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

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

Form C-144 Revised June 6, 2013

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or

Proposed Alternative Method Permit or Closure Plan App	lication
Type of action: Below grade tank registration	OIL CONS. DIV DIST. 3
Permit of a pit or proposed alternative method	DEC 4 = 2045
39 - 25364 ☐ Closure of a pit, below-grade tank, or proposed alternative method ☐ Modification to an existing permit/or registration	DEC 1 5 2015
Closure plan only submitted for an existing permitted or non-permit	ted nit below-grade tank
or proposed alternative method	ned pit, below grade taint,
Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank of	or alternative request
lease be advised that approval of this request does not relieve the operator of liability should operations result in pollution of	
nvironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental and	
L.	THE RESERVE OF THE PERSON OF T
Operator: Burlington Resources Oil & Gas Company, LP OGRID #: 14538	
Address: PO BOX 4289, Farmington, NM 87499	
Facility or well name: SAN JUAN 28-5 UNIT NP 230	
API Number: 30-039-25364 OCD Permit Number:	
U/L or Qtr/Qtr B Section 25 Township 28 N Range 5 W County: Rio Arriba	A SAME AND
Center of Proposed Design: Latitude <u>36.63572 °N</u> Longitude <u>-107.30770 °W</u> NAD: □1927 ⊠ 1983	The second secon
Center of Proposed Design: Latitude 36.63572 °N Longitude -107.30770 °W NAD: □1927 ☑ 1983 Surface Owner: ☑ Federal □ State □ Private □ Tribal Trust or Indian Allotment	
□ Permanent □ Emergency □ Cavitation □ P&A □ Multi-Well Fluid Management Low Chloride □ Lined □ Unlined Liner type: Thicknessmil □ LLDPE □ HDPE □ PVC □ Other □ □ String-Reinforced Liner Seams: □ Welded □ Factory □ Other □ Volume:bbl Dimensions: L_	
3.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: 120 bbl Type of fluid: Produced Water	
Tank Construction material: Metal	
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut	-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other	
Liner type: Thickness mil ☐ HDPE ☐ PVC ☒ Other UNSPECIFIED	
4. ☐ Alternative Method:	
	office for consideration of annual
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau	office for consideration of approvai.
5	
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 perman	ent residence, school, hospital,
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	A D
Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accommendation and apply to drying pads or above-grade tanks.	eptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks) - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks) - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Line of the
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 Natructions: 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 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number:	9 NMAC 15.17.9 NMAC
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. 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:	

12	
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	documents are
attached. ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC ☐ Climatological Factors Assessment	
Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	
Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization	
Monitoring and Inspection Plan	
☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
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 Flank Alternative Proposed Closure Method: Waste Excavation and Removal	luid 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	
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
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	
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. 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 	□ Vas □ Na
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17. Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification: I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed.	
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 12112 Title: OCD Permit Number:	31908
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: 7/11/13	the closure report. complete this
20. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-lo ☐ If different from approved plan, please explain.	op systems only)
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please into mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure for private land only) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure)	dicate, by a check

Operator Closure Certification:	
	submitted with this closure report is true, accurate and complete to the best of my knowledge and lapplicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Kelly G. Roberts	Title: Regulatory Technician
Signature: Daly G. Rott	Date: 12/14/15
e-mail address: Kelly.Roberts@cop.com Telep	phone: (505) 326-9775

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

Lease Name: SAN JUAN 28-5 UNIT NP 230

API No.: 30-039-25364

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 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.

 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.

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	ponents Tests Method		
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 not 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.

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

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

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

			Rele	ease Notific	catio	n and Co	orrective A	ction				
						OPERA'	ГOR	[_ Initi	al Report	⊠ I	Final Repor
Name of Company Burlington Resources Oil & Gas Company Address 3401 East 30 th St, Farmington, NM						Contact Crystal Walker						
							No.(505) 326-98	837	10			
Facility Na	ne: SAN J	UAN 28-5 U	UNIT NI	230		Facility Typ	e: Gas Well					
Surface Ow	ner Federa	nl		Mineral (Owner	Federal			API No	.30-039-25	5364	
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/W	est Line	County		
				Latitude 36	.63572	Longitude	e <u>-107.307700</u>					
				NAT	URE	OF REL	EASE					
Type of Rele	ase					Volume of	Release		Volume l	Recovered		
Source of Release						Date and I	Iour of Occurrence	ce	Date and	Hour of Dis	covery	
Was Immedi	ate Notice G	iven?				If YES, To	Whom?			3 (
was illilicul	ate Notice o		Yes [No Not R	equired		whom:					
By Whom?			11			Date and H	Iour					
Was a Water	course Reac					If YES, Vo	olume Impacting	the Water	course.	-		
			Yes 🛛	No								
Describe Cau No release w												
Describe Are N/A	a Affected a	and Cleanup A	Action Tal	cen.*								
regulations a public health should their	Il operators a or the envir operations ha nment. In ac	are required to onment. The ave failed to a ddition, NMO	o report and acceptant adequately OCD accep	e is true and comp nd/or file certain note of a C-141 report investigate and note of a C-141	release of ort by the remedia	notifications a ne NMOCD m te contaminati	nd perform correct arked as "Final Roon that pose a three the operator of	ctive actio deport" do reat to gro responsib	es not rel und wate ility for c	eases which ieve the oper r, surface wa compliance w	may ends rator of li ster, huma vith any o	anger ability an health
Cionatura	7-10		0				OIL CON	SERVA	ATION	DIVISIO	N	
Signature:	100g	1.0	40									
Printed Nam	e: Kelly G.	Roberts				Approved by	Environmental S	specialist:	11/2	270		
Title: Regul	atory Techr	nician				Approval Da	te:	E	xpiration	Date:		
E-mail Addr	ess: Kelly.	.Roberts@coj	p.com			Conditions of	f Approval:			Attached	П	

Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

September 9, 2013

Lisa Hunter ConocoPhillips San Juan Business Unit Office 214-04 5525 Hwy 64 Farmington, New Mexico 87401

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

Below Grade Tank Closure Report RE:

San Juan 28-5 #230

Rio Arriba County, New Mexico

Dear Ms. Hunter:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) San Juan 28-5 #230, located in Rio Arriba County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

Site Information 1.0

1.1 Location

Site Name - San Juan 28-5 #230

Legal Description - NW¼ NE¼, Section 25, T28N, R5W, Rio Arriba County, New Mexico Well Latitude/Longitude - N36.63600 and W107.30827, respectively BGT Latitude/Longitude - N36.63599 and W107.30811, respectively Land Jurisdiction - Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, Below Grade Tank Closure, July 2013

Depth to Groundwater Determination (NMAC 19.15.17.13 Table 1) 1.2

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Report dated May 1991 for well San Juan 28-5 #46, located on the same pad, reported the depth to groundwater at 95 to 100 feet below ground surface (bgs). AES personnel further assessed the depth to water determination using

topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was between 50 and 100 feet bgs.

1.3 BGT Closure Assessment

AES was initially contacted by Freddie Martinez, CoP representative, on July 10, 2013, and on July 11, 2013, Heather Woods and Jesse Christopherson of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

2.0 Soil Sampling

On July 11, 2013, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for VOCs and chloride and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.1.3 Chlorides

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

2.2 Laboratory Analyses

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

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

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 1.7 ppm in S-5 up to 6.5 ppm in S-1. Field TPH concentrations ranged from 47.8 mg/kg in S-1 up to 106 mg/kg in S-4. The field chloride concentration in SC-1 was 60 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 San Juan 28-5 #230 BGT Closure, July 2013

Sample ID	Date Sampled	Depth below BGT (ft)	VOCs OVM Reading (ppm)	Field TPH (418.1) (mg/kg)	Field Chloride: (mg/kg)
	NMOCD (NMAC 19.15.17	Action Level 7.13 Table 1)	7-	2,500	600*
S-1	7/11/13	0.5	6.5	47.8	NA
S-2	7/11/13	0.5	4.8	91.8	NA
S-3	7/11/13	0.5	4.1	96.1	NA
S-4	7/11/13	0.5	2.1	106	NA
S-5	7/11/13	0.5	1.7	94.7	NA
SC-1	7/11/13	0.5	6.1	89.0	60

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

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. TPH concentrations as GRO and DRO were reported at less than 5.0 mg/kg and less than 10 mg/kg, respectively. The laboratory chloride concentration was reported below the laboratory detection limit of 30 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results San Juan 28-5 #230 BGT Closure, July 2013

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	Chlorides (mg/kg)
(NMA	NMOCD Acti C 19.15.17.13		10	50	1,0	000	600*
SC-1	7/11/13	0.5	< 0.050	<0.25	<5.0	<10	<30

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

3.0 Conclusions and Recommendations

NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13 Table 1. Field TPH concentrations were below the NMOCD action level of 2,500 mg/kg, with the highest concentration reported in S-4, with 106 mg/kg. Laboratory analytical results for TPH (as GRO/DRO) in SC-1 were reported below the NMOCD action level of 1,000 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. Chloride concentrations in SC-1 were below the NMOCD action level of 600 mg/kg. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at the San Juan 28-5 #230.

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

Sincerely,

David Reese

Environmental Scientist

David g Reme

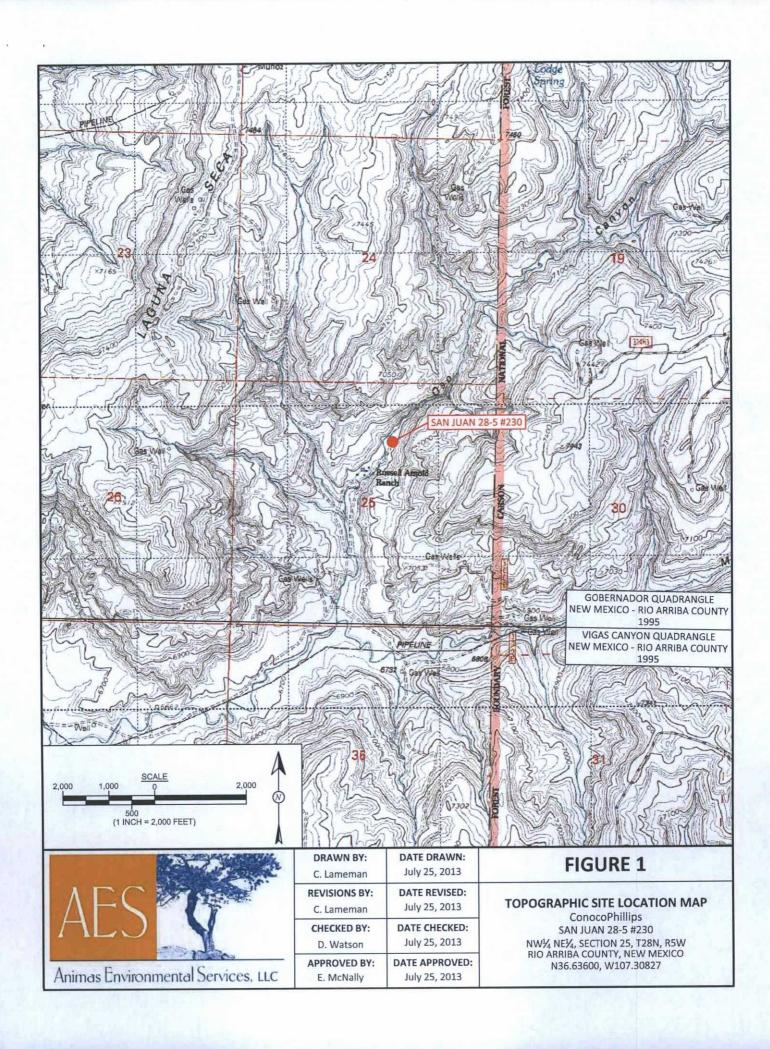
Lisa Hunter San Juan 28-5 #230 BGT Closure Report September 9, 2013 Page 5 of 5

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, July 2013 AES Field Screening Report 071113 Hall Analytical Report 1307545

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 28-5 #230\CoP San Juan 28-5 #230 BGT Closure Report 090913.docx





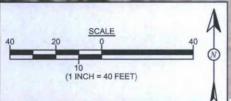
SAMPLE LOCATIONS

The state of the s	Field Scr	eening R	esults	
Sample ID	Date	OVM- PID (ppm)	418.1 TPH (mg/kg)	Chlorides (mg/kg)
NMOCD AC	TION LEVEL		2,500	600
S-1	7/11/13	6.5	47.8	NA
S-2	7/11/13	4.8	91.8	NA
S-3	7/11/13	4.1	96.1	NA
S-4	7/11/13	2.1	106	NA
S-5	7/11/13	1.7	94.7	NA
SC-1	7/11/13	6.1	NA	60

SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-5. NA - NOT ANALYZED

		Laborato	ry Analytica	al Results		
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACT	ION LEVEL	10	50	1,000		600
SC-1	7/11/13	<0.050	<0.25	<5.0	<10	<30
SAMPLE WAS	ANALYZED	PER EPA M	FTHOD 802	IB. 8015D A	ND 300.0.	

SAN JUAN 28-5 #230 WELL MONUMENT



AERIAL SOURCE: © 2013 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE



Animas Environmental Services, LLC

1	DRAWN BY:	DATE DRAWN:
	C. Lameman	July 25, 2013
١	REVISIONS BY:	DATE REVISED:
	C. Lameman	July 25, 2013
١	CHECKED BY:	DATE CHECKED:
	D. Watson	July 25, 2013
١	APPROVED BY:	DATE APPROVED
ı	E. McNally	July 25, 2013

FIGURE 2

AERIAL SITE MAP BELOW GRADE TANK CLOSURE JULY 2013

ConocoPhillips
SAN JUAN 28-5 #230
NW¼ NE¼, SECTION 25, T28N, R5W
RIO ARRIBA COUNTY, NEW MEXICO
N36.63600, W107.30827

AES Field Screening Report

Client: ConocoPhillips

Project Location: San Juan 28-5 #230

Date: 7/11/2013

Matrix: Soil



www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	7/11/2013	9:50	North	6.5	NA	10:27	47.8	20.0	1	HW
S-2	7/11/2013	9:52	South	4.8	NA	10:29	91.8	20.0	1	HW
S-3	7/11/2013	9:54	East	4.1	NA	10:32	96.1	20.0	1	HW
S-4	7/11/2013	9:56	West	2.1	NA	10:50	106	20.0	1	HW
S-5	7/11/2013	9:57	Center	1.7	NA	10:36	94.7	20.0	1	HW
SC-1	7/11/2013	10:00	Composite	6.1	60	10:09	89.0	20.0	1	HW

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with

Silver Nitrate

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Heather M. Woods

DF

Dilution Factor

NA ND Not Analyzed

Not Detected at the Reporting Limit

PQL

Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.



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

July 16, 2013

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

FAX

RE: COP San Juan 28-5 #230

OrderNo.: 1307545

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/12/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1307545

Date Reported: 7/16/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: COP San Juan 28-5 #230

Collection Date: 7/11/2013 10:00:00 AM

Lab ID: 1307545-001

Matrix: MEOH (SOIL) Received Date: 7/12/2013 10:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst:	JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/12/2013 12:44:44 PM	8339
Surr: DNOP	88.1	63-147	%REC	1	7/12/2013 12:44:44 PM	8339
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/12/2013 11:24:34 AM	R11895
Surr: BFB	95.8	80-120	%REC	1	7/12/2013 11:24:34 AM	R11895
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.050	mg/Kg	1	7/12/2013 11:24:34 AM	R11895
Toluene	ND	0.050	mg/Kg	1	7/12/2013 11:24:34 AM	R11895
Ethylbenzene	ND	0.050	mg/Kg	1	7/12/2013 11:24:34 AM	R11895
Xylenes, Total	ND	0.10	mg/Kg	1	7/12/2013 11:24:34 AM	R11895
Surr: 4-Bromofluorobenzene	99.1	80-120	%REC	1	7/12/2013 11:24:34 AM	R11895
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	7/12/2013 12:32:35 PM	8346

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit D.
 - ND Not Detected at the Reporting Limit Page 1 of 6
 P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307545

16-Jul-13

Client:

Animas Environmental

Project:

COP San Juan 28-5 #230

Sample ID MB-8346

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 8346

RunNo: 11931

Analysis Date: 7/12/2013

SeqNo: 339252

Units: mg/Kg

Analyte

Prep Date: 7/12/2013

HighLimit

RPDLimit

Qual

Chloride

Result PQL SPK value SPK Ref Val %REC LowLimit ND

TestCode: EPA Method 300.0: Anions

Sample ID LCS-8346 Client ID: LCSS

Batch ID: 8346

RunNo: 11931

Prep Date: 7/12/2013

SampType: LCS

SeqNo: 339253

Units: mg/Kg

%RPD

%RPD

Analyte

Client ID:

Prep Date:

Analysis Date: 7/12/2013

%REC

HighLimit

Chloride

15

PQL SPK value SPK Ref Val 1.5 15.00

99.3

0

LowLimit 90 110 **RPDLimit**

Qual

SampType: MS Batch ID: 8346

TestCode: EPA Method 300.0: Anions

RunNo: 11931 SeqNo: 339256

Units: mg/Kg

Analyte

BatchQC 7/12/2013

Sample ID 1307497-001AMS

Analysis Date: 7/12/2013

SPK value SPK Ref Val %REC 15.00 28.09

LowLimit

HighLimit

RPDLimit

Chloride

PQL

%RPD

Qual

Sample ID 1307497-001AMSD Client ID:

BatchQC

SampType: MSD

PQL

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 11931

Units: mg/Kg

Qual

Analyte Chloride

Prep Date: 7/12/2013

Batch ID: 8346 Analysis Date: 7/12/2013

Result

38

28.09

SPK value SPK Ref Val

15.00

SeqNo: 339257 %REC

65.2

LowLimit

58.8

HighLimit

109

%RPD 1.41

RPDLimit 20

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

RPD outside accepted recovery limits

RSD is greater than RSDlimit 0

Analyte detected in the associated Method Blank B

Holding times for preparation or analysis exceeded H

ND

Reporting Detection Limit

P

Not Detected at the Reporting Limit Sample pH greater than 2 for VOA and TOC only. Page 2 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307545

16-Jul-13

Client:

Animas Environmental

Project:

COP San Juan 28-5 #230

South Control of the Control											
Sample ID	MB-8339	SampTyp	e: M	BLK	Tes	tCode: E	PA Method	8015D: Diese	el Range (Organics	
Client ID:	PBS	Batch II	D: 83	339	F	RunNo: 1	1878				
Prep Date:	7/12/2013	Analysis Dat	e: 7	/12/2013	5	SeqNo: 3	37805	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Diesel Range (Surr: DNOP	Organics (DRO)	ND 7.9	10	10.00		79.3	63	147			
Sample ID	LCS-8339	SampTyp	e: LC	cs	Tes	tCode: E	PA Method	8015D: Diese	el Range (Organics	
Client ID:	LCSS	Batch II	D: 83	339	F	RunNo: 1	1878				
Prep Date:	7/12/2013	Analysis Dat	e: 7	/12/2013		SeqNo: 3	37806	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
	Organics (DRO)	46	10	50.00	0	92.1	77.1	128		r Muta s	
Surr: DNOP		4.6		5.000	Lyde	92.4	63	147	11.1	الملانية	
Sample ID	1307373-001AMS	SampTyp	e: M :	s	Tes	tCode: E	PA Method	8015D: Diese	Range (Organics	157
Client ID:	BatchQC	Batch II	D: 83	310	F	RunNo: 1	1878				
Prep Date:	7/10/2013	Analysis Date	e: 7	/12/2013	\$	SeqNo: 3	37949	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Surr: DNOP	Early Service	4.2		4.990		83.2	63	147			
Sample ID	1307373-001AMSE	SampTyp	e: M :	SD	Tes	tCode: E	PA Method	8015D: Diese	l Range (Organics	
Client ID:	BatchQC	Batch II	D: 83	10	F	RunNo: 1	1878				
Ciletti ID.			o. 7	/12/2013		SegNo: 3	37950	Units: %RE	С		
	7/10/2013	Analysis Date	e. /								
	7/10/2013		PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Prep Date:	7/10/2013					%REC 82.4	LowLimit 63	HighLimit 147	%RPD 0	RPDLimit 0	Qual
Prep Date: Analyte Surr: DNOP		Result	PQL	SPK value 5.010	SPK Ref Val	82.4	63		0	0	Qua
Prep Date: Analyte		Result 4.1	PQL e: Mi	SPK value 5.010	SPK Ref Val	82.4	63 PA Method	147	0	0	Qua
Prep Date: Analyte Surr: DNOP Sample ID Client ID:	MB-8360	Result 4.1 SampTyp	PQL e: MI D: 83	SPK value 5.010 BLK	SPK Ref Val	82.4 stCode: E	63 PA Method 1922	147	0 I Range (0	Qua
Prep Date: Analyte Surr: DNOP Sample ID Client ID:	MB-8360 PBS	Result 4.1 SampTyp Batch II Analysis Date	PQL e: MI D: 83	SPK value 5.010 BLK 660 //15/2013	SPK Ref Val	82.4 stCode: E RunNo: 1 SeqNo: 3	63 PA Method 1922	147 8015D: Diese	0 I Range (0	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date:	MB-8360 PBS	Result 4.1 SampTyp Batch II Analysis Date	PQL DE: MI DE: 83 DE: 7/	SPK value 5.010 BLK 660 //15/2013	SPK Ref Val Tes	82.4 stCode: E RunNo: 1 SeqNo: 3	63 PA Method 1922 39236	147 8015D: Diese Units: %RE	0 el Range (0 Organics	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte	MB-8360 PBS 7/12/2013	Result 4.1 SampTyp Batch II Analysis Date Result	PQL D: 83 e: 7/	SPK value 5.010 BLK 660 /15/2013 SPK value 10.00	SPK Ref Val Tes F S SPK Ref Val	82.4 stCode: E RunNo: 1 SeqNo: 3 %REC 79.5	63 PA Method 1922 39236 LowLimit 63	147 8015D: Diese Units: %RE	0 el Range (CCC %RPD	Organics RPDLimit	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte Surr: DNOP Sample ID	MB-8360 PBS 7/12/2013	Result 4.1 SampTyp Batch II Analysis Date Result 7.9	PQL DE: MI DE: 83 DE: 7/ PQL DE: LC	SPK value 5.010 BLK 660 /15/2013 SPK value 10.00	SPK Ref Val Tes SPK Ref Val Tes	82.4 stCode: E RunNo: 1 SeqNo: 3 %REC 79.5	63 PA Method 1922 39236 LowLimit 63 PA Method	147 8015D: Diese Units: %RE HighLimit 147	0 el Range (CCC %RPD	Organics RPDLimit	
Prep Date: Analyte Surr: DNOP Sample ID Client ID: Prep Date: Analyte Surr: DNOP Sample ID Client ID:	MB-8360 PBS 7/12/2013	Result 4.1 SampTyp Batch II Analysis Date Result 7.9 SampTyp	PQL D: 83 e: 7/ PQL De: LO D: 83	SPK value 5.010 BLK 660 /15/2013 SPK value 10.00	SPK Ref Val Tes SPK Ref Val Tes	82.4 stCode: E RunNo: 1 SeqNo: 3 %REC 79.5	63 PA Method 1922 39236 LowLimit 63 PA Method 1922	147 8015D: Diese Units: %RE HighLimit 147	0 Range (C %RPD	Organics RPDLimit	Qual

Qualifiers:

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

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

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1307545

16-Jul-13

Client:

Animas Environmental

	1307375-001AMS	SampTyp						8015D: Diese	el Range (Organics	
Client ID:	BatchQC	Batch II): 83	139	1	RunNo: 1	1922				
Prep Date:	7/12/2013	Analysis Dat	e: 7	/15/2013	5	SeqNo: 3	39248	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	45	10	50.05	12.78	63.6	61.3	138			
Surr: DNOP		3.8		5.005		75.5	63	147			
Sample ID	1307375-001AMSD	SampTyp	e: M	SD	Tes	tCode: E	PA Method	8015D: Diese	el Range (Organics	
Client ID:	BatchQC	Batch II	D: 83	139	F	RunNo: 1	1922				
Prep Date:	7/12/2013	Analysis Dat	e: 7	/15/2013	5	SeqNo: 3	39249	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	50	10	50.10	12.78	73.6	61.3	138	10.8	20	
Surr: DNOP		4.5		5.010		89.3	63	147	0	0	
Sample ID	MB-8347	SampTyp	e: M	BLK	Tes	tCode: E	PA Method	8015D: Diese	el Range (Organics	
Client ID:	PBS	Batch II	D: 83	47	F	RunNo: 1	1922				
Prep Date:	7/12/2013	Analysis Dat	e: 7	/15/2013	5	SeqNo: 3	39456	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	The state of the state of	8.6		10.00	2160 22-19	85.7	63	147	-6		
Sample ID	LCS-8347	SampTyp	e: LC	cs	Tes	tCode: E	PA Method	8015D: Diese	el Range (Organics	1
Client ID:	LCSS	Batch II	D: 83	47	F	RunNo: 1	1922				
	7/42/2042	Analysis Dat	e 7	/15/2013		SeqNo: 3	39457	Units: %RE	С		
Prep Date:	111212013	Alaiyolo Dat		1012010							

Qualifiers:

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

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 7/12/2013

Result

24

1000

PQL

5.0

WO#:

1307545

16-Jul-13

Client:

Animas Environmental

Project:

Prep Date: 7/11/2013

Gasoline Range Organics (GRO)

Analyte

Surr: BFB

COP San Juan 28-5 #230

Sample ID	SampType: MBLK Batch ID: R11895 Analysis Date: 7/12/2013			F	tCode: El RunNo: 1 SeqNo: 3	1895	d 8015D: Gasoline Range Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0		1, 11								
Surr: BFB	930		1000		93.3	80	120	1-1				
Sample ID LCS-8329	Samp	Гуре: LC	cs	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: LCSS	Batc	h ID: R1	11895	F	RunNo: 1	1895						

0

SPK value SPK Ref Val

25.00

1000

SeqNo: 338439

LowLimit

62.6

80

%REC

96.9

105

Units: mg/Kg

136

120

%RPD

RPDLimit

Qual

HighLimit

Qualifiers:

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

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

WO#: 1307545

16-Jul-13

Client:

Animas Environmental

Project:

Sample ID LCS-8329

COP San Juan 28-5 #230

Sample ID MB-8329	SampType: MBLK			Tes	tiles					
Client ID: PBS	Batc	h ID: R1	1895	F	RunNo: 1	1895				
Prep Date: 7/11/2013	Analysis [Date: 7/	12/2013	S	SeqNo: 3	38457	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	80	120			

Client ID: LCSS	Bato	h ID: R1	1895	F	RunNo: 1	1895				
Prep Date: 7/11/2013	Analysis [Date: 7/	12/2013	5	SeqNo: 3	38458	Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	1.000	0	92.7	80	120	4.4.0		
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

TestCode: EPA Method 8021B: Volatiles

Sample ID 13	807545-001AMS	Samp	Гуре: М	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: SC	C-1	Batc	h ID: R1	1895	F	RunNo: 1	1895				
Prep Date:		Analysis [Date: 7/	12/2013		SeqNo: 3	38460	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.42	0.050	1.000	0	42.2	67.3	145			S
Toluene		0.41	0.050	1.000	0	41.4	66.8	144			S
Ethylbenzene		0.41	0.050	1.000	0	41.2	61.9	153			S
Xylenes, Total		1.2	0.10	3.000	0	41.2	65.8	149			S
Surr: 4-Bromoflu	uorobenzene	1.0		1.000		105	80	120			

Sample ID 1307545-001AM	SD Samp	Type: MS	SD	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: SC-1	Batc	h ID: R1	1895	F	RunNo: 1	1895				
Prep Date:	Analysis E	Date: 7/	12/2013		SeqNo: 3	38461	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.050	1.000	0	66.9	67.3	145	45.1	20	SR
Toluene	0.65	0.050	1.000	0	64.9	66.8	144	44.2	20	SR
Ethylbenzene	0.65	0.050	1.000	0	64.7	61.9	153	44.4	20	R
Xylenes, Total	2.0	0.10	3.000	0	65.0	65.8	149	44.9	20	SR
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120	0	0	

Qualifiers:

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Page 6 of 6



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3075 F4Y: 505-345-4107

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

Sample Log-In Check List

Received by/date: 07/12/13				
Logged By: Lindsay Mangin 7/12/2013 10:03:00) AM	July Allego		
Completed By: Lindsay Mangin 7/12/2013 10:10:02	2 AM	of tythings		
Reviewed By:				
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier			
Log In				
Was an attempt made to cool the samples?	Yes 🗹	No 🗆	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗸	No 🗆		
9. Was preservative added to bottles?	Yes	No 🗹	NA 🗆	
10.VOA vials have zero headspace?	Yes	No 🗆	No VOA Vials	
11. Were any sample containers received broken?	Yes	No 🗹	# of a water and	
	3/19-1-		# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH: (<2 o	r >12 unless noted
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗸	No 🗆		
15. Were all holding times able to be met?	Yes 🗸	No 🗆	Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🗹	
Person Notified: Dat By Whom: Via: Regarding: Client Instructions:	,	Phone Fax	☐ In Person	
17. Additional remarks:			Let's be	
18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No	Seal Date	Signed By	0.00	

Client: Mailing	Chain-of-Custody Record Client: Animas Environmental Services Mailing Address: Lozy E. Comanche Farmington, NM 87401 Phone #: 505-564-2281 email or Fax#: QA/QC Package:			Project Name: CoP San Juan 20-5 #230 Project #:					HALL ENVIRONMENTA ANALYSIS LABORATOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request										
email or	Fax#: Package:	-564-2	□ Level 4 (Full Validation)	Project Mana				\$ (8021)	+ TPH (Gas only)	30/141109		SIMS)			PCB's	ues			
Accredit	AP .	□ Othe	r	Sampler: H	· Woods	বিভাগত ক্রাধার		+ 1441	+ TPH	RO / DI	118.1)		80	03,NO ₂	s / 8082		(AC		Or N
□ EDD Date	(Type)_	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNI 12012		BTEX + MESS	BTEX + MTBE	TPH 8015B (GRO / DRO / ****	TPH (Method 418.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (FCANO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)		Air Bubbles (Y or N)
7/11/13	1000	50:1	Sc-1	MeOH K:1-402	MeoH/-	-00)(×		X				X					
Date:	Time:	Relinquish	ed by:	Received by:		Date Tir	me	Ren	narks	3: Pol	I do	Conoc	la Oh	Illian					
7/1/13 1734 Heather M. Woods Date: Time: Relinquished by: 7/1/13 1800 CM Wout If necessary, samples submitted to Hall Environmental may be subc				Regeived by:	S or	Date Tir	me 003	WO Sup Use Ava	10: erui 10:	337: 30-: BEI	394 Carli UALG	s Re	y	Ora	lereo			Mart report.	inee

San Juan 28-5 Unit NP 230



