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

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-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.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application	nn
13780 Type of action: ☐ Below grade tank registration ☐ Permit of a pit or proposed alternative method ☐ Modification to an existing permit/or registration ☐ Modification for the proposed alternative method ☐ Modification to an existing permit/or registration ☐ Modification for the proposed alternative method ☐ Modification for the propos	VED obos at 9:55 am, Dec 30, 2015
Closure plan only submitted for an existing permitted or non-permitted pit, l or proposed alternative method	pelow-grade tank,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative description of the state o	- Commence of the Commence of
ease be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface we vironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's	
Operator: Burlington Resources Oil & Gas Company, LP OGRID #:14538 Address:PO BOX 4289, Farmington, NM 87499 Facility or well name: Maddox Waller 101S API Number:30-045-31444 OCD Permit Number:	BGT CLOSED PRIOR TO CLOSURE PLAN APPROVAL
U/L or Qtr/Qtr C Section 14 Township 32N Range 11W County: San Ju Center of Proposed Design: Latitude 36.989637 N Longitude -107.962796 NAD: ☐1927 ☐ 1983 Surface Owner: ☐ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment	lan_
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 F Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x W x	4
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: 120	N A
. 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 resident institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	ce, school, hospital,

Alternate. Please specify

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)	
Monthly inspections (if netting or screening is not physically leasible)	
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	
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. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accepmaterial are provided below.</i> Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	Yes No
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
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 application.	☐ 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	☐ 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 database search; Visual inspection (certification) of the proposed site	☐ 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
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	☐ Yes ☐ No
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
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc 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 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 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 15.17.9 NMAC
11. 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 doc	cuments 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 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:	15.17.9 NMAC

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 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 Liner Specifications 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	documents are
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 F Alternative Proposed Closure Method: 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	luid Management Pit
14.	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be 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
15.	
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. F. 19.15.17.10 NMAC for guidance.	rce material are Please 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
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. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
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	

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 	☐ 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 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. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.5.17.13 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	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 beli	ef.
Name (Print): Title:	
Signature: Date:	
e-mail address:	
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: Approval Date: 7/11/2	2016
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 not	
section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date:July 9, 2013	
☐ Closure Completion Date:July 9, 2013	
	op systems only)

2. Operator Closure Certification:	
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.	1/31-14/0 0
Name (Print): Larissa Farrell Title: Regulatory Technician	
Signature: Date: 12-22-15	_
e-mail address: Larissa,L.Farrell@cop.com Telephone: (505) 326-9504	

Burlington Resources Oil & Gas Company San Juan Basin: New Mexico Assets

Below Grade Tank Closure Report

Lease Name: Maddox Waller 101S

API No.: 30-045-31444

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 Requirements:

1. Prior to initiating any BGT closure, except in the case of an emergency, BR will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or one week before closure and a copy of this notification will be included in the closure report. In the case of an emergency, the surface owner will be notified as soon as practical.

The closure process notification to the landowner was not found.

- 2. Notice of closure will be given to the District Division office between 72 hours and one week of the scheduled closure via email or phone. The notification of closure will include the following:
 - a. Operators Name
 - b. Well Name and API Number
 - c. Location

Notification of closure was not provided to the Aztec Division office between 72 hours and one week prior to closure.

3. All liquids will be removed from the BGT following cessation of operation. Produced water will be disposed of at one of COP's approved Salt Water Disposal facilities or at a District Division approved facility.

All recovered liquids were disposed of at an approved SWD facility or an approved District Division facility within 60 days of cessation of operation.

4. Solids and sludge's will be shoveled and/or vacuumed out for disposal at one of the District Division approved facilities, depending on the proximity of the BGT site: Envirotech Land Farm (Permit #NM-01-011), JFJ Land Farm % Industrial Ecosystems Inc. (Permit #NM-01-0010B), and Basin Disposal (Permit #NM-01-005).

Any sludge or soil required to be removed to facilitate closure was transported to Envirotech Land Farm (Permit # NM-01-011) and/or JFJ Landfarm % IEI (Permit# NM-01-0010B).

5. BR will obtain prior approval from District Division to dispose, recycle, reuse, or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report. Steel materials will be recycled or reused as approved by the District Division. Fiberglass tanks will be empty, cut up or shredded, and EPA cleaned for disposal as solid waste. Liner materials will be cleaned without soils or contaminated material for disposal as solid waste. Fiberglass tanks and liner materials will meet the conditions of 19.15.35 NMAC. Disposal will be at a licensed disposal facility, presently San Juan County Landfill operated by Waste Management under NMED Permit SWM-052426.

The below-grade tank was disposed of in a division-approved manner. The liner was cleaned per 19.15.35.8.C(1)(m) NMAC and disposed of at the San Juan County Regional Landfill located on CR 3100.

6. Any equipment associated with the BGT that is no longer required for some other purpose, following the closure, will be removed.

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

- 7. Following removal of the tank and any liner material, BR will test the soils beneath the BGT as follows:
 - a. At a minimum, a five-point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination.
 - b. The laboratory sample shall be analyzed for the constituents listed in Table I of 19.15.17.13.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Table I of 19.15.17.13 and the results are attached.

8. If the District Division and/or BR determine there is a release, BR will comply with 19.15.17.13.C.3b.

A release was not determined for the above referenced well.

9. Upon completion of the tank removal, pursuant to 19.15.17.13.C.3c, if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19.15.17.13 NMAC, the excavation will be backfilled with non-waste earthen material compacted and covered with a minimum of one foot top soil or background thickness whichever is greater and to existing grade. The surface will be re-contoured to match the native grade and to prevent ponding.

The tank removal area passed all requirements of Table I of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material which included at least one foot of suitable material to establish vegetation at the site.

10. For those portions of the former BGT area no longer required for production activities, BR will seed the disturbed area the first favorable growing season after the BGT is covered. Seeding will be accomplished via drilling on the contour whenever practical, or by other District Division-approved methods. BR will notify the District Division when reclamation and re-vegetation is complete.

Reclamation of the BGT shall be considered complete when:

- Vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels.
- Total percent plant cover of at least 70% of pre-disturbance levels (Excluding noxious weeds) OR
- Pursuant to 19.15.17.13.H.5d BR will comply with obligations imposed by other applicable federal or tribal agencies in which there re-vegetation and reclamation requirements provide equal or better protection of fresh water, human health and the environment.

Provision 10 will be accomplished pursuant to 19.15.17.H.5d and notification will be submitted upon completion.

11. For those portions of the former BGT area required for production activities, reseeding will be done at well abandonment, and following the procedure noted above.

The former BGT area is required for production activities and reseeding will be completed upon plug and abandonment of Maddox Waller 1A.

Closure Report:

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using District Division Form C-144. The Report will include the following:

- Proof of Closure Notice (surface owner and District Division) (Attached)
- Backfilling & cover installation (See Report)
- Confirmation Sampling Analytical Results (Attached)
- Application Rate & Seeding techniques (See Report)
- Photo Documentation of Reclamation (Attached)



Mary Alice Maxwell
REFS / PTRRC – San Juan Business Unit
Property Tax, Real Estate, ROW & Claims
3401 East 30th Street
Farmington, NM 87402
Wk: (505) 599-4082
Facsimile: (505) 324-6136

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

July 12, 2012

John & Faye Waller, Estate Attn; Stacey L Johnson 28415 Avenida Condesa Cathedral City, CA 92234

Subject:

Plug and Abandon

Maddox Waller 101S

NW Section 14, T32N, R11W San Juan County, New Mexico

Dear Landowner:

ConocoPhillips Company is hereby notifying you of its intent to plug and abandon the above-referenced well.

Pursuant to the terms and conditions of the Surface Use Agreement. Completion of the planned operations, the Operator will reclaim and restore the disturbed areas as close to their original condition as reasonably practicable, complying to BLM Gold Book Standards. A Bureau of Land Management recommended reseeding mixture will be used for the well site, unless otherwise specified by the landowner.

If you have any concerns regarding this work or would like to specify a seed mixture, please notify Nathan Coats (505) 419-8347 within five (5) days of receiving this letter.

Sincerely,

Mary Alice Maxwell
Mary Alice Maxwell
PTRRC Associate

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	catio	n and Co	orrective A	ction				
						OPERA'	ГOR		☐ Initi	al Report	\boxtimes	Final Report
Name of Co		urlington Re	esources	Oil & Gas		Contact Crystal Walker						
		th St, Farmin		1			No.(505) 326-98	837				
Facility Nat	ne: Madd	ox Waller 1	01S			Facility Typ	e: Gas Well					
Surface Ow	ner Priva	te		Mineral (Owner	Private			API No	0.30-045-3	1444	
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/W	est Line	County		
				Latitude <u>36</u>	.98963	37 Longitud	e - <u>107.962796</u>					
				NAT	TURE	OF REL	EASE					
Type of Rele						Volume of				Recovered		
Source of Re	lease					Date and Hour of Occurrence Date and Hour of Discovery						
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required					If YES, To	Whom?	L.					
By Whom?						Date and I						
Was a Water	course Read		Yes 🛛	No		If YES, Vo	olume Impacting t	the Wate	rcourse.			
If a Watercou	If a Watercourse was Impacted, Describe Fully.* N/A											
Describe Cause of Problem and Remedial Action Taken.* No release was encountered during the BGT Closure.												
Describe Area Affected and Cleanup Action Taken.* N/A												
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.												
Signature: June June					OIL CONSERVATION DIVISION							
Printed Name						Approved by	Environmental S	pecialist:	:			
Title: Regul	atory Tech	nician				Approval Da	te:	E	Expiration	Date:		
E-mail Addre		sa.L.Farrell@	cop.com	9504		Conditions of	f Approval:			Attached		
Attach Addi					!					10		



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

September 9, 2013

Crystal Tafoya ConocoPhillips San Juan Business Unit Office 214-05 5525 Hwy 64 Farmington, New Mexico 87401

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

RE: Below Grade Tank Closure Report

Maddox Waller #101S San Juan County, New Mexico

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) Maddox Waller #101S, located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Maddox Waller #101S
Legal Description – NE¼ NW¼, Section 14, T32N, R11W, San Juan County, New Mexico
Well Latitude/Longitude – N36.98991 and W107.96294, respectively
BGT Latitude/Longitude – N36.98972 and W107.96288, respectively
Land Jurisdiction – Private (Fee)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, July 2013

1.2 Depth to Groundwater Determination (NMAC 19.15.17.13 Table 1)

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-103 Form dated May 2004 for the Maddox Waller #101S reported the depth to groundwater as greater than 100 feet below ground surface (bgs). AES personnel further assessed the depth to water determination using topographical

interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet bgs.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Ashcroft, CoP representative, on July 9, 2013, and on the same day, Deborah Watson and Jesse Christopherson of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

2.0 Soil Sampling

On July 9, 2013, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for VOCs and chloride and was also 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 sample SC-1 was 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 sample SC-1 collected for laboratory analysis was placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil sample SC-1 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 2.3 ppm in SC-1 up to 9.3 ppm in S-3. Field TPH concentrations ranged from 46.8 mg/kg in S-5 up to 86.4 mg/kg in S-3. The field chloride concentration in SC-1 was 40 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
Maddox Waller #101S BGT Closure, July 2013

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)	Field Chlorides (mg/kg)
	D Action Level .17.13 Table 1)		22	2,500	600*
S-1	7/9/13	0.5	3.4	68.0	NA
S-2	7/9/13	0.5	5.7	62.4	NA
S-3	7/9/13	0.5	9.3	86.4	NA
S-4	7/9/13	0.5	5.1	80.8	NA
S-5	7/9/13	0.5	2.5	46.8	NA
SC-1	7/9/13	0.5	2.3	NA	40

^{*}Action Level for chlorides is based on reclamation standard as outlined within NMAC 19.15.17.13H(2); NA - Not Analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 5.0 mg/kg and 9.9 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2, and laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results Maddox Waller #101S BGT Closure, July 2013

			Total	TPH-	TPH-	
Date	Depth	Benzene	BTEX	GRO	DRO	Chlorides
Sampled	(ft)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
VMOCD Acti	on Level	10	50	1.	200	600*
19.15.17.13	Table 1)	10	50	1,0	000	600
7/9/13	0.5	< 0.050	<0.25	<5.0	<9.9	<30
	Sampled NMOCD Acti 19.15.17.13	Sampled (ft) NMOCD Action Level 19.15.17.13 Table 1)	Sampled (ft) (mg/kg) NMOCD Action Level 19.15.17.13 Table 1)	Date Depth Benzene BTEX Sampled (ft) (mg/kg) (mg/kg) NMOCD Action Level 19.15.17.13 Table 1)	Date Depth Benzene BTEX GRO Sampled (ft) (mg/kg) (mg/kg) (mg/kg) NMOCD Action Level 19.15.17.13 Table 1)	Date Depth Benzene BTEX GRO DRO Sampled (ft) (mg/kg) (mg/kg) (mg/kg) (mg/kg) NMOCD Action Level 19.15.17.13 Table 1) 50 1,000

^{*}Action Level for chlorides is based on reclamation standard as outlined within NMAC 19.15.17.13 H (2); NA - Not Analyzed

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13 Table 1. Field TPH concentrations were below the NMOCD action level of 2,500 mg/kg, with the highest concentration reported in S-3 with 86.4 mg/kg. Laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported below the NMOCD action level of 1,000 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of 600 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at Maddox Waller #101S.

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 Reese

Environmental Scientist

Daril & Reme

Crystal Tafoya Maddox Waller #101S BGT Closure Report September 9, 2013 Page 5 of 5

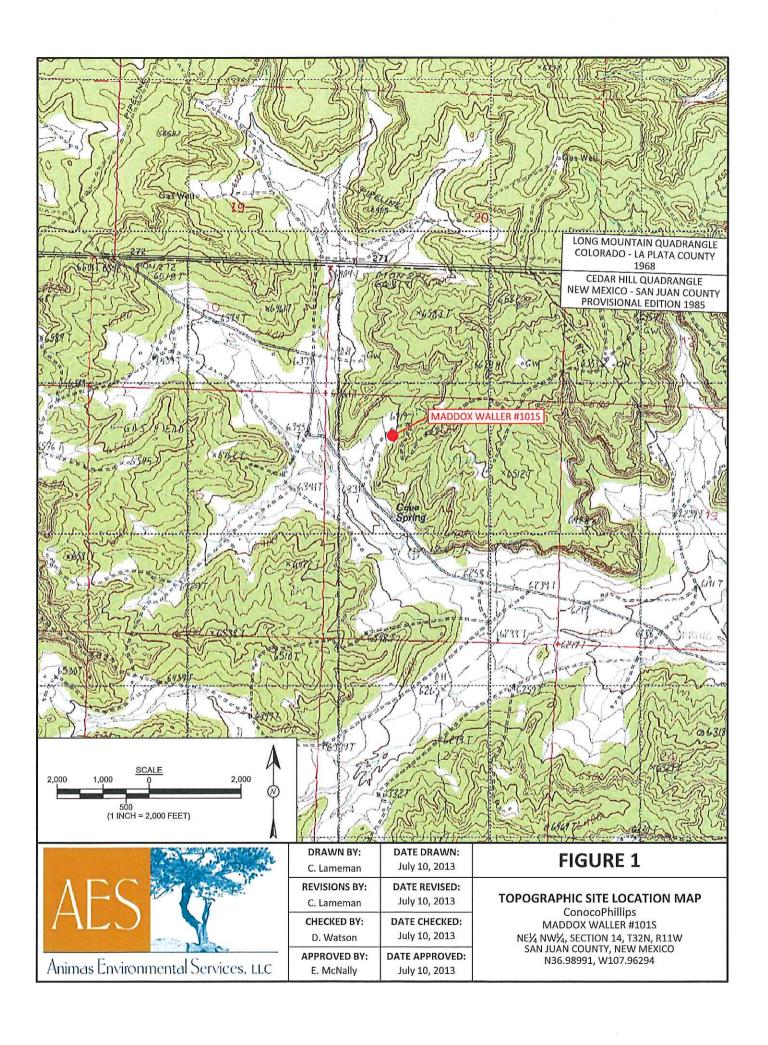
Elizabeth V MeNelly

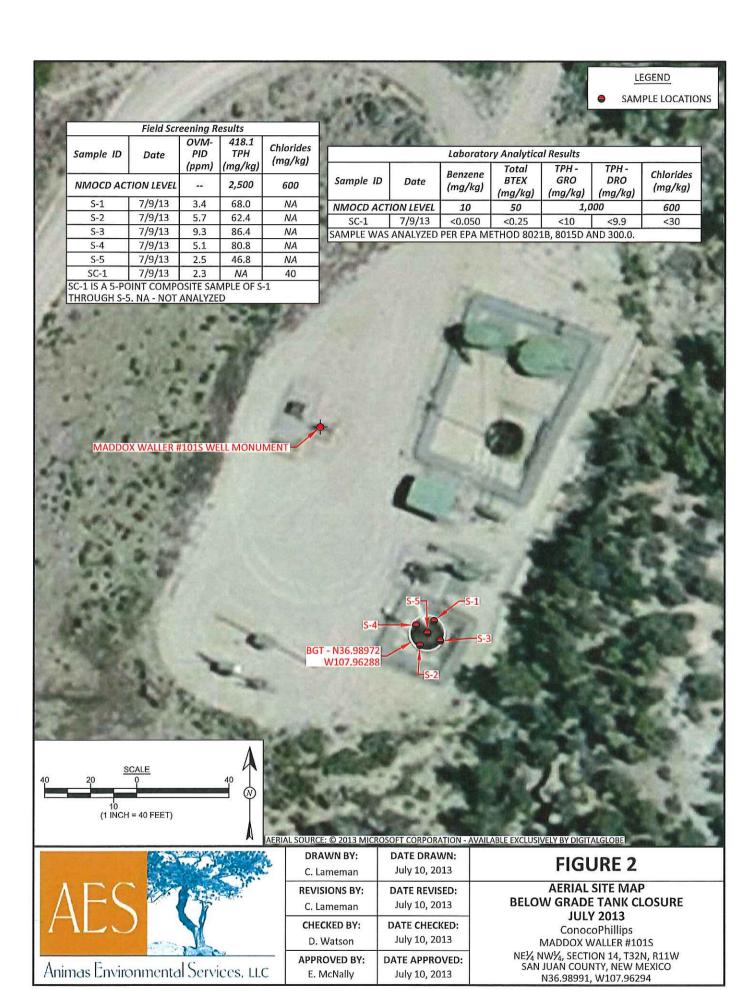
Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, July 2013 AES Field Screening Report 070913 Hall Analytical Report 1307385

 $R:\Animas\ 2000\Dropbox\2013\ Projects\ConocoPhillips\Maddox\ Waller\ \#101S\Maddox\ Waller\ \#101S\ BGT\ Closure\ Report\ 090913.docx$





AES Field Screening Report

Client: ConocoPhillips

Project Location: Maddox Waller #101S

Date: 7/9/2013

Matrix: Soil



www.animasenvironmental.com

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

Durango, Colorado 970-403-3084

		Time of			Field	Field TPH				TPH
	Collection	Sample	Sample	MVO	Chloride	Analysis	Field TPH*	TPH PQL		Analysts
Sample ID	Date	Collection	Location	(ppm)	(mg/kg)	Time	(mg/kg)	(mg/kg)	DF	Initials
S-1	7/9/2013	11:25	North	3.4	NA	12:02	68.0	20.0	1	DAW
S-2	7/9/2013	11:28	South	5.7	NA	12:05	62.4	20.0	1	DAW
S-3	7/9/2013	11:30	East	9.3	NA	12:08	86.4	20.0	Ţ	DAW
S-4	7/9/2013	11:34	West	5.1	NA	12:11	80.8	20.0	1	DAW
S-5	7/9/2013	11:37	Center	2.5	NA	12:14	46.8	20.0	1	DAW
SC-1	7/9/2013	11:40	Composite	2.3	40		Not +	Not Analyzed for TPH.	Ή.	

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.

Dilution Factor Not Analyzed

Not Detected at the Reporting Limit

Practical Quantitation Limit

PQL S ΑN Report Finalized: 07/09/13



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

July 11, 2013

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

FAX:

RE: CoP Maddox Waller #101S

OrderNo.: 1307385

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/10/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1307385

Date Reported: 7/11/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: CoP Maddox Waller #101S Collection Date: 7/9/2013 11:40:00 AM

1307385-001 Lab ID:

Matrix: MEOH (SOIL)

Received Date: 7/10/2013 10:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/10/2013 11:51:59 AM	8268
Surr: DNOP	81.6	63-147	%REC	1	7/10/2013 11:51:59 AM	8268
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/10/2013 11:23:24 AM	R11830
Surr: BFB	100	80-120	%REC	1	7/10/2013 11:23:24 AM	R11830
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.050	mg/Kg	1	7/10/2013 11:23:24 AM	R11830
Toluene	ND	0.050	mg/Kg	1	7/10/2013 11:23:24 AM	R11830
Ethylbenzene	ND	0.050	mg/Kg	1	7/10/2013 11:23:24 AM	R11830
Xylenes, Total	ND	0.10	mg/Kg	1	7/10/2013 11:23:24 AM	R11830
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	7/10/2013 11:23:24 AM	R11830
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	7/10/2013 12:07:11 PM	8309

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- RPD 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
- Not Detected at the Reporting Limit
 Page 1 of 5
 Sample pH greater than 2 for VOA and TOC only.
- Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307385

11-Jul-13

Client:

Animas Environmental

Project:

CoP Maddox Waller #101S

Sample ID: MB-8309

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 8309

RunNo: 11834

Prep Date: 7/10/2013 Analysis Date: 7/10/2013

SeqNo: 336422

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

Result PQL ND

Sample ID: LCS-8309

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Batch ID: 8309

PQL

1.5

1.5

RunNo: 11834

Units: mg/Kg

Prep Date: 7/10/2013

Analysis Date: 7/10/2013

SeqNo: 336423 SPK value SPK Ref Val

%REC LowLimit HighLimit

%RPD **RPDLimit**

Qual

Analyte

0

110

Chloride

14

15.00

93.9

90

Qualifiers:

Value exceeds Maximum Contaminant Level.

Ε Value above quantitation range

Analyte detected below quantitation limits J

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Sample pH greater than 2 for VOA and TOC only. P

Reporting Detection Limit

Page 2 of 5

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307385

11-Jul-13

Client:

Animas Environmental

Project:	CoP M	laddox Waller #101S	
Sample ID: M	B-8268	SampType: MBLK	
Client ID: PE	BS	Batch ID: 8268	

Prep Date: 7/8/2013 Analysis Date: 7/10/2013 SeqNo: 336350 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result PQL LowLimit 10

RunNo: 11826

TestCode: EPA Method 8015D: Diesel Range Organics

ND Diesel Range Organics (DRO) Surr: DNOP 7.9 10.00 78.8 63 147

Sample ID: LCS-8268 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 8268 RunNo: 11826 SeqNo: 336384 Prep Date: 7/8/2013 Analysis Date: 7/10/2013 Units: mg/Kg %REC HighLimit %RPD **RPDLimit** Result PQL SPK value SPK Ref Val LowLimit Qual Analyte Diesel Range Organics (DRO) 39 10 50.00 0 78.2 128 77.1 Surr: DNOP 3.8 5.000 76.7 63 147

TestCode: EPA Method 8015D: Diesel Range Organics Sample ID: 1307372-005AMS SampType: MS Client ID: BatchQC Batch ID: 8268 RunNo: 11842 Prep Date: 7/8/2013 SeqNo: 337064 Analysis Date: 7/11/2013 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 39 10 0 77.0 61.3 138 Diesel Range Organics (DRO) 50.05 Surr: DNOP 3.8 5.005 76.7 63 147

TestCode: EPA Method 8015D: Diesel Range Organics Sample ID: 1307372-005AMSD SampType: MSD Client ID: BatchQC Batch ID: 8268 RunNo: 11842 SeqNo: 337065 Prep Date: 7/8/2013 Analysis Date: 7/11/2013 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 2.18 20 Diesel Range Organics (DRO) 39 10 50.05 0 78.7 61.3 138 Surr: DNOP 3.8 5.005 75.4 63 147 0

TestCode: EPA Method 8015D: Diesel Range Organics Sample ID: MB-8310 SampType: MBLK Client ID: PBS Batch ID: 8310 RunNo: 11842 Prep Date: 7/10/2013 Analysis Date: 7/11/2013 SeqNo: 337066 Units: %REC Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 8.0 Surr: DNOP 10.00 80.2 63 147

TestCode: EPA Method 8015D: Diesel Range Organics Sample ID: LCS-8310 SampType: LCS Client ID: LCSS Batch ID: 8310 RunNo: 11842 SeaNo: 337069 Units: %REC Prep Date: 7/10/2013 Analysis Date: 7/11/2013 Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 3.9 5.000 77 4 63 147

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ε
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R

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

Page 3 of 5

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307385

11-Jul-13

Client:

Animas Environmental

Project:

CoP Maddox Waller #101S

Sample ID: 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

Client ID:

PBS

Batch ID: R11830

PQL

5.0

RunNo: 11830

Prep Date:

Analysis Date: 7/10/2013

Analyte

Result

SeqNo: 336884

Units: mg/Kg

120

ND

SPK value SPK Ref Val %REC

Gasoline Range Organics (GRO)

HighLimit

RPDLimit

Qual

Surr: BFB

950

1000

95 1

80

Sample ID: 2.5UG GRO LCS

SampType: LCS

RunNo: 11830

TestCode: EPA Method 8015D: Gasoline Range

%RPD

%RPD

Client ID: Prep Date:

LCSS

Batch ID: R11830

PQL

5.0

Analyte

Analysis Date: 7/10/2013

SeqNo: 336885

Units: mg/Kg

Gasoline Range Organics (GRO)

Result 25 1000

14

640

630

SPK value

1000

16.00

640.2

640.2

SPK Ref Val %REC 25.00 98.9

LowLimit HighLimit 62.6 80

RPDLimit

Qual

Surr: BFB

Sample ID: 1307385-001AMS

SampType: MS

TestCode: EPA Method 8015D: Gasoline Range

102

136

120

Client ID: SC-1

Batch ID: R11830

RunNo: 11830

Prep Date:

Analysis Date: 7/10/2013

SeqNo: 336887

Units: mg/Kg

156

120

Result PQL

SPK value SPK Ref Val %REC 0

0

LowLimit HighLimit 89.3 76

80

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

SampType: MSD

100

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

SC-1

Gasoline Range Organics (GRO)

Sample ID: 1307385-001AMSD

Batch ID: R11830

5.0

RunNo: 11830

Prep Date:

Analysis Date: 7/10/2013

SeqNo: 336888

98.4

Units: mg/Kg

HighLimit

Analyte

Surr: BFB

Result **PQL** SPK value SPK Ref Val 14 5.0 16.00

%REC 87.3

76 80

LowLimit

156 2.26 120 0

%RPD

RPDLimit Qual 17.7 0

Qualifiers:

R

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits

RPD outside accepted recovery limits

0 RSD is greater than RSDlimit

- B
- 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

Η

Analyte detected in the associated Method Blank

Page 4 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

3.0

1.1

0.10

3.000

1.000

WO#:

1307385

11-Jul-13

Client:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Animas Environmental

Project: CoP Maddox Waller #101S

Sample ID: 5ML RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: PBS	Batch ID: R11830 Analysis Date: 7/10/2013			F	RunNo: 11830							
Prep Date:	Analysis D	Date: 7/	10/2013	5	SeqNo: 3	36948	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	1.1		1.000		110	80	120					
Sample ID: 100NG BTEX LCS	SampT	ype: LC	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch	n ID: R1	1830	E	RunNo: 11830							
Prep Date:	Analysis D	Date: 7/	10/2013	8	SeqNo: 3	36958	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.050	1.000	0	101	80	120					
Toluene	1.0	0.050	1.000	0	99.8	80	120					
Ethylbenzene	1.0 0.050 1.000			0	99.9	80	120					

Sample ID: 1307385-001AMS	Sampl	Гуре: МS	3	Tes	tCode: El	PA Method	8021B: Volat	iles	·	
Client ID: SC-1	Batch ID: R11830 RunNo: 11830									
Prep Date:	Analysis E	Date: 7/	10/2013	8	SeqNo: 3	36975	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.61	0.050	0.6402	0	94.7	67.3	145			
Toluene	0.60	0.050	0.6402	0.01012	91.9	66.8	144			
Ethylbenzene	0.60	0.050	0.6402	0	93.8	61.9	153			
Xylenes, Total	1.8	0.10	1.921	0.01652	95.0	65.8	149			
Surr: 4-Bromofluorobenzene	0.70		0.6402		109	80	120			

0

101

113

80

80

120

120

Sample ID: 1307385-001AMSD) SampTy	/pe: MS	iD.	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: SC-1	RunNo: 11830									
Prep Date:	Analysis Da	ate: 71'	10/2013	S	SeqNo: 3	36984	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.59	0.050	0.6402	0	92.2	67.3	145	2.71	20	
Toluene	0.58	0.050	0.6402	0.01012	89.5	66.8	144	2.60	20	
Ethylbenzene	0.59	0.050	0.6402	0	91.7	61.9	153	2.20	20	
Xylenes, Total	1.8	0.10	1.921	0.01652	93.4	65.8	149	1.68	20	
Surr: 4-Bromofluorobenzene	0.70		0.6402		109	80	120	0	0	

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

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

Client Name:	Animas Environmental	Work Order Number	er: 13073	85	-	RcptNo:	1
Received by/da	te:	Bloks				* *****	
Logged By:	Lindsay Mangin	7/10/2013 10:05:00	AM		Jumby Houge	•	P)
Completed By:	Lindsay Mangin	7/10/2013 10:11:02	ΑM		Simily Alygo		
Reviewed By:	± 0	07/10/13					
Chain of Cus				-			
1. Custody sea	als intact on sample bottles?		Yes		No 🗆	Not Present ☑	
2. Is Chain of	Custody complete?		Yes	V	No 🗌	Not Present	
3. How was th	e sample delivered?		Cour	<u>ier</u>			
<u>Log In</u>							
4. Was an att	empt made to cool the samp	es?	Yes	V	No 🗆	na 🗆	
5. Were all sa	imples received at a tempera	ture of >0° C to 6.0°C	Yes	V	No 🗆	, NA	
6. Sample(s)	in proper container(s)?		Yes	V	No 🗆		8
7. Sufficient sa	ample volume for indicated to	est(s)?	Yes	V	No 🗆		
19	s (except VOA and ONG) pro		Yes	V	No 🗆		
A CONTRACTOR OF THE CONTRACTOR	rvative added to bottles?		Yes		No 🗸	· NA 🗆	
10.VOA vials h	nave zero headspace?		Yes		No 🗆	No VOA Vials	
11, Were any s	sample containers received b	roken?	Yes		No 🗹	# af	
	1979					# of preserved bottles checked	
	rwork match bottle labels? epancles on chain of custody	·	Yes		No 🗆	for pH:	or >12 unless noted)
1.00 a 100 a	eparicies on chain of custody es correctly identified on Chai		Yes	V	No □	Adjusted?	
	hat analyses were requested		Yes	✓	No 🗆		
	olding times able to be met?		Yes	✓	No 🗆	Checked by:	
(If no, notify	y customer for authorization.)				,	×.	
Special Hand	dling (if applicable)						
	notified of all discrepancies w	ith this order?	Yes		No 🗆	NA 🗹	
Perso	on Notified:	Date:			,	iii iii ii i	
By W	/hom:	Via:	" ☐ eMa	ıil 🔲	Phone Fax	In Person	
Rega	ırding:	·	domestical.		****		
Client	t Instructions:	A A A A A A A A A A A A A A A A A A A	TO BE SEED OF THE			10002	
17. Additional	remarks:		@ #8			10	
18. Cooler Inf Cooler I	No Temp C Condition	Seal Intact Seal No Yes	Seal Da	ate	Signed By		

	HALL ENVIRONMENTAL ANALYSIS LABORATORY	nental.com	- Albuquerque, NM 87109	Fax 505-345-4107	Request		bcB ₁ g	(A cobir	Λογν ΟΛ- · (\	8081 Pestic S260B (VOA S270 (Semi- S-0-00 CA	*							usur. Benale	act crdo: C200 ordered M: Brouadshoveft.
	HALL ENV	www.hallenvironmental.com	4901 Hawkins NE - Albuque	Tel. 505-345-3975 Fax	Analysis Request	(O)	(Gas or	HQT +	BE 4 od 4 or or tals	TTEX + MT TEX + MT TPH 8015B TPH (Metho EDB (Metho EDB (8310 CRA 8 Me D:77P								hip:	Loo: 10338340 Arta: 2 Suprusir: Shellim Markayo
Turn-Around Time:	□ Standard KRush Soure day	Project Name:	Cop Maddox Waller + 1013	Project #:	*	Project Manager:	D. Watson	Sampler: 1) Watton	Samplestemberange	Container Preservative HEAL No.	Musit 15th Musit20)	,					Dode These	20	y; Date Time
Chain-of-Custody Record	Client: Animas Environmental		manche	どり	Phone #: 50층 56나 2281	email or Fax#:	QA/QC Package: A Standard □ Level 4 (Full Validation)	n Other	□ EDD (Type)	Date Time Matrix Sample Request ID	7-9-13 1140 SOUL SC-1						F	Q,	Date: Time: Relinquished by:





