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.

12761 45-08844	Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application	RECEIVED By OCD 3-4-15
	Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration Closure plan only submitted for an existing permitted or non-permitted pit, below or proposed alternative method	v-grade tank,
	Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative i	request
	hat approval of this request does not relieve the operator of liability should operations result in pollution of surface water, does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules,	
1. Operator: Burl	ington Resources OGRID #: 14538	
	PO BOX 4289, Farmington, NM 87499	11
8	name: Kattler 1	
1500	004508844 OCD Permit Number:	
U/L or Qtr/Qtr	C (NENW) Section 2 Township 29N Range 12W County: San Juan	
Center of Propos	sed Design: Latitude <u>36.75908000</u> <u>N</u> Longitude <u>-107.07066000</u> <u>W</u> NAD: <u>1927</u> 1983	
Surface Owner:	☐ Federal ☐ State ☒ Private ☐ Tribal Trust or Indian Allotment	
2. Pit: Subse	ction F, G or J of 19.15.17.11 NMAC	
	Drilling Workover Closed Prior to Closure Plan App	oroval
* *	☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid	yes no
	Inlined Liner type: Thicknessmil	
☐ String-Reinf	Forced	
Liner Seams:	Welded Factory Other Volume: bbl Dimensions: Lx	W x D
Volume: Tank Construct ☐ Secondary ☐ Visible side	e tank: Subsection I of 19.15.17.11 NMAC 120	ise submit a 5.29 NMAC
4.		
Alternative		
Submittal of an	exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for cons	sideration of approval.

s. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)					
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, limited and a strange of the school of the sch	nospital,				
institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet					
Alternate. Please specify					
6.					
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) ☐ Screen ☐ Netting ☐ Other					
Monthly inspections (If netting or screening is not physically feasible)					
7.					
Signs: Subsection C of 19.15.17.11 NMAC					
12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers					
Signed in compliance with 19.15.16.8 NMAC					
8. Variances and Exceptions:					
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.					
Please check a box if one or more of the following is requested, if not leave blank: Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.					
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.					
9.					
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept	ntable source				
material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.					
Conoval siting					
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 ☐ NA				
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☑ NA				
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ 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				
Within an unstable area. (Does not apply to below grade tanks)	☐ Yes ☐ No				
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 					
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	163 24 110				
	☐ 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	L 165 M 110				
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,	Yes No				
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					

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 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).	☐ Yes ☐ No
- Topographic map; Visual inspection (certification) of the proposed site Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ 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.	☐ Yes ☐ No
- 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 Naturations: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC	O NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	<u> </u>
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	
Treviously Approved Design (attach copy of design)	

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	ocuments are				
 □ 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 H₂S, Prevention Plan □ Emergency Response Plan □ Oil Field Waste Stream Characterization □ Monitoring and Inspection Plan □ Erosion Control Plan 					
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC					
13. Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.					
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Fl Alternative Proposed Closure Method: Waste Excavation and Removal	uid Management Pit				
 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 					
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	attached to the				
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.					
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 N					
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 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 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
16. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure p 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 19.15.17.13 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 can Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	7.11 NMAC 9.15.17.11 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 be	
Name (Print): Title:	¥
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) COCD Conditions (see attachment) OCD Representative Signature: Approval Date:	ee front page Apr 24, 2015
Title: Environmental Specialst 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 submittin 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: 7/17/12	
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.	ot complete this

22. Operator Closure Certification:	
I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure require	
Name (Print): Kenny Davis	Title: Staff Regulatory Technician
Signature:	Date: <u>12/3/14</u>
c-mail address: kenny.r.davis@conocophillips.com	Telephone:505-599-4045

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

(Without Reclamation)

Lease Name: Kattler 1

API No .:

30-045-08844

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.
- 2. The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.
- 3. 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.

4. 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.

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.

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

7. 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).

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 300.1	250

8. 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.

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.

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

Notification is missing due to employee turnovers. ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.

11. 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 not found. COPC was not aware that the original notification sent at the time of Permitting was not the only closure notification required.

ConocoPhillips has reviewed our internal processes and has updated them to include the required 72 hour notification.

12. 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 will be 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.

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

14. 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.

- 15. 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)

Closure Documentation was not submitted within the 60 day requirement due to employee turnovers. ConocoPhillips has reviewed our internal processes and has updated them to ensure closure documentation is submitted with the 60 day time frame.



January 31, 2013

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

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

> Durango, Colorado 970-403-3084

RE:

Below Grade Tank Closure, Release, and Excavation Report

Kattler #1

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 and final excavation of chloride contaminated soils at the ConocoPhillips (CoP) Kattler #1, located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location. The final excavation was completed by CoP contractors while AES was on location on July 20, 2012.

1.0 Site Information

1.1 Location

Site Name – Kattler #1
Legal Description - NE¼ NW¼, Section 2, T29N, R12W, San Juan County, New Mexico Well Latitude/Longitude - N36.75951 and W108.07107, respectively BGT Latitude/Longitude - N36.75972 and W108.07124, respectively Land Jurisdiction - Private Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, July 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no prior ranking information was located. 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.

Crystal Tafoya Kattler #1 BGT Closure, Release, and Excavation Report January 31, 2013 Page 2 of 6

Additionally, Google Earth and the New Mexico Tech Petroleum Recovery 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 below ground surface (bgs). A tributary to the wash in Hargis Arroyo is located approximately 270 feet north of the location. Based on this information, the location was assessed a ranking score of 10.

1.3 Assessments

AES was initially contacted by Jess Henson, CoP representative, on July 17, 2012, and on July 18, 2012, Deborah Watson and Nathan Willis of AES met with Jess Henson 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. Sample locations are shown on Figure 2.

On July 20, 2012, AES personnel returned to the site to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation samples (SC-1 through SC-5) of the walls and base of the excavation. A composite sample (SC-6) was composited from the four walls and base of the excavation. The final excavation was approximately 24 feet by 20 feet by 4 feet grading to 5.5 feet in depth. Sample locations and excavation extents are shown on Figure 3.

2.0 Soil Sampling

On July 18, 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), total petroleum hydrocarbon (TPH), and chlorides. Soil sample SC-1 was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

On July 20, 2012, AES personnel conducted field screening and collected five 5-point composites (SC-1 through SC-5) of the walls and base of the excavation for field screening of chlorides. One samples, SC-6, was composited from SC-1 through SC-5 and submitted for confirmation laboratory analysis.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample collected on July 18, 2012, 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 (SC-1 through SC-5, July 18) 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

All soil samples were field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The composite soil samples collected for laboratory analysis were placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil sample SC-1 (July 18) was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8260B; and
- Chloride per USEPA Method 300.0.

Note sample SC-6 (July 20) was only analyzed for chloride per USEPA 300.0.

2.3 Field Screening and Laboratory Analytical Results

On July 18, 2012, field screening results for VOCs via OVM showed concentrations ranging from 4.5 ppm in S-4 up to 11.7 ppm in S-3. Field TPH concentrations ranged from 55.3 mg/kg in S-1 up to 68.7 mg/kg in S-4. Field chloride concentrations were between 80 and 240 mg/kg.

On July 20, 2012, final excavation field screening results for chlorides showed concentrations ranging from 100 mg/kg in SC-2 through SC-4 up to 180 mg/kg in SC-1

and SC-5. Results are included below in Table 1 and on Figures 2 and 3. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
Kattler #1 BGT Closure and Final Excavation, July 2012

			VOCs OVM	Field	Field
	Date	Sample Depth	Reading	TPH	Chlorides
Sample ID	Sampled	(ft bgs)	(ppm)	(mg/kg)	(mg/kg)
NMOCD Actio	on Level (NMA	C 19.15.17.13E)		100	250
S-1	7/18/12	0.5	10.3	55.3	200
S-2	7/18/12	0.5	7.8	66.2	80
S-3	7/18/12	0.5	11.7	63.8	160
S-4	7/18/12	0.5	4.5	68.7	160
S-5	7/18/12	0.5	7.5	60.2	240
SC-1	7/20/12	1 to 5	NA	NA	180
SC-2	7/20/12	1 to 5	NA	NA	100
SC-3	7/20/12	1 to 5	NA	NA	100
SC-4	7/20/12	1 to 5	NA	NA	100
SC-5	7/20/12	5	NA	NA	180

NA - not analyzed

Laboratory analytical results for SC-1 (July 18) reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. However, the laboratory chloride concentration was reported at 680 mg/kg.

Laboratory analytical results for SC-6 (July 20) were used to confirm field screening results during excavation activities, and the chloride concentration was reported at 90 mg/kg. Results are presented in Table 2 and on Figures 2 and 3. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results Kattler #1 BGT Closure and Final Excavation, July 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	on Level (NMAC 19.	15.17.13E)	0.2	50	1	00	250
SC-1	07/18/12	0.5	<0.050	<0.25	NA	NA	680
SC-6	07/20/12	1 to 5.5	NA	NA	NA	NA	90

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-4 with 68.7 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action level of 0.2 mg/kg and 50 mg/kg, respectively. However, chloride concentrations in SC-1 (July 18) exceeded the NMOCD action level of 250 mg/kg with 680 mg/kg. Excavation of chloride contaminated soils was recommended.

On July 20, 2012, final assessment of the excavation area was completed. Field screening results of the excavation extents showed that chloride concentrations were below applicable NMOCD action levels for all of the final four walls and base of the excavation. Laboratory analytical results from July 20, 2012, confirmed that chloride concentrations were below NMOCD action levels.

Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at the Kattler #1.

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

Sincerely,

Heather M. Woods Staff Geologist

Heather M. Woods

Elizabeth McNally, P.E.

Elizabeth V MiNdly

Crystal Tafoya Kattler #1 BGT Closure, Release, and Excavation Report January 31, 2013 Page 6 of 6

Attachments:

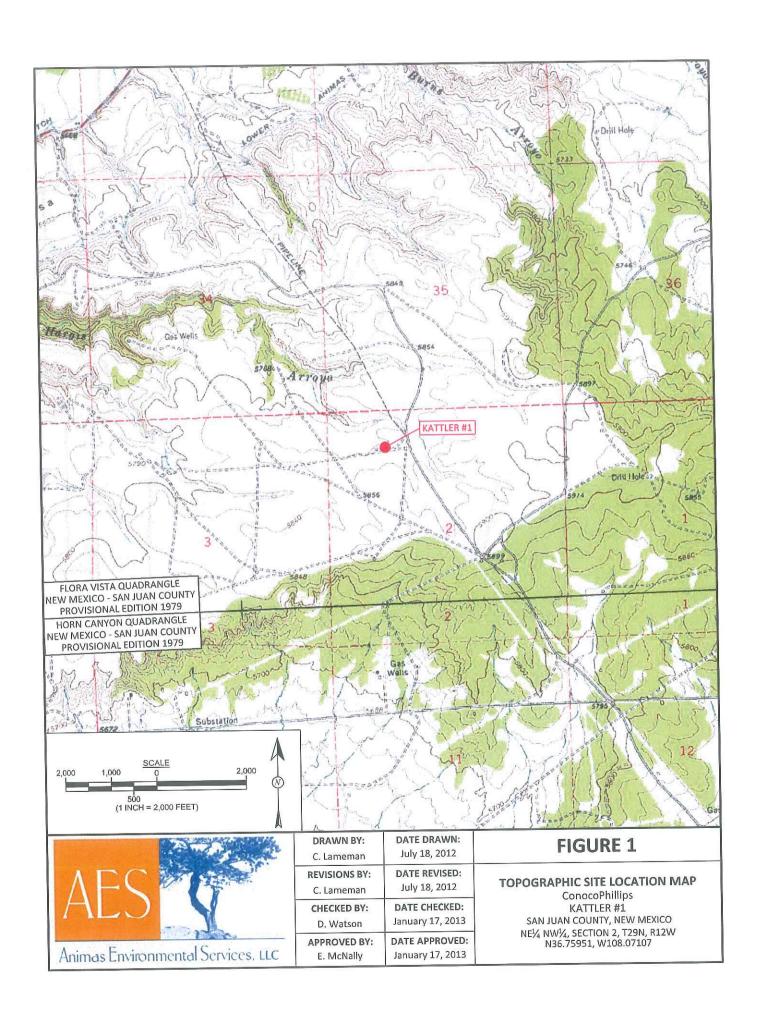
Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, July 2012

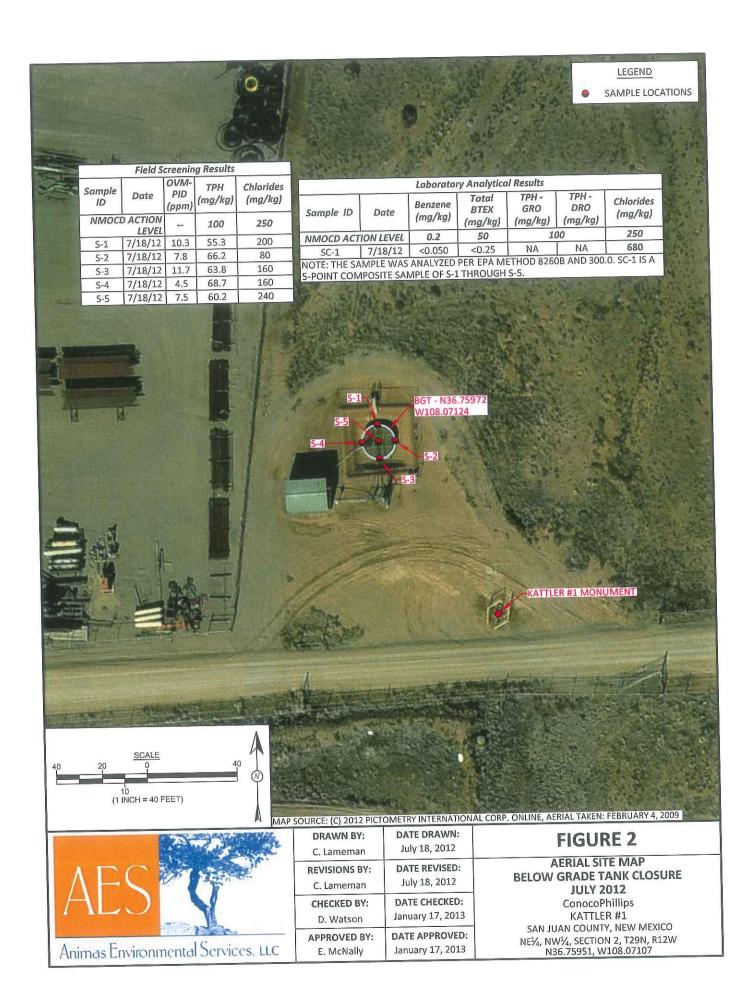
Figure 3. Final Excavation Soil Sample Locations and Results, July 2012

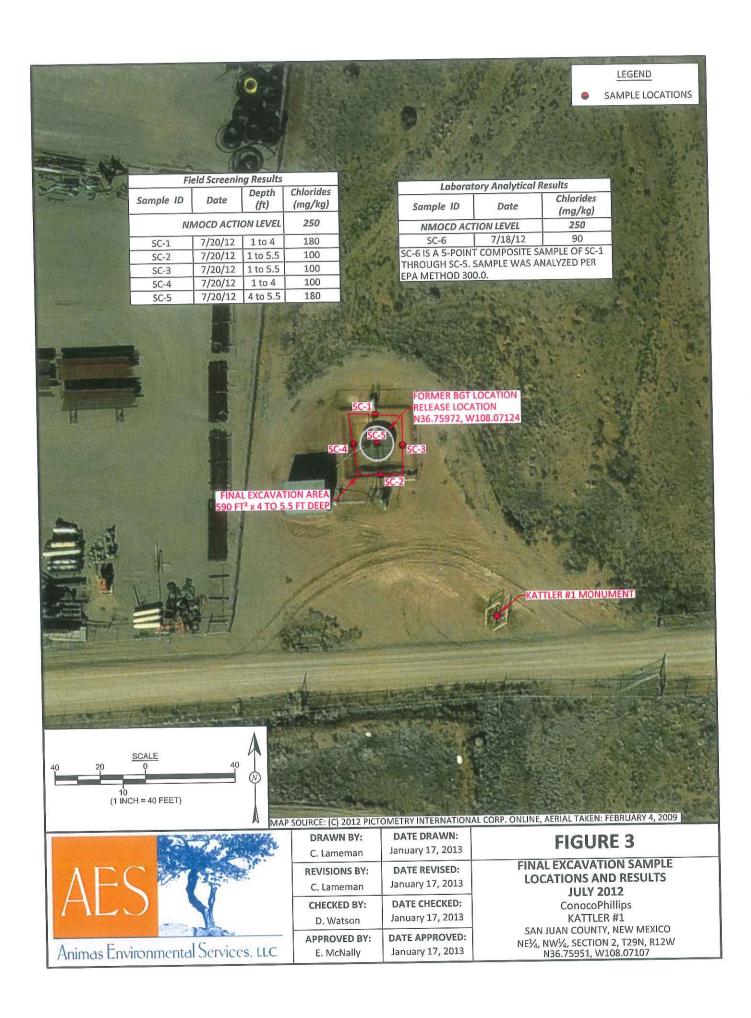
AES Field Screening Report 071812 AES Field Screening Report 072012 Hall Analytical Report 1207801

Hall Analytical Report 1207948

 $R:\Animas\ 2000\Dropbox\2013\ Projects\ConocoPhillips\Kattler\ \#1\BGT\ Closure\Kattler\ \#1\ BGT\ Closure\ and\ Excavation\ Report\ 013113.docx$







AES Field Screening Report

Client: ConocoPhillips

Project Location: Kattler #1

Date: 7/18/2012

Matrix: Soil



www.animasenvironmental.com

Durango, Colorado 970-405-3274

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

		Time of			Field	Field TPH				ТРН
			olamca	Z/N	Chloride	Analysis	Field TPH*	TPH PQL		Analysts
	Collection	Sample	location	(muu)	(mg/kg)	Time	(mg/kg)	(mg/kg)	DF	Initials
Sample ID	Date	Collection	רטנימנוסוו	/dal	10				,	1414
7 0	7/19/2012	ጸ•ንጉ	North	10.3	200	9:59	55.3	20.0		DAW
7-C	1/10/2014							4	7	/ / / /
6.3	7/18/2012	8.57	East	7.8	80	10:29	66.2	20.0	-	DAW
7-0	71707/01/	6.0								7818
6.3	7/19/2012	00.6	South	11.7	160	10:04	63.8	20.0	H	DAW
0-0	7107/01/	0000						1	*	7878
5	7/10/2017	9.03	West	4.5	160	10:06	68.7	20.0	Τ	DAW
2-4	7107/01/	55.0							7	7 1 1 1
7	7/18/2012	9:05	Center	7.5	240	10:09	60.2	20.0	Т	DAW
	1407/04/									

Practical Quantitation Limit PQL Not Detected at the Reporting Limit S

Not Analyzed NA

Dilution Factor

*Field TPH concentrations recorded may be below PQL.

Analyst:

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Total Petroleum Hydrocarbons - USEPA 418.1

Silver Nitrate

Report Finalized: 07/20/12



Client: ConocoPhillips

Project Location: Kattler #1

Date: 7/20/2012

Durango, Colorado 970-403-3274

Animas Environmental Services, LLC

www.animasenvironmental.com

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

Matrix: Soil

Analysts Initials TPH PF Not Analyzed for TPH. TPH PQL (mg/kg) Field TPH (mg/kg) Field TPH Analysis Time Chloride (mg/kg) Field 180 100 100 100 180 (mdd) Z Z Ϋ́ AN M Ϋ́ Location Sample South North West East Base Collection Time of Sample 13:29 13:32 13:25 13:19 13:21 7/20/2012 7/20/2012 7/20/2012 7/20/2012 7/20/2012 Collection Date Sample ID SC-4 SC-5 SC-1 SC-2 SC-3

Practical Quantitation Limit PQL Not Detected at the Reporting Limit

2

Not Analyzed NA PF

Dilution Factor

Total Petroleum Hydrocarbons - USEPA 418.1 Analyst:

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Silver Nitrate



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

August 03, 2012

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

FAX

RE: COP Kattler #1

OrderNo.: 1207801

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/19/2012 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 27, 2012.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Only

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1207801

Date Reported: 8/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

COP Kattler #1

1207801-001

Project:

Lab ID:

Client Sample ID: SC-1

Collection Date: 7/18/2012 9:10:00 AM

Received Date: 7/19/2012 10:10:00 AM Matrix: MEOH (SOIL)

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
					Analyst: BRM
EPA METHOD 300.0: ANIONS		20	mg/Kg	20	7/19/2012 12:16:00 PM
Chloride	680	30	mg/kg	20	* * * * * * * * * * * * * * * * * * *
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst: RAA
	ND	0.050	mg/Kg	1	7/19/2012 12:58:37 PM
Benzene	ND	0.050	mg/Kg	1	7/19/2012 12:58:37 PM
Toluene	ND	0.050	mg/Kg	1	7/19/2012 12:58:37 PM
Ethylbenzene	ND	0.10	mg/Kg	1	7/19/2012 12:58:37 PM
Xylenes, Total	94.8	70-130	%REC	-1	7/19/2012 12:58:37 PM
Surr: 1,2-Dichloroethane-d4	1000,000,000	70-130	%REC	1	7/19/2012 12:58:37 PM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	7/19/2012 12:58:37 PM
Surr: Dibromofluoromethane	89.5	-	%REC	1	7/19/2012 12:58:37 PM
Surr: Toluene-d8	101	70-130	MEC		

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

Reporting Detection Limit RL

Page 1 of 9 Samples with CalcVal < MDL

Analytical Report Lab Order 1207801

Date Reported: 8/3/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

COP Kattler #1

Lab ID: 1207801-002

Project:

Matrix: SOIL

Collection Date: 7/18/2012 12:49:00 PM

Client Sample ID: Stockpile

Received Date: 7/19/2012 10:10:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY					Analyst: DBD
	ND	0.033	mg/Kg	1	7/20/2012 2:49:13 PM
Mercury	110	****			Analyst: DBD
MERCURY, TCLP	W	0.000	ma/l	1	8/1/2012 1:42:01 PM
Mercury	ND	0.020	mg/L	(1)	
EPA METHOD 6010B: SOIL METALS					Analyst: ELS
Arsenic	ND	12	mg/Kg	5	7/20/2012 6:54:36 AM
Barium	390	1.0	mg/Kg	10	7/20/2012 6:58:51 AM
Cadmium	ND	0.50	mg/Kg	5	7/20/2012 6:54:36 AM
Chromium	7.4	1.5	mg/Kg	5	7/20/2012 6:54:36 AM
4/	5.2	1.2	mg/Kg	5	7/20/2012 8:38:17 AM
Lead	ND	12	mg/Kg	5	7/20/2012 8:38:17 AM
Selenium Silver	ND	1.2	mg/Kg	5	7/20/2012 6:54:36 AM
(2.1)					Analyst: ELS
EPA METHOD 6010B: TCLP METALS		F 0	ma m //	1	8/3/2012 6:27:11 AM
Arsenic	ND	5.0	mg/L	1	8/2/2012 3:54:22 PM
Barium	ND	100	mg/L		8/3/2012 6:27:11 AM
Cadmium	ND	1.0	mg/L	1	8/2/2012 3:54:22 PM
Chromium	ND	5.0	mg/L	1	8/2/2012 3:54:22 PM
Lead	ND	5.0	mg/L	1	
Selenium	ND	1.0	mg/L	1	8/2/2012 3:54:22 PM
Silver	ND	5.0	mg/L	1	8/2/2012 3:54:22 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Samples with CalcVal < MDL

Page 2 of 9

Hall Environmental Analysis Laboratory, Inc.

1207801 WO#:

03-Aug-12

Client:

Animas Environmental Services

Project:

COP Kattler #1

Sample ID MB-2907

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 2907

RunNo: 4157

Prep Date: 7/19/2012 Analysis Date: 7/19/2012

SeqNo: 118814 %REC LowLimit Units: mg/Kg

Analyte

SPK value SPK Ref Val PQL Result

%RPD **RPDLimit** HighLimit

%RPD

Chloride

ND 1.5

Sample ID LCS-2907

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSS Client ID:

Batch ID: 2907

RunNo: 4157

1.5

SeqNo: 118815

Units: mg/Kg

Prep Date:

Analysis Date: 7/19/2012 7/19/2012

15

15

110

Analyte

PQL Result

SPK value SPK Ref Val %REC

LowLimit 98.3

HighLimit

RPDLimit

Qual

Qual

Chloride

SampType: MS

RunNo: 4157

TestCode: EPA Method 300.0: Anions

BatchQC Client ID:

Batch ID: 2907

Prep Date:

7/19/2012

Sample ID 1207599-001AMS

Analysis Date: 7/19/2012

SeqNo: 118819

Units: mg/Kg

117

Analyte

SPK value SPK Ref Val %REC PQL Result

7.5

81.1

HighLimit

RPDLimit Qual %RPD

Chloride

1207599-001AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

LowLimit

64.4

Sample ID Client ID: BatchQC

Batch ID: 2907

RunNo: 4157

Prep Date:

7/19/2012

Units: mg/Kg

Analysis Date: 7/19/2012

SegNo: 118820

Analyte

%RPD

RPDLimit Qual

Chloride

Result POI 15 7.5 SPK value SPK Ref Val %REC 15.00

15.00

15.00

2.511

2.511

84.6

64.4

LowLimit

90

HighLimit 117

3.56

20

Qualifiers:

Value exceeds Maximum Contaminant Level. */X

Value above quantitation range

Analyte detected below quantitation limits J RPD outside accepted recovery limits

Analyte detected in the associated Method Blank B

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

Page 3 of 9

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207801

03-Aug-12

Client:

Animas Environmental Services

Project:

COP Kattler #1

Sample ID MB-2919

SampType: MBLK

TestCode: EPA Method 7471: Mercury

Client ID:

PBS

Batch ID: 2919

RunNo: 4199

Prep Date:

7/19/2012

Analysis Date: 7/20/2012

SeqNo: 120246

Units: mg/Kg

HighLimit

Analyte

SPK value SPK Ref Val PQL Result

%REC LowLimit

%RPD

%RPD

Mercury

ND 0.033

Sample ID LCS-2919

SampType: LCS

TestCode: EPA Method 7471: Mercury

Client ID: LCSS Batch ID: 2919

0.17

Result

RunNo: 4199

Prep Date: 7/19/2012

Analysis Date: 7/20/2012

SeqNo: 120247

Units: mg/Kg

120

SPK value SPK Ref Val %REC

Analyte

Result PQL 0.033

102 0

HighLimit LowLimit

%RPD **RPDLimit**

RPDLimit

Qual

Qual

Qual

Qual

Mercury Sample ID 1207796-008AMS

SampType: MS

TestCode: EPA Method 7471: Mercury RunNo: 4199

Client ID: BatchQC

Batch ID: 2919

0.1667

Units: mg/Kg

Prep Date:

7/19/2012

Analysis Date: 7/20/2012 PQL

SeqNo: 120251 %REC

98.8

HighLimit

Analyte Mercury

0.033 0.16

TestCode: EPA Method 7471: Mercury

75

LowLimit

Client ID:

Sample ID 1207796-008AMSD **BatchQC**

SampType: MSD Batch ID: 2919

RunNo: 4199

125

Prep Date:

7/19/2012

Analysis Date: 7/20/2012

SeqNo: 120252

Units: mg/Kg

Analyte

SPK value SPK Ref Val

0.1661

%REC LowLimit HighLimit

%RPD **RPDLimit**

RPDLimit

Mercury

Result PQL 0.16 0.033

0.1643

n

SPK value SPK Ref Val

98.0

75

125

1.87

20

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207801

03-Aug-12

Client:

Animas Environmental Services

Project:

COP Kattler #1

Sample ID MB-3127

SampType: MBLK

TestCode: MERCURY, TCLP

Client ID: PBW

Batch ID: 3127

RunNo: 4577

Prep Date: 8/1/2012 Analysis Date: 8/1/2012

Units: mg/L

SPK value SPK Ref Val %REC LowLimit

SeqNo: 128440

HighLimit

Analyte Mercury

Result PQL 0.020 ND

> TestCode: MERCURY, TCLP SampType: LCS

Sample ID LCS-3127 LCSW

Batch ID: 3127

RunNo: 4577

Client ID:

Units: mg/L

Prep Date:

Analysis Date: 8/1/2012 8/1/2012

SegNo: 128441

Analyte

HighLimit

120

Mercury

SPK value SPK Ref Val %REC PQL Result 0.005000 0.020

LowLimit 101

RPDLimit %RPD

RPDLimit

%RPD

Qual

Qual

Qual

Sample ID 1207B34-006AMS

SampType: MS

TestCode: MERCURY, TCLP RunNo: 4577

BatchQC Client ID:

Batch ID: 3127

Prep Date: 8/1/2012

Analysis Date: 8/1/2012

SeqNo: 128454

Units: mg/L

Analyte

SPK value SPK Ref Val PQL Result

LowLimit %REC

104

%RPD HighLimit

125

Mercury

0.005000 0.020

TestCode: MERCURY, TCLP

Sample ID 1207B34-006AMSD BatchQC Client ID:

SampType: MSD Batch ID: 3127

RunNo: 4577

Prep Date:

8/1/2012

Units: mg/L

Analysis Date: 8/1/2012

SeqNo: 128455

RPDLimit %RPD

RPDLimit

Analyte Mercury

SPK value SPK Ref Val PQL 0.005000 ND 0.020

%REC 93.4

LowLimit 75

75

HighLimit 125 0

Qual 20

Qualifiers:

R

Value exceeds Maximum Contaminant Level. */X

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank B

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit ND Reporting Detection Limit

RL

Page 5 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207801

03-Aug-12

0	in	77	10
	le	Ш	

Animas Environmental Services

ment: Aminas	Lilivitoimien									
Project: COP Ka	attler #1									
Sample ID MB-2912	SampTy	pe: MBI	.K	Test	Code: EP	A Method 6	010B: Soil M	etals		
		D: 291		R	unNo: 410	68				
Client ID: PBS Prep Date: 7/19/2012	Analysis Da			S	eqNo: 11	9211	Units: mg/L			
	Result			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	ND	2.5								
Arsenic Barium	ND	0.10								
Cadmium	ND	0.10								
	ND	0.30								
Chromium	ND	0.25								
Silver	, ND	2,172						H = 4 = 1 =		
Sample ID LCS-2912	SampTy	ype: LC	S				6010B: Soil N	letais		
Client ID: LCSS	Batch	ID: 291	2		RunNo: 41					
Prep Date: 7/19/2012	Analysis Da	ate: 7/	20/2012	d	SeqNo: 1	19212	Units: mg/L			
Awalista	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	25	2.5	25.00	0.2515	101	80	120			
Arsenic	24	0.10	25.00	0	94.3	80	120			
Barium	24	0.10	25.00	0	95.3	80	120			
Cadmium	24	0.30	25.00	0.09550	93.7	80	120			
Chromium	4.8	0.25	5.000	0.03050	96.3	80	120			
Silver	4.0	0.20	0.000		13,0020 00 1500	MANAGEMENT AND THE STATE OF THE		nd-4-1-		
Sample ID MB-2912	SampT	ype: MI	BLK	Te			6010B: Soil	wetais		
Client ID: PBS	Batch	h ID: 29	12		RunNo: 4	174				
Prep Date: 7/19/2012	Analysis D	Date: 7	/20/2012		SeqNo: 1	19449	Units: mg/l	〈 g		
	Result	PQL		SPK Ref Va	I %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	ND	0.25								
Lead	ND	2.5								
Selenium								B.B. 4 1		
Sample ID LCS-2912	Samp ⁻	Type: Lo	cs	Te			d 6010B: Soil	IVICTAIS		
Client ID: LCSS	Bato	h ID: 2	912		RunNo: 4					
Prep Date: 7/19/2012	Analysis I	Date: 7	//20/2012		SeqNo:	119451	Units: mg/	Kg		
	Result	PQL	SPK value	SPK Ref Va	al %REC	LowLimi		%RPD	RPDLimit	Qual
Analyte	24	0.25		1,225	96.0					
Lead Selenium	22	2.5) 0	86.1	80) 120			
Germani	463100					CDA Matha	d 6010B: Soi	I Metals		
Sample ID MB-2912		Type: N		Ţ			u 00 100. 301	, inclais		
Client ID: PBS		ch ID: 2			RunNo:		\$150 \$\$00000 \$00000000			
Prep Date: 7/19/2012	Analysis		7/25/2012		SeqNo:		Units: mg			01
Analyte	Result	PQL	SPK value	e SPK Ref V	al %REC	C LowLim	it HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.	5							
Barium	ND	0.1	0							
Cadmium	ND	0.1	0							
	ND	0.3								
Chromium		165365								

Qualifiers:

Page 6 of 9

RL Reporting Detection Limit

^{*/}X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207801

03-Aug-12

Client:

Animas Environmental Services

Project:

COP Kattler #1

Sample ID MB-2912	SampT	уре: МЕ	BLK	Test	Code: E	PA Method	6010B: Soil I	Wetals		
Client ID: PBS	Batch	n ID: 29	12	R	tunNo: 4	414				
Prep Date: 7/19/2012	Analysis D	ate: 7/	25/2012	S	SeqNo: 1	23190	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ead	ND	0.25								
selenium	ND	2.5								
Silver	ND	0.25								

Sample ID LCS-2912	SampT	ype: LC	S	Test	tCode: EF	A Method	6010B: Soil I	Wetals		
Client ID: LCSS	Batch	ID: 29 ′	12	F	RunNo: 44	414				
Prep Date: 7/19/2012	Analysis D	ate: 7/	25/2012	8	SeqNo: 1	23191	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	25	2.5	25.00	0.7230	96.9	80	120			
Barium	25	0.10	25.00	0	100	80	120			
Cadmium	25	0.10	25.00	0	100	80	120			
Chromium	24	0.30	25.00	0.06600	96.9	80	120			
Lead	25	0.25	25.00	0	100	80	120			
Selenium	25	2.5	25.00	0	98.2	80	120			
Silver	5.1	0.25	5.000	0	103	80	120			

TestCode: EPA Method 6010B: Soil Metals

Sample ID	1207640-001BMS	SampT	ype: MS		Test	Code: EF	PA Method	6010B: Soil I	Metals		
i.	BatchQC		ID: 291	12	R	RunNo: 4	414				
Prep Date:	7/19/2012	Analysis D	ate: 7/	25/2012	8	SeqNo: 1	23197	Units: mg/K	(g-dry		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		25	15	28.40	0	88.1	75	125			
Barium		42	0.58	28.40	36.21	21.6	75	125			S
Cadmium		28	0.58	28.40	0	96.9	75	125			
		30	1.7	28.40	2.024	97.4	75	125			
Chromium		29	1.5		2.697	93.5	75	125			
Lead		28	15	28.40	6.868	73.4	75	125			S
Selenium Silver		5.4	1.5	25 656	122	95.7	75	125			

Sample ID 1207640-001BMS	SampT	ype: MS	D	TestCode: EPA Method 6010B: Soil Metals							
Client ID: BatchQC		ID: 29	12	, F	RunNo: 4	414					
Prep Date: 7/19/2012	Analysis D	ate: 7/	25/2012	8	SeqNo: 1	23198	Units: mg/K	g-dry			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
The state of the s	26	15	28.58	0	89.5	75	125	2.19	20		
Arsenic	43	0.58	28.58	36.21	23.0	75	125	1.08	20	S	
Barium	27	0.58	28.58	0	95.3	75	125	0.988	20		
Cadmium			28.58	2.024	94.9	75	125	1.85	20		
Chromium	29	1.7		2.697	93.7	75	125	0.831	20		
Lead	29	1.5	28.58			75	125	13.7	20		
Selenium	32	15	28.58	6.868	87.2						
Silver	5.3	1.5	5.717	0	93.3	75	125	1.94	20		

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207801

03-Aug-12

01	12	40
8 .	lien	III.

Animas Environmental Services

lient: roject:	COP Kattle		ai Scivi	ces						77	
ample ID	MB-3144	SampTy	pe: MBL	.К	Test	Code: EP/	\ Method 6	010B: TCLP	Metals		
Client ID:		Batch I	D: 3144	1	Ri	unNo: 46 1	17				
		Analysis Da			S	eqNo: 129	9447	Units: mg/L			
	0/1/2012	Result			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte arium		ND	100	Of It value	01 111101 111						
hromium		ND	5.0								
ead		ND	5.0								
elenium		ND	1.0								
lver		ND	5.0								
					-	O de ED	A Blackbook	6010B: TCLF	Motals		
	LCS-3144	SampTy						OUTUB. TOLI	Metais		
Client ID:	LCSW		ID: 314			RunNo: 46					
Prep Date:	8/1/2012	Analysis Da	ate: 8/2	2/2012	S	SeqNo: 12	9448	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium		ND	100	0.5000	0	92.7	80	120			
Chromium		ND	5.0	0.5000	0	95.3	80	120			
.ead		ND	5.0	0.5000	0	95.9	80	120			
		ND	1.0	0.5000	0	104	80	120			
Selenium		ND	5.0	0.1000	0.004880	96.6	80	120			
Silver						2004		coupp. TOU	D Metale		
Sample ID	1207C56-003AMS	SampT	ype: MS	ì				6010B: TCL	Pivietais		
Client ID:	BatchQC	Batch	1D: 31	44		RunNo: 40					
Prep Date	8/1/2012	Analysis D	ate: 8/	2/2012	3	SeqNo: 1	29483	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chromium		ND	5.0	0.5000	0	99.8	75				
Selenium		ND	1.0	0.5000	0	104	75				
Silver		ND	5.0	0.1000	0.01075	100	75	125			
Cample II	1207C56-003AMS	SamnT	ype: M	SD	Te	stCode: E	PA Method	1 6010B: TCL	P Metals		
El company		ms and s	h ID: 31			RunNo: 4	617				
Client ID:		Analysis I				SeqNo: 1		Units: mg/l	<u>a</u>		
Prep Date	e: 8/1/2012					CONSTRUCTION OF THE PARTY OF TH	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		Result	PQL		SPK Ref Val	91.9	75	1 (000000000	0	20	
Chromium		ND	5.0			101	75		0	20	
Selenium		ND	1.0	0.5000	000000	90.9	75		0	20	
Name and Advisory of the Control of		ND	5.0	0.1000	0.01075						
Silver											
	D MB-3144	Samp	Type: M	BLK	Те	estCode: E	PA Metho	d 6010B: TCI	_P Metals		
			Type: M		Te	estCode: E RunNo: 4		d 6010B: TCI	_P Metals		
Sample II	PBW		th ID: 3	144	Те		1622	d 6010B: TCI Units: mg/			
Sample II	PBW	Bato	th ID: 3	144 8/3/2012	Te SPK Ref Va	RunNo: 4	1622 129665	Units: mg/			Qual
Sample II Client ID: Prep Date	PBW	Bato Analysis	ch ID: 3° Date: 8	144 6/3/2012 SPK value		RunNo: 4	1622 129665	Units: mg/	L		Qual

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

- Value above quantitation range
- Analyte detected below quantitation limits
- RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1207801

03-Aug-12

Animas Environmental Services

Client:	Animas Er	nvironment	al Serv	ices							
Project:	COP Kattl	ler #1									
Sample ID	LCS-3144	SampTy	ne: LCS	9	Test	Code: EP	A Method	6010B: TCLP	Metals		
Client ID:			ID: 314			ınNo: 46					
						eqNo: 12		Units: mg/L			
Prep Date:	8/1/2012	Analysis Da						E2.			0 1
Analyte		Result	75 SYMS1921			%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		ND	5.0	0.5000	0	107	80	120			
Cadmium		ND	1.0	0.5000	0	98.8	80	120			
Sample ID	1207C56-003AMS	SampTy	/pe: MS		Test	Code: EF	A Method	6010B: TCLF	Metals		
Client ID:	BatchQC	Batch	ID: 314	14	R	unNo: 46	322				
Prep Date:	8/1/2012	Analysis Da	ate: 8/	3/2012	S	eqNo: 12	29686	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium		ND	1.0	0.5000	0	94.3	75	125			
6 1 15	1207C56-003AMS	D CompTi	ype: MS	:D	Test	Code: EF	A Method	6010B: TCLF	P Metals		
57.570.000 BONES 100			ID: 31			unNo: 40					
Client ID:	BatchQC					egNo: 1		Units: mg/L			
Prep Date:	8/1/2012	Analysis D	ate: 8/	3/2012	3	eqivo. 1					
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium		ND	1.0	0.5000	0	91.8	75	125	0	20	
Sample ID	1207C56-003AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	6010B: TCL	P Metals		
Client ID:	BatchQC	Batch	1D: 31	44	F	RunNo: 4	622				
Prep Date	8/1/2012	Analysis D	ate: 8	3/2012	5	SeqNo: 1	29691	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium		ND	500	0.5000	1.293	92.8	75	125			
Sample IF	1207C56-003AMS	D SampT	ype: M	SD	Tes	tCode: E	PA Method	I 6010B: TCL	P Metals		
Client ID:		5000 CONTRACTOR 100-00	n ID: 31		F	RunNo: 4	622				
		Analysis E	Date: 8	/3/2012	9	SeqNo: 1	29692	Units: mg/L			
Prep Date	QIIIIA GIA										
Prep Date Analyte	. Of the off	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range Е

Analyte detected below quantitation limits

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit Reporting Detection Limit

Page 9 of 9



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-410;
Website: www.hallenvironmental.com

Sample Log-In Check List

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ork Order Number: 12	207801
Client Name: Animas Environmental W	DIK Older Number. 12	307301
Received by/date: 7 / / / / / / / / / / / / / / / / / /		All a
Logged By: Lindsay Mangin 7/19/2012 10:10:00 AM	07/19/12	my o
Completed By: Lindsay Mangin	01/101/12	
Reviewed By: TO pringlia		
777		
Chain of Custody	Yes No D	Not Present ✓
1. Were seals intact?	Yes ☑ No □	Not Present
Is Chain of Custody complete? How was the sample delivered?	Client	
3. How was the sample delivered?		
<u>Log In</u>		
4. Coolers are present? (see 19. for cooler specific information)	Yes ☑ No □	NA 🗆
	д П	NA 🗆
5. Was an attempt made to cool the samples?	Yes ☑ No L	NA 🗆
	Yes ☑ No □	NA 🗆
6. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑ No ☐	W. C
	Yes ☑ No □	
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 ☑	NA 🗆
10. Was preservative added to bottles?		
11, VOA vials have zero headspace?	Yes 🔲 No 🗆	No VOA Vials ☑
12. Were any sample containers received broken?	Yes No 🗹	# of preserved
13. Does paperwork match bottle labels?	Yes 🗸 No 🗆	bottles checked
(Note discrepancies on chain of custody)	Yes V No	for pH: (<2 or >12 unless noted)
14. Are matrices correctly identified on Chain of Custody?		Adjusted?
15. Is it clear what analyses were requested?	Yes ☑ No ☐	
16. Were all holding times able to be met? (If no, notify customer for authorization.)	(68 🖭 —	Checked by:
Special Handling (if applicable)		
17. Was client notified of all discrepancies with this order?	Yes 🗌 No 🔲	NA 🗹
Person Notified: Date:	│ │ eMail	Fax In Person
Sy venoni.	Claight C 1 House	
Regarding:	* * * * * * * * * * * * * * * * * * * 	
Client Instructions:		
18. Additional remarks:		
19. Cooler Information		
Cooler No Temp C Condition Seal Intact Seal No	Seal Date Sign	ned By
1 1.0 Good Yes		

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(AOV) 86088 (AOV) 8220 (Semi-VOA) 6809. D Chlorides (N or N) Air Bubbles (Y or N)	*	acethillipo user 108 KAITAM Underdeed: Jeso Henom Area: 3
IALL ENVIRONME NALYSIS LABOR www.hallenvironmental.com ins NE - Albuquerque, NM 87109 45-3975 Fax 505-345-4107 Analysis Request	310 (PNA or PAH) Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 1881 Pesticides / 8082 PCB's		Conscot hilling user 108 KA 179-W Workendowd: Loss He
ANALL ANALL www.hall 4901 Hawkins NE - Tel. 505-345-3975	TEX + MTBE + TPH (Gas only) PH Method 8015B (Gas/Diesel) PH (Method 418.1) Gas/Diesel)	1	Remarks: Pall to Conscelling 100: 10336323 user 108 act. code: C200 working
Description of Rush Man de Composition of the Composition of the Heat of the Composition	Project Manager. R. Kennener Sampler: Deldone Walson Sample Temerative Container Preservative Type and # Type	100 - 100 l	Received by: Mustra Jelle 7/8/12 1622 Received by:
Chain-of-Custody Record Client: Antimas Environmental Services, ELC Mailing Address: 624 E Convanche Farmington N.M. 87401	Slert 22.8 I Level 4 (Full Validation) Other Matrix Sample Request ID	N SC-1 Stockpile	Relinquished by: Mrnuk Mathered By:
Client: Antwas E Services LL Mailing Address: 624 E	Phone #: 505 - 564 228 email or Fax#: QA/QC Package: Accreditation C NELAP Date Time Matrix Si	1-18-12 DA 10 Stard	Date: Time: Relinquished by:



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

July 24, 2012

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

FAX

RE: COP Kattler #1

OrderNo.: 1207948

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/21/2012 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

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1207948

Date Reported: 7/24/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Client Sample ID: SC-6

Project: COP Kattler #1

Collection Date: 7/20/2012 1:40:00 PM

Lab ID: 1207948-001

Matrix: SOIL

Received Date: 7/21/2012 2:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: BRM
EPA IVIE I HOD 300.0. AINTOING		0.0	malka	20	7/23/2012 11:09:34 AM
Chloride	90	30	mg/Kg	20	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Page 1 of 3

Analytical Report Lab Order 1207948

Date Reported: 7/24/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

COP Kattler #1

Lab ID: 1207948-002

Project:

Matrix: SOIL

Client Sample ID: Background

Collection Date: 7/18/2012 12:08:00 PM

Received Date: 7/21/2012 2:00:00 PM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: BRM
EPA METHOD 300.0: ANIONS			0/2	20	7/23/2012 11:21:59 AM
Chloride	ND	30	mg/Kg	20	112012012 11.21.00710

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
 - Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL</p>

Page 2 of 3

Hall Environmental Analysis Laboratory, Inc.

WO#:

1207948

24-Jul-12

Client:

Animas Environmental Services

Result

Project:

COP Kattler #1

Sample ID MB-2967

SampType: MBLK

TestCode: EPA Method 300.0: Anions

PBS Client ID:

Batch ID: 2967

RunNo: 4241

SeqNo: 121293

Units: mg/Kg

Prep Date: 7/23/2012

Analysis Date: 7/23/2012 PQL

HighLimit

%RPD

%RPD

%RPD

Qual

Analyte Chloride

ND 1.5

Sample ID LCS-2967

SampType: LCS

TestCode: EPA Method 300.0: Anions

LCSS Client ID:

Batch ID: 2967

RunNo: 4241

Units: mg/Kg

Prep Date: 7/23/2012

Analysis Date: 7/23/2012

SeqNo: 121294 SPK value SPK Ref Val

RPDLimit

RPDLimit

Qual

Qual

Chloride

POL 15.00 1.5

LowLimit %REC 96.1

HighLimit 110

RPDLimit

Sample ID 1207838-001AMS

SampType: MS

RunNo: 4241

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: 2967

Result

35.17

SPK value SPK Ref Val %REC LowLimit

Analyte

Prep Date: 7/23/2012

Analysis Date: 7/23/2012

SegNo: 121298

Units: mg/Kg HighLimit

PQL SPK value SPK Ref Val Result

%REC

88.6

117

Analyte Chloride

15 15.00 48

TestCode: EPA Method 300.0: Anions

64.4

LowLimit

Client ID:

Sample ID 1207838-001AMSD BatchQC

SampType: MSD Batch ID: 2967

RunNo: 4241

Prep Date:

7/23/2012

Analysis Date: 7/23/2012

Units: mg/Kg

Analyte

SeqNo: 121299

HighLimit

Qual %RPD **RPDLimit**

20

Chloride

PQL

SPK value SPK Ref Val %REC

35.17

98.1

117

Result 50

15 15.00

64.4

LowLimit

2.89

Qualifiers:

R

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

Page 3 of 3

Reporting Detection Limit



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1207948 Animas Environmental Client Name: 15-07/21/12 Received by/date: am Il-7/21/2012 2:00:00 PM Logged By: **Anne Thorne** am Il 7/23/2012 Completed By: **Anne Thorne** Reviewed By: Chain of Custody Yes No Not Present 1. Were seals intact? Not Present Yes V No 2. Is Chain of Custody complete? Courier 3. How was the sample delivered? Log In NA 🗆 Yes V No Coolers are present? (see 19. for cooler specific information) NA [Yes ☑ No □ 5. Was an attempt made to cool the samples? Yes V No NA [Were all samples received at a temperature of >0° C to 6.0°C Yes M No 7. Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? Yes V No 9. Are samples (except VOA and ONG) properly preserved? Yes ☐ No ☑ NA [10. Was preservative added to bottles? Yes No No VOA Vials 11. VOA vials have zero headspace? Yes No V 12. Were any sample containers received broken? # of preserved Yes V No 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: (<2 or >12 unless noted) Yes V No 14. Are matrices correctly identified on Chain of Custody? Adjusted? Yes V No 15. Is it clear what analyses were requested? Yes V No 16. Were all holding times able to be met? Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) NA 🗌 Yes ☐ No ☑ 17. Was client notified of all discrepancies with this order? Date Person Notified: ☐ eMail ☐ Phone ☐ Fax ☐ In Person By Whom: Regarding: Client Instructions: 18. Additional remarks: 19 Cooler Information Temp C | Condition | Seal Intact | Seal No | Seal Date Signed By Cooler No. Good

ANALYSIS LABORATOR Www.hallenvironmental.com Asort Hawkins NE - Albuquerque, NM 87108 Tel. 506-345-3407 Analysis Request Analysis Requ						1						-		-		The second secon
		thim a	S Envi	WOMMAJE P Service, III	☐ Standard Project Name		some Day			2 **	AL v.halle	INVIRON	ments	A IS	ORAT	ORY
Dollact #: Project Manager: Dollact #: Dollact Manager: Doll	Mailing A	ddress:	107 d F	F. Cranamoher	CoP K	日十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二		4	301 Hz	wkins	· 叫	Albuqu	erdne	MM	87109	
Container Project Manager. Container Project Manager. Container Project Manager. Container Project Manager. Container Preservative Container Preservative Project Manager. Container Preservative Prese	Ta .	Mine	र्ष	NM 87401	Project #:				el. 50	-345-3	975 An	Fax	Sequ Red	Mo-4		ŀ
Other Sample: Highwork Wal-Sov	Phone #	Fax#: (505)	3210-2022	Project Mana	ger.				2 I A	TP.	ros'			A II	
Sampler II Little Woods Sampler II Little Woods	QA/QC F	ackage:		☐ Level 4 (Full Validation)		LSON						,09,00				
Matrix Sample Request ID Type and # Type and	Accredit	ation	Othe	e.			space.			THE HOLDER		alls No3,NG			(40)	
Sample Request ID Container Preservative Type and # Type and # Type	O EDD	(Type)				nerature 5/2		_				stelv (FS)		12	_ 11.11	
	Date	Time	Matrix	i izuli	Container Type and #	Preservative Type	HEMING					RCRA 8 I			90) 0/70	
	1/20/2		1:05	\$6-10	7 year Javs		9			1		7			+	
	7/10/12			Background		None	7002					7			+	-
										+		+	-		-	-
								100		+		+	-			
										-						
1 1 12 142													+		+	-
1 1 12 1 12												\Box				
12 / 12												6.0				
2 / 40					Received by:			Rema	Irks: 2			Jugar	- hill	3		
C.	Date: 7/20/12		§)_	ath M. Wood	Mart	7	le Til	- 1	103	3632		340				
	Date:	Time:	C.	ished by:		1/	7/14/12 14/10	3	re	KAITE	3					

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

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 Notificat	ion and Co	orrective A	ction						
	OPERA'	OPERATOR Initial Report Final Report							
Name of Company Burlington Resources Oil & Gas Company	Contact Cr	ystal Tafoya		*		•			
Address 3401 East 30th St, Farmington, NM	37		Total moderate						
Facility Name: Kattler 1 Facility Type: Gas Well									
Surface Owner Fee Mineral Own	er Fee		AP	I No.30-045-0	8844	-			
WAR THE WORLD		LEVEE							
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County									
C 2 29N 12W 990	West	San Juan	i						
C 2 29N 12W 990 North 1650 West San Juan Latitude 36.75908 Longitude 108.07066									
NATURE OF RELEASE									
Type of Release Produced Fluids	Volume of			me Recovered	Non				
Source of Release Below Grade Tank		Hour of Occurrence		and Hour of Dis	scovery				
Was Immediate Notice Given?	Unknown If YES, To		July	17, 2012		•			
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Requi		YVIIOIII?		RCVD FEB	7711	1 n			
By Whom?	Date and I	Hour		TH PINS		A STATE OF THE STA			
Was a Watercourse Reached?		olume Impacting (the Watercour						
☐ Yes ☒ No	2	W	12	se. DIST.	. 3				
If a Watercourse was Impacted, Describe Fully.*									
10 U U U U U U U U U U U U U U U U U U U									
Describe Cause of Problem and Remedial Action Taken.*									
Below Grade Tank Closure Activities									
		4							
Describe Area Affected and Cleanup Action Taken.*		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	LF-31	-					
The below grade tank sample results were above regulatory stand	lards by USEPA	method 418.1 fo	or TPH confir	ming a release.	Th exe	cavation was			
24' x 20' x 5.5' and 98 cubic yards of soil was transported to a thin	d party landfar	m. Excavation a	nd confirmat	ion sampling oc	ccurred	. 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									
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report to									
should their operations have failed to adequately investigate and reme									
or the environment. In addition, NMOCD acceptance of a C-141 rep									
federal, state, or local laws and/or regulations.									
a di		OIL CON	SERVATI	ON DIVISI	$\frac{ON}{A}$				
Cydal of Tajoya			\wedge	etth "	11/11	//			
Signature:	Approved by	Environmental S	enecialist 🕽	Wall De	L W	M			
	/ rpproved b	Liiviioiiiioittai c	poeranst (2.0000		()			
Printed Name: Crystal Tafoya									
Title: Field Environmental Specialist Approval Date: 120, 5 Expiration Date:									
		010-1							
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of	of Approval:		Attache	d 🔲				
Date: 2/19/2013 Phone: (505) 326-9837									
Date. 211/2015 11006. (505) 520 7051			3058 48	201					



