Form C-144 Revised June 6, 2013

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District III
1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

Alternate. Please specify

Form C-144

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

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

	*	
	Pit, Below-Grade Tank, or	
	Proposed Alternative Method Permit or Closure Plan Appli	cation
14274	Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitte or proposed alternative method	RECEIVED By kcollins at 7:37 am, Mar 09, 2016 d pit, below-grade tank,
	Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or	
Please be advise	d that approval of this request does not relieve the operator of liability should operations result in pollution of su or does approval relieve the operator of its responsibility to comply with any other applicable governmental auth	arface water, ground water or the
environment. N	or does approval relieve the operator of its responsibility to comply with any other applicable governmental auti-	ionty's rules, regulations of ordinances.
	Burlington Resources Oil & Gas Company, LP OGRID #: 14538	
1.50	PO BOX 4289, Farmington, NM 87499	
Facility or v	vell name: Howell D 4	
	r:30-045-10139 OCD Permit Number:	
	Otr G Section 33 Township 31 N Range 8 W County: San 3	
	oposed Design: Latitude36.867013 <u>•N</u> Longitude1007.677438_• <u>W</u> NAD: □1927 ⊠ 1983	
1	ner: X Federal State Private Tribal Trust or Indian Allotment	
2,	Section 2 to 19 to	
0.00	bsection F, G or J of 19.15.17.11 NMAC	
	☐ Drilling ☐ Workover	
Permane	nt ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride I	Orilling Fluid 🗌 yes 🔲 no
	Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
☐ String-R	einforced	
Liner Seams	s: Welded Factory Other Volume: bbl Dimensions: L	x W x D
3.	rade tank: Subsection I of 19.15.17.11 NMAC	
	120 bbl Type of fluid: Produced Water	
-	ruction material: Metal Trouble William Metal	
\$20,000 CH. \$10,000 CH.	ary containment with leak detection \(\subseteq Visible sidewalls, liner, 6-inch lift and automatic overflow shut-or	off
- 55	sidewalls and liner Visible sidewalls only Other	
Liner type:		
Liner type.	THICKNESS 12 MIN LIDID LANGUE STATE	
	tive Method: f an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau of	office for consideration of approval.
5.		
150	ubsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)	
And the second of the second o	nk, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent	nt residence, school, hospital,
institution of	t height, four strands of barbed wire evenly spaced between one and four feet	

Page 1 of 6

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.	
<u>Variances and Exceptions:</u> 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 accep	table 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 ☐ NA
- 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.	NA NA
NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	_
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No
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	
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
30 C C C C C C C C C C C C C C C C C C C	
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	☐ Yes ☐ No
Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks)	
- FEMA map	
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).	
- 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;	☐ Yes ☒ No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	
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.)	☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site	1
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	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock	Yes No
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	and the state of t

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						
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						
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 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	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:						

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 datached. 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 Preeboard 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	ocuments are
13.	
<u>Proposed Closure</u> : 19.15.17.13 NMAC <u>Instructions</u> : 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 Flu	iid Management Pit
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	
	by a process mean
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	niacnea 10 ine
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	
Lucturations Each siting oritoria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour	ce material are lease refer to
provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P 19.15.17.10 NMAC for guidance.	icase rejer to
	□ Va-□ N-
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	☐ Yes ☐ No ☐ NA
- 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	☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa	☐ Yes ☐ No
lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	
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	☐ Yes ☐ No
at the time of initial application. - 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	XXXX
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. Please indicate, 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 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) 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							
17. Operator Application Certification:	Laf						
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:							
OCD Approval: Permit Application (including closure plan) Closure Plan (only) CD Conditions (see attachment)							
OCD Approval: Permit Application (including closure plan) Closure Plan (only) CD Conditions (see attachment)	5-2016						
OCD Approval: Permit Application (including closure plan) Closure Plan (only) COD Conditions (see attachment)	5-2016						
OCD Approval: Permit Application (including closure plan) Closure Plan (only) CD Conditions (see attachment) OCD Representative Signature:	ng the closure report.						
OCD Approval: Permit Application (including closure plan) Closure Plan (only) CD Conditions (see attachment) OCD Representative Signature: Title: Environmental Specialist OCD Permit Number: 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: 10/3/15	ng the closure report.						
OCD Approval: Permit Application (including closure plan) Closure Plan (only) CD Conditions (see attachment) OCD Representative Signature:	ng the closure report. ot complete this						

22. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure r belief. I also certify that the closure complies with all applicable closure requirements.	eport is true, accurate and complete to the best of my knowledge and nents and conditions specified in the approved closure plan.
	atory Technician
Signature: Janusa Junell	Date: 2-17-14
e-mail address: <u>Larissa.L.Farrell@cop.com</u> Telephone: <u>(505) 326-9504</u>	

Burlington Resources Oil & Gas Company, LP San Juan Basin Below Grade Tank Closure Report

Lease Name: Howell D 4 API No.: 30-045-10139

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:

1. BR 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, BR 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. BR 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. BR 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 BR 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. BR will test the soils beneath the below-grade tank to determine whether a release has occurred. BR 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

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

A release was determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then BR 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 was not found.

9. The surface owner shall be notified of BR'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. BR 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 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

Release Notification and Corrective Action							
OPERATOR Initial Report Final Report							
Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya	-					
Address 3401 East 30 th St, Farmington, NM	Telephone No.(505) 326-9837 Facility Type: Gas Well	/					
Facility Name: Howell D 4	, J1	T 77245	20 DIE 4040	10			
Surface Owner BLM Mineral Owner	BLM (SF-078387)	API No.	30-045-1013	39			
LOCATIO	ON OF RELEASE						
Unit Letter Section Township Range Feet from the Original Section Section Section Range Feet from the North Section Section Section Range Feet from the North Section Section Range Feet from the North Section Section Section Range Feet from the North Section Range Feet from the Range Fe	h/South Line Feet from the Feet from the	East/West Line East	County San Juan				
Latitude <u>36.856</u>	9 Longitude <u>107.67645</u>						
NATUR	E OF RELEASE			iie iia			
Type of Release Produced Fluids	Volume of Release	Volume R		una.			
Source of Release Below Grade Tank	Date and Hour of Occurrence	Date and I	Hour of Disco	very			
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Require	If YES, To Whom?						
By Whom?	Date and Hour						
Was a Watercourse Reached?	If YES, Volume Impacting the	e Watercourse.					
☐ Yes ⊠ No							
If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.*			·				
Below Grade Tank Closure Activities Describe Area Affected and Cleanup Action Taken.*				d. 14			
The regulatory standard for closure at this site was determined to be 1000 ppm. Soil samples were taken and then transported to the lab and analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.							
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.							
Assessed a service of the service of	OIL CONSI	ERVATION	DIVISION	1			
Signature:	Approved by Environmental Spe	ecialist:					
Printed Name: Crystal Tafoya							
	Approval Date:	Expiration 1	Date:				
Title: Field Environmental Specialist E-mail Address: crystal.tafoya@conocophillips.com	Approval Date: Conditions of Approval:	LEXPITATION	Attached	7			
Date: 1/22/2013 Phone: (505) 326-9837							

January 14, 2013

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



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

> Durango, Colorado 970-403-3084

RE:

Below Grade Tank Closure Report

Howell D #4

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) Howell D #4, located in Sán Juan County, New Mexico. Tank removal had been completed by CoP ontractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Howell D #4

Legal Description – SW½ NE½, Section 33, T31N, R8W, San Juan County, New Mexico

Well Latitude/Longitude – N36.85713 and W107.67723, respectively

BGT Latitude/Longitude – N36.85701 and W107.67744, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, November 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a cathodic protection data sheet dated May 1991for the Howell D #4 reported the depth to groundwater as 110 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery

Crystal Tafoya Howell D #4 BGT Closure Report January 14, 2013 Page 2 of 5

Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking 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. A stock pond is located approximately 250 feet northeast of the location. Based on this information, the location was assessed a ranking score of 10.

1.3 BGT Closure Assessment

AES was initially contacted by Jess Henson, CoP representative, on November 29, 2012, and on November 30, 2012, Deborah Watson and Zach Trujillo of AES met with a CoP representative at 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 November 30, 2012, 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 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 8260B;
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 2.0 ppm in S-5 up to 5.9 ppm in S-2. Field TPH concentrations ranged from 26.6 mg/kg in S-4 and S-5 up to 30.1 mg/kg in S-1. 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 Howell D #4 BGT Closure. November 2012

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	11/30/12	0.5	5.4	30.1	NA
\$-2	11/30/12	0.5	5.9	27.8	NA
S-3	11/30/12	0.5	4.8	28.9	NA
S-4	11/30/12	0.5	3.1	26.6	NA
S-5	11/30/12	0.5	2.0	26.6	NA
SC-1	11/30/12	0.5	3.7	NA	40

NA - not analyzed

Crystal Tafoya Howell D #4 BGT Closure Report January 14, 2013 Page 4 of 5

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. The laboratory chloride concentration was 32 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results Howell D #4 BGT Closure, November 2012

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13E)		3E) 0.2 50	50	100		250	
SC-1	11/30/12	0.5	<0.050	<0.25	NA	NA	32

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. Field TPH concentrations were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-1 with 30.1 mg/kg. Chloride concentrations in SC-1 were below the NMOCD action level of 250 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 0.2 mg/kg and 50 mg/kg, respectively. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at the Howell D #4.

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

Sincerely,

Landrea Cupps

Environmental Scientist

Landre R. lupps

Elizabeth McNally, P.E.

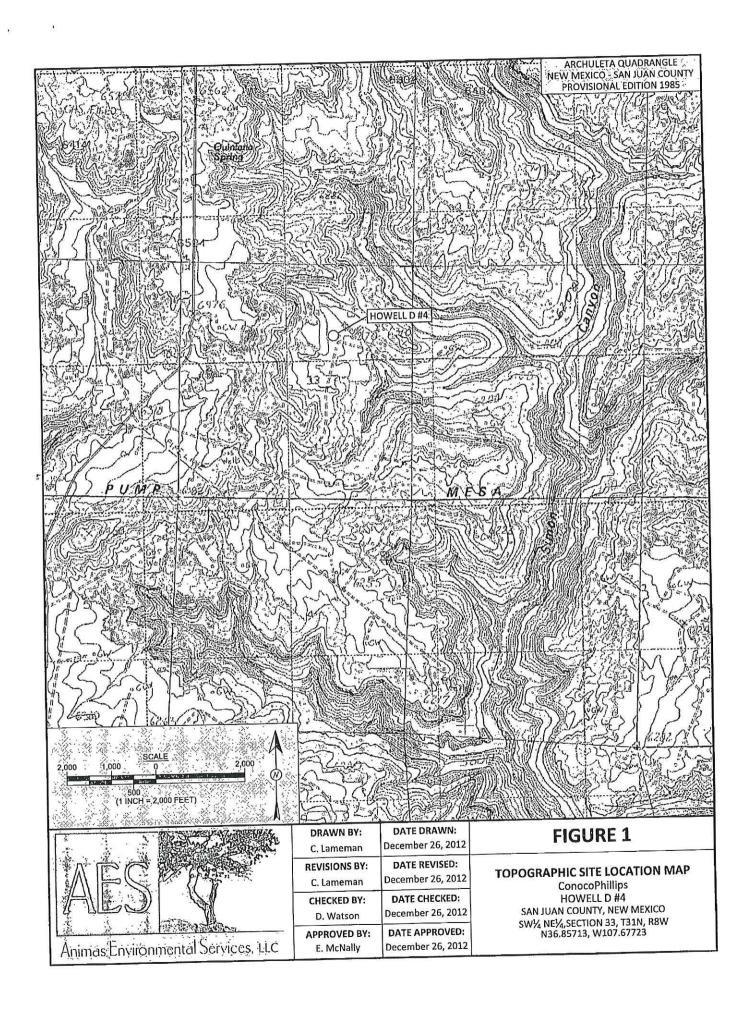
Elizabeth V McNolly

Crystal Tafoya Howell D #4 BGT Closure Report January 14, 2013 Page 5 of 5

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, November 2012 AES Field Screening Report 113012 Hall Analytical Report 1212002

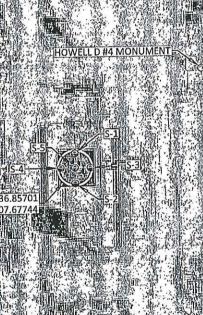
R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Howell D #4\Howell D #4 BGT Closure Report 011413.docx

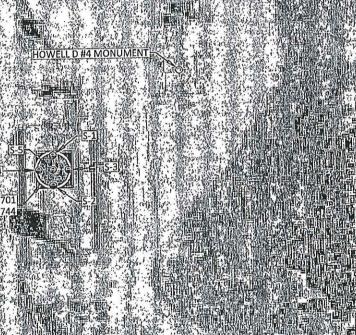




3870YA 8070Y	Field Scr	eening Re	esults 🦟	
Sample ID	Date	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD AC	TION LEVEL	3 / 3	100	250
S-1	11/30/12	%5.4 %	⊗30.1%	NA
>>√S-2 %	11/30/12	5.9	27.8 %	NA NA
\$%/.S-3	11/30/12	4.8	₹28.9 %	NA *
%% S-4	11/30/12	3.1	≈26.6 %	NA S
S-5	11/30/12	≥ 2.0 ∴	26.6	
///SC-1	11/30/12	⊗3.7.	≫NA ‰	× 40 ×

1	* XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	s:3809~650#		A	ANKA 1 4 15 16 16 16	4005 WA Vancos	. 01 11 25 27 25 2
	CXX.272	300	Benzene	Total BTEX	TPH - GRO	DRO	Chlorides
ű	3.7272.382	33771 200	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	NMOCD ACTI	ON LEVEL	220.2	50 300	30 X X 10	00	250
l,	SC-1	11/30/12	%<0.050	≪0.25 %	∴ NA 🎌	NA V	32







Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	December 26, 2012
REVISIONS BY:	DATE REVISED:
C. Lameman	December 26, 2012
CHECKED BY:	DATE CHECKED:
D. Watson	December 26, 2012
APPROVED BY:	DATE APPROVED:
E. McNally	December 26, 2012

FIGURE 2

AERIAL SITE MAP BELOW GRADE TANK CLOSURE NOVEMBER 2012

ConocoPhillips HOWELL D #4 SAN JUAN COUNTY, NEW MEXICO SW¼ NE¼, SECTION 33, T31N, R8W N36.85713, W107.67723

AES Field Screening Report

Client: ConocoPhillips

Project Location: Howell D #4

Date: 11/30/2012

Matrix: Soil



Animas Environmental Services, ELC www.animasenvironmental.com

Durango, Colorado 970-405-5274

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

										i
		Time of			Field	Field TPH				H
	Collection	Sample	Sample	OVM	Chloride	Analysis	Field TPH*	TPH PQL		Analysts
Sample ID		Collection	Location	(mdd)	(mg/kg)	Time	(mg/kg)	(mg/kg)	PF	Initials
2 2	7	l.	droN	5.4	AA	14:03	30.1	20.0	1	DAW
7.	11/30/2017		d _T IOO	2 9	AZ	14:05	27.8	20.0	Ħ	DAW
2-5	71/20/7017		2000	2						20 CONT. 1980
I	11/30/2012	13:26	East	4.8	NA	14:08	28.9	20.0	Н	DAW
7						7	ישני	0.00	Υ-	DAW
S-4	11/30/2012	13:28	West	3.1	NA	14:10	70.0	20.07	1	
J.	11/30/2012	13:30	Center	2.0	NA	14:12	26.6	20.0	н	DAW
5	- 1								i	•
27-1	11/30/2012	13:35	Composite	3.7	40		Not	Not Analyzed for IPH.	7.E.	
1) 1										

Practical Quantitation Limit PQL

Not Detected at the Reporting Limit

2

Not Analyzed

*Field TPH concentrations recorded may be below PQL. Dilution Factor

Analyst:

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Total Petroleum Hydrocarbons - USEPA 418.1

Silver Nitrate

Report Finalized: 11/30/12



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

December 05, 2012

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

FAX

RE: CoP Howell D #4

OrderNo.: 1212002

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/1/2012 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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. 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.

Sincerely,

Andy Freeman

Laboratory Manager

Ondiel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1212002

Date Reported: 12/5/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-1

Lab ID: 1212002-001

Project: CoP Howell D #4

Collection Date: 11/30/2012 1:35:00 PM

Received Date: 12/1/2012 12:45:00 PM Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	32	30	mg/Kg	20	12/3/2012 10:43:19 AM
EPA METHOD 8260B: VOLATILES	SHORTLIST		S. SANTESONAPE		Analyst: RAA
	ND ND	0.050	mg/Kg	1	12/3/2012 12:57:00 PM
Benzene Toluene	ND	0.050	mg/Kg	1	12/3/2012 12:57:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/3/2012 12:57:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	12/3/2012 12:57:00 PM
Surr: 1,2-Dichloroethane-d4	92.4	70-130	%REC	1	12/3/2012 12:57:00 PM
Surr: 4-Bromofluorobenzene	89.0	70-130	%REC	1	12/3/2012 12:57:00 PM
Surr: Dibromofluoromethane	88.6	70-130	%REC	1	12/3/2012 12:57:00 PM
Surr: Toluene-d8	104	70-130	%REC	1	12/3/2012 12:57:00 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits 1 of 3

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212002

05-Dec-12

Client:

Animas Environmental Services

Project:	CoP Howe	ell D #4									
Sample ID	MB-5068	SampTy	pe: ME	LK	Test	iCode: EP	A Method	300.0: Anions			
Client ID:	PBS	Batch	ID: 500	38	R	RunNo: 72	249				
Prep Date:	12/3/2012	Analysis Da	ite: 12	/3/2012	8	SeqNo: 21	10178	Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-5068	SampTy	rpe: LC	S	Tes	tCode: EF	PA Method	300.0: Anions			
Client ID:	LCSS	Batch	ID: 50	68	F	RunNo: 72	249				
Prep Date:	12/3/2012	Analysis Da	ate: 12	2/3/2012	5	SeqNo: 2	10179	Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	97.1	90	110			
Sample ID	1212002-001BMS	SampT	ype: MS	6	Tes	tCode: El	PA Method	300.0: Anions			
Client ID:	SC-1	Batch	ID: 50	68	F	RunNo: 7	249				
Prep Date:	12/3/2012	Analysis D	ate: 1	2/3/2012		SeqNo: 2	10182	Units: mg/Kg	j		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	3	43	30		31.81	73.6	64.4	117		8	
Sample ID	1212002-001BMSI	D SampT	уре: М	SD	Tes	stCode: E	PA Method	300.0: Anions			
Client ID:	SC-1		ID: 50	68		RunNo: 7	249				
Prep Date	VCENTRY 38	Analysis D	ate: 1	2/3/2012		SeqNo: 2	10183	Units: mg/K	g		
		957					1007 SS 80 CON	10000 10 000 9 00		pppl ! . !!	Overl

Client ID:	SC-1		ID: 50 6	68	R	tunNo: 7	249					
Prep Date:	V286-30	Analysis D	ate: 12	2/3/2012	S	SeqNo: 2	10183	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride		42	30	15.00	31.81	65.1	64.4	117	3.04	20		

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 2 of 3

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1212002

05-Dec-12

Client:

Animas Environmental Services

Client: An	mas environmei	nai sei	VICES							
Project: Co	P Howell D #4									
Sample ID 5ml-rb	SampT	уре: МВ	ILK	Test	Code: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batch	1D: R7	239	R	unNo: 7	239				
Prep Date:	Analysis D	ate: 12	/3/2012	S	eqNo: 2	10264	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			-515 4	н.	400			
Surr: 1,2-Dichloroethane-da	0.47		0.5000		94.4	70	130			
Surr: 4-Bromofluorobenzen	e 0.46		0.5000		91.8	70	130			
Surr: Dibromofluoromethan	e 0.47		0.5000		94.3	70	130			
Surr: Toluene-d8	0.48		0.5000		95.7	70	130			
Sample ID 100ng lcs	SampT	ype: LC	S	Tes	tCode: E	PA Method	8260B: Vola	tiles Shor	List	
Client ID: LCSS	Batcl	h ID: R7	239	F	RunNo: 7	239				
Prep Date:	Analysis D	Date: 12	2/3/2012	9	SeqNo: 2	10265	Units: mg/k	⟨g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.9	70 ع	130			
Toluene	1.0	0.050	1.000	0	99.8	80	120			
Surr: 1,2-Dichloroethane-d	4 0.47		0.5000		94.4	70	130			
Surr: 4-Bromofluorobenzer	ne 0.48		0.5000		95.0	70	130			
Surr: Dibromofluoromethan	ne 0.46		0.5000		91.7	70	130			
Surr: Toluene-d8	0.48		0.5000		95.4	70	130			

Qualifiers:

Page 3 of 3

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits

ENVIRONMENTAL ANALYSIS LABORATORY

rium environmentas Anatysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

EL: 505-345-3975 FAX: 505-345-410, Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental	Vork Order Number: 1212002
Received by/date: #1 12/01/12	
Logged By: Michelle Garcia 12/1/2012 12:45:00 PN	Mines Garia
Completed By: Michelle Garcia 12/1/2012 1:17:22 PM	Mitalle Garrie
Reviewed By: A 12/03/12	
Chain of Custody	
1. Were seals intact?	Yes No Not Present 🗹
2. Is Chain of Custody complete?	Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered?	Courier
<u>Log In</u>	
4. Coolers are present? (see 19. for cooler specific Information)	Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples?	Yes V No NA NA
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑ No □ NA □
7. Sample(s) In proper container(s)?	Yes 🗹 No 🗌
8. Sufficient sample volume for indicated test(s)?	Yes ☑ No □
Are samples (except VOA and ONG) properly preserved?	Yes ☑ No □
10. Was preservative added to bottles?	Yes No 🗹 NA 🗆
	Yes ☐ No ☐ No VOA Vials 🗹
11. VOA vlals have zero headspace?	Yes No W
12. Were any sample containers received broken?	Yes V No #of preserved
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	for pH:
14. Are matrices correctly Identified on Chain of Custody?	Yes ☑ No ☐ (<2 or >12 unless noted)
15. Is it clear what analyses were requested?	Yes V No Adjusted?
16. Were all holding times able to be met?	Yes ☑ No ☐ Checked by:
(If no, notify customer for authorization.)	Cilibrida by.
Special Handling (if applicable) 17. Was client notified of all discrepancies with this order?	Yes No 🗹 NA 🗀
	99995 55
Person Notified: Date:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
by ventile.	
Regarding: Client Instructions:	
18. Additional remarks:	
19. Cooler Information	number 1: Count But 1
Cooler No Temp °C Condition Seal Intact Seal No 1.0 Good Yes	Seal Date Signed By
[1]1.0 [0000 [165]	

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	TEX + MTBE + TPH (Gas only) TPH (Method 8015B (Gas/Diesel) TPH (Method 418.1) EDB (Method 504.1) RCRA 8 Metals Anions (F,Cl,NO ₃₁ NO ₂₁ PO ₄₁ SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA)				Litrical Date Time Remarks: Bull to Concast hilling Suprivisor; Having Dee Mark Date Time Aria: 5 Ordered by - Jess Hensing Ordered by - Jess Hensing to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be dearly notated on the analytical report.
Tum-Around Time: Standard Krush Suvne day. Project Name: CoP Howell D#4 Project #:	Bu 3 A 1 1 #	Walter Math			Received by: Multing Date Time Date
nain-of-Custody Record Auras Envivonmental Severe UC ddress: 624 F Comanche webm NM 8740 1	Phone #: 2015 5p.4 67.81 email or Fax#: QAQC Package: Accreditation I EDD (Type) Date Time Matrix Sample Request ID		8		Date: Time: Relinquished by. With Mith. Date: Time: Relinquished by. 120 71.7 23



