2014

Analysis Date: 1/30/2014

SegNo: 473554

Units: mg/Kg

Prep Date:

RPDLimit

Qual

Analyte Chloride

PQL Result 1.5

SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD

ND

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 11489

RunNo: 16422

Units: mg/Kg

Prep Date: 1/30/2014

Sample ID LCS-11489

Analysis Date: 1/30/2014

SeqNo: 473555

HighLimit

Analyte

Result PQL

110

Chloride

SPK value SPK Ref Val

LowLimit

1.5

%REC

14

15.00

91.9

90

%RPD

RPDLimit

Qual

Qualifiers:

S

- E Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits R
- Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- RSD is greater than RSDlimit 0
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit RL
- Analyte detected in the associated Method Blank
- Page 2 of 3

Hall Environmental Analysis Laboratory, Inc.

WO#: 1401B77

03-Feb-14

Client: Project:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Animas Environmental

CoP Blanco Wash Federal #1 North BGT

0.050

0.050

0.10

1.1

1.1

3.2

1.1

1.000

1.000

3.000

1.000

Sample ID MB-11468 MK	SampT	уре: МЕ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch	n ID: R1	6396	F	RunNo: 1	6396								
Prep Date:	Analysis D)ate: 1/	30/2014	(SeqNo: 4	73287	Units: mg/K	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.050												
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120							
Sample ID LCS-11468 MK	SampT	ype: LC	s	Tes										
Client ID: LCSS	Batch	n ID: R1	6396	F	RunNo: 1	6396								
Prep Date:	Date: Analysis Date: 1/30/2014 SeqNo: 473288													
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.0	0.050	1.000	0	104	80	120							

0

0

0

105

107

106

111

80

80

80

80

120

120

120

120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1401B77 Animas Environmental Client Name: Received by/date: 1/30/2014 10:00:00 AM : Logged By: Michelle Garcia 1/30/2014 10:33:03 AM Completed By: Michelle Garcia 01/30/14 Reviewed By: Chain of Custody No 🗌 Not Present V Yes 🗌 1. Custody seals intact on sample bottles? Yes 🗸 No Not Present 2. Is Chain of Custody complete? 3 How was the sample delivered? Courier Log In No . NA 1 4. Was an attempt made to cool the samples? NA [] No 🛄 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗌 Yes 🗸 6. Sample(s) in proper container(s)? No 🗌 7. Sufficient sample volume for indicated test(s)? V 8. Are samples (except VOA and ONG) properly preserved? NA 1 Yes 🗀 No V 9. Was preservative added to bottles? Yes No i No VOA Vials IV 10.VOA vials have zero headspace? Yes [No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 12. Does paperwork match bottle labels? Yes 🗸 (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗸 No L. 13. Are matrices correctly identified on Chain of Custody? No [] 14. Is it clear what analyses were requested? No i Checked by: Yes V 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes [No [16. Was client notified of all discrepancies with this order? Person Notified: Date: eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp ºC Condition Seal Intact Seal No Seal Date

	ANALYSIS LABORATORY		4901 Hawki	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	(O4)	CGas o	HTPH () () () () () () () () () () () () ()	(GFF)	TH + X=TB TH + X=TB TH + S045B Orlean Orlean	× ×						Remarks: 30U to Conscopy.	100) Super Sasho Trugulo Area! 2)	If necessary, supplies submitted to Hall Environmental may be subconfracted to other accredited laborationer. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
ימווי-אוטמוות וווופי	□ Standard 1 Rush Same day	Project Name:	Cop Plenco Wash Federal I BEF	Project #:			D. Watson	S S	emperature 1.5	ner Preservative HEALING							Received by: Date Time Re MALT ML AND A 1/4 USTO 1/4	Received by: Time Co.	itracted to other accredited laboratories. This serves as notice of this pos
Chain-or-Custody Record	Client: Anyma's Environmental	7	F. Comanche	ЛЦ	Phone #: 505 Spy 2281		QA/QC Package: Call Validation	Other	□ EDD (Type)	Matrix Sample Request ID	-29-14 1045 Sov1 Sc-1						Date: Time: Relinquished by:	Sale: Time: Relinquished by:	If necessary, samples submitted to Hall Environmental may be subcoi



