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.

			Saina Pe, N	VIVI 0/303	to the approp	Hate NWIOCD District Office.
	Propo		Pit, Below-Gr ve Method Per	rade Tank, or rmit or Closure	Plan Appli	cation
14289	or proposed alte	Closure of a p Modification Closure plan of the communication of the co	t or proposed altern bit, below-grade tan to an existing perm only submitted for a	k, or proposed altern it/or registration an existing permitted	or non-permitte	RECEIVED By kcollins at 7:58 am, Mar 09, 2016 d pit, below-grade tank,
	Instructions: Ple	ase submit one applic	cation (Form C-144)	per individual pit, beld	ow-grade tank or o	alternative request
						rface water, ground water or the nority's rules, regulations or ordinances.
1.	or does approval reneve	the operator of his resp	ponsionity to comply v	- I ally other approache	Bo to time that water	tority o raises, regardinate or oranimises.
Operator:	ConocoPhillips Compa	any OGRID #:2	<u> 217817</u>			
Address:	PO BOX 4289, Farmi	ngton, NM 87499				
Facility or w	vell name: <u>JICARILL</u>	A K 17M				
API Number	r:30-039-25842_	OCD Permit	t Number:			_
U/L or Qtr/0	Qtr O Section	on <u>12</u> Townshi	ip <u>25 N</u> Ra	nge 5 W Cor	unty: <u>Rio Arriba</u>	
Center of Pr	oposed Design: Latitu	ide <u>36.40923 °N</u>	Longitude107.3	<u>0779 ºW</u> NAD: □1	927 🛛 1983	
Surface Own	ner: 🗌 Federal 🗌 Sta	te 🗌 Private 🔯 Trib	al Trust or Indian All	otment		
2.						
W	bsection F, G or J of					
	☐ Drilling ☐ Work					
Leanner,	2 4 55 5			1 2 .1		Drilling Fluid ☐ yes ☐ no
Value V	20.2	e: Thicknessmil	I □ LLDPE □ HI	DPE PVC Othe	er	
String-R					to the state of th	
Liner Seams	:: Welded Fact	tory Other		_ Volume:bbl I	Dimensions: L	x Wx D
3.						
⊠ Below-g	rade tank: Subsection	on I of 19.15.17.11 N	MAC			
Volume:	Max. 120	bbl Type of	f fluid:Produ	iced Water		===
Tank Constr	uction material:	Metal		_		
☐ Seconda	ary containment with le	eak detection 🛛 Vis	sible sidewalls, liner,	6-inch lift and automat	ic overflow shut-o	ff
☐ Visible	sidewalls and liner	Visible sidewalls or	nly 🗌 Other			
Liner type:	Thickness	mil 🔲 🛚	HDPE ☐ PVC 🛛	OtherUNSPECI	FIED	
4.						
	ive Method:					
Submittal of	an exception request i	is required. Exception	ns must be submitted	to the Santa Fe Enviro	nmental Bureau o	ffice for consideration of approval.
5.						
				mporary pits, and belo		
Chain lir	nk, six feet in height, tw	wo strands of barbed v	vire at top (Required	if located within 1000 j	eet of a permanen	t residence, school, hospital,

Oly

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

institution or church)

☐ 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	
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 accematerial are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells	☐ Yes ☐ No ☑ 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	
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 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:	O NMAC 15.17.9 NMAC
11,	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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: or Permit Number:	.15.17.9 NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
### 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 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. <u>Proposed Closure</u> : 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit
Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only)	
On-site Closure Method (Only for temporary pits and closed-loop systems)	
☐ In-place Burial ☐ On-site Trench Burial ☐ Alternative Closure Method	
14. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC □ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC	
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable south provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. It 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 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	☐ 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 Within a 100-year floodplain.	Yes No
- 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 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. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	11 NMAC 15.17.11 NMAC
Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and believed to the best of the best of my knowledge and believed to the best of	ief.
Name (Print): Title:	-0)
Signature: Date:	
e-mail address: Telephone:	
18. OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (enly) ☐ OCD Conditions (see attachment)	
OCD Representative Signature: Approval Date: 04-08-	2016
OCD Representative Signature: Approval Date: 04-08-	2016
Envisormental Charielist	the closure report.
Title: Environmental Specialist OCD Permit Number: 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this

22.
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Kelly G. Roberts Title: Regulatory Technician
Signature: Date: 1/1/16
e-mail address: Kelly.Roberts@cop.com Telephone: (505) 326-9775

ConocoPhillips Company San Juan Basin Below Grade Tank Closure Report

Lease Name: JICARILLA K 17M

API No.: 30-039-25842

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

General Plan:

COPC shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13
 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of
 Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five
 years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier
 date that the division requires because of imminent danger to fresh water, public health or the environment. For any
 closure, COPC will file the C144 Closure Report as required.

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

COPC shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

COPC will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then COPC shall remove the equipment, unless the equipment is required for some other purpose.

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

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

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

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

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

A release was determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then COPC shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and re-vegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

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

Notification was not found.

9. The surface owner shall be notified of COPC's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner was not found.

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. COPC shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. COPC will repeat seeding or planting will be continued until successful vegetative growth occurs.

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

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
 - Soil Backfilling and Cover Installation (See Report)
 - Re-vegetation application rates and seeding techniques (See Report)
 - Photo documentation of the site reclamation (Included as an attachment)
 - Confirmation Sampling Results (Included as an attachment)
 - Proof of closure notice (Included as an attachment)

District I 1625 N. French Dr., Hobbs, NM 88240 District II 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

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

Form C-141

Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERA7	TOR	☐ Initia	al Report 🛛 Final Repor
		onocoPhillip					hley Maxwell		
		St., Farming	ton, NM 8	37402			No. 505-324-510	59	
Facility Nar	ne Jicarill	la K 17M				Facility Typ	e Gas Well		
Surface Ow	ner Jicari	lla Tribe		Mineral C)wner	Jicarilla Tr	ibe	API No	. 3003925842
									Contract Number 145
				LOCA	TIO	N OF RE	LEASE		
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line	County
o	12	025N	005W	790'		South	1850'	East	Rio Arriba
		,		Latitude 36.	409 1	Longitude_	-107.30758		
						OF REL		_	
Type of Rele	ase Produc	ction Fluids		3 200		Volume of	XII ATOUR MERKUNINEN	Volume R	ecovered
Source of Re	lease Belov	w Grade Tan	k			Unknown Date and H	Iour of Occurrenc	e Date and	Hour of Discovery
						9/4/2012			SC.
Was Immedia	ate Notice (Given?	Yes [No Not Re	equired	If YES, To	Whom?		
By Whom? A	shley Max	well				Date and I-	Iour		
Was a Water	course Reac		5	7		If YES, Vo	olume Impacting t	he Watercourse.	
		8 3		⊠ No					
		pacted, Descr			. 01.	Т1. О1	A -41-141		
		and Cleanup A		n Taken.* Below	Grade	Tank Closure	Activities		100000
					torv sta	andard by l	USEPA method	418.1 for TPH	confirming a release.
									ction levels. The excavation
									npling occurred.
Analytical	results we	re below the	e regulat	ory standards s	set fort	h by JANO	GA; therefore	no further action	n is needed.
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to tl	ne best of my	knowledge and u	nderstand that purs	uant to NMOCD rules and
									ases which may endanger
									eve the operator of liability
									surface water, human health ompliance with any other
		ws and/or regu			Sportu		- the operator of t		panj omor
Signature:		2 1					OIL CONS	SERVATION	DIVISION
oignature.	0								
Printed Name	: Ashley N	/Iaxwell			8	Approved by	Environmental Sp	pecialist:	
Colony		ntal Specialis	f			Approval Dat	e.	Expiration I	Date:
Title, Fleid I	JH TH OHINE	mai Specialis				Approvat Dai		L'Apiration 1	,
E-mail Addre	ss: ashley.	p.wethington	@conoco	phillips.com		Conditions of	Approval:		Attached
Date Decem	ber 3, 2012	P	hone: 50	5-324-5169					
Attach Addit					1,40				



November 16, 2012

Ashley Maxwell ConocoPhillips San Juan Business Unit Office 216-2 5525 Hwy 64 Farmington, New Mexico 87401

Farmington, NM 87401 505-564-2281

> Durango, Colorado 970-403-3274

624 E. Comanche

RE: Below Grade Tank Closure and Release Report

Jicarilla K #17M

Rio Arriba County, New Mexico

Dear Ms. Maxwell:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure and release confirmation at the ConocoPhillips (CoP) Jicarilla K #17M, located in Rio Arriba County, New Mexico. Tank removal was completed by CoP contractors prior to AES' arrival on site.

1.0 Site Information

1.1 Location

Site Name - Jicarilla K #17M

Legal Description - SW¼ SE¼, Section 12, T25N, R5W, Rio Arriba County, New Mexico Well Latitude/Longitude - N36.40896 and W107.30789, respectively BGT Latitude/Longitude - N36.40923 and W107.30779, respectively Land Jurisdiction – Jicarilla Apache Tribal Land

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, June 2012

1.2 Risk Ranking

The Jicarilla K #17M is located on Jicarilla Apache Tribal lands. Therefore, soil remediation action levels are determined by the Jicarilla Apache Nation Oil and Gas Administration (JANOGA). JANOGA remedial action levels for BGT closures are as follows: 0.2 mg/kg benzene, 50 mg/kg total BTEX (benzene, toluene, ethylbenzene, and xylenes), 100 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), motor oil range organics (MRO), and diesel range organics (DRO), and 250 mg/kg chlorides.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on June 13, 2012, and on the June 14, 2012, Tami Ross and Zachary Trujillo of AES met with Bruce Yazzie at the location. AES personnel collected six soil samples (S-1 through S-6) from the below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, and two samples were collected from the center of the BGT footprint (S-5 and S-6). A 6-point composite sample (SC-1) of the BGT footprint was collected for confirmation laboratory analysis. Additionally, one soil sample (S-7) was collected from an area of surface staining located to the southwest of the BGT.

2.0 Soil Sampling

On June 14, 2012, AES personnel conducted field screening and collected six soil samples (S-1 through S-6) and one 6-point composite (SC-1) from below the BGT. Samples S-1 through S-5 were collected at 0.5 feet below the BGT liner, and S-6 was collected from 2 feet below the depth of the BGT liner. Soil sample S-7 was at collected at 0.5 feet below ground surface (bgs) from an adjacent area of surface staining. Soil samples were collected for field screening of volatile organic compounds (VOCs), TPH, and chlorides. Soil samples SC-1 and S-7 were submitted for confirmation laboratory analyses. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.1.3 Chlorides

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

22 Laboratory Analyses

Samples SC-1 and S-7 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. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. The soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for GRO, DRO, and MRO per USEPA Method 8015B;
- Chlorides per USEPA Method 300.0.

23 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 15.7 ppm in S-3 up to 645 ppm in S-7. Field TPH concentrations ranged from 251 mg/kg in S-2 up to 4,560 mg/kg in S-1. Field screening VOC and TPH results are summarized in Table 1 and on Figure 2. The AES field screening report is attached.

Table 1. Soil Field Screening OVM, TPH and Chloride Results Jicarilla K #17M BGT Closure, June 2012

	Date	Depth below	VOCs OVM Reading	Field TPH	Chloride
Sample ID	Sampled	BGT (ft)	(ррт)	(mg/kg)	(mg/kg)
JANO	OGA Action Leve	·I		100	250
S-1	6/14/12	0.5	104	4,560	60
S-2	6/14/12	0.5	25.5	251	60
S-3	6/14/12	0.5	15.7	376	60
S-4	6/14/12	0.5	290	3,910	60
S-5	6/14/12	0.5	582	2,490	60
S-6	6/14/12	2	50.3	2,090	NA
S-7	6/14/12	0.5	645	NA	NA

NA - Not Analyzed

Laboratory analytical results for SC-1 and S-7 reported benzene concentrations below laboratory detection limits of 0.050 mg/kg and 0.25 mg/kg, respectively. Total BTEX concentrations were less than 0.21 mg/kg in SC-1 and 35 mg/kg in S-7. TPH concentrations were reported at 1,916 mg/kg in SC-1 and 6,140 mg/kg in S-7. The chloride concentration in SC-1 was less than 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
Jicarilla K #17M BGT Closure, June 2012

Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)	TPH- MRO (mg/kg)	Chlorides (mg/kg)
JANOG	A Action L	evel	0.2	50		100		250
SC-1	6/14/12	0.5 to 2	<0.050	<0.21	36	780	1,100	<30
S-7	6/14/12	0.5	<0.25	35	440	3,900	1,800	NA

NA - Not Analyzed

3.0 Conclusions

3.1 BGT Closure

Action levels for BGT closures on Jicarilla lands have been set by JANOGA. Field VOC concentrations exceeded 100 ppm in S-1, S-4, S-5, and S-7. Field TPH concentrations for samples S-1 through S-6 were reported above the applicable JANOGA action level of 100 mg/kg, with concentrations ranging from 251 mg/kg in S-2 up to 4,560 mg/kg in S-1. Based on field screening results on June 14, 2012, a release is confirmed at the Jicarilla K #17M BGT location.

3.2 Release Confirmation

Heather M. Woods

Soil laboratory analytical results reported benzene, total BTEX and chloride concentrations below JANOGA action levels in both SC-1 and S-7. However, TPH concentrations as GRO, DRO, and MRO exceeded the JANOGA action level of 100 mg/kg, and therefore a release is confirmed at the Jicarilla K #17M location. Release notification and abatement should follow the protocols specified under JANOGA regulations.

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

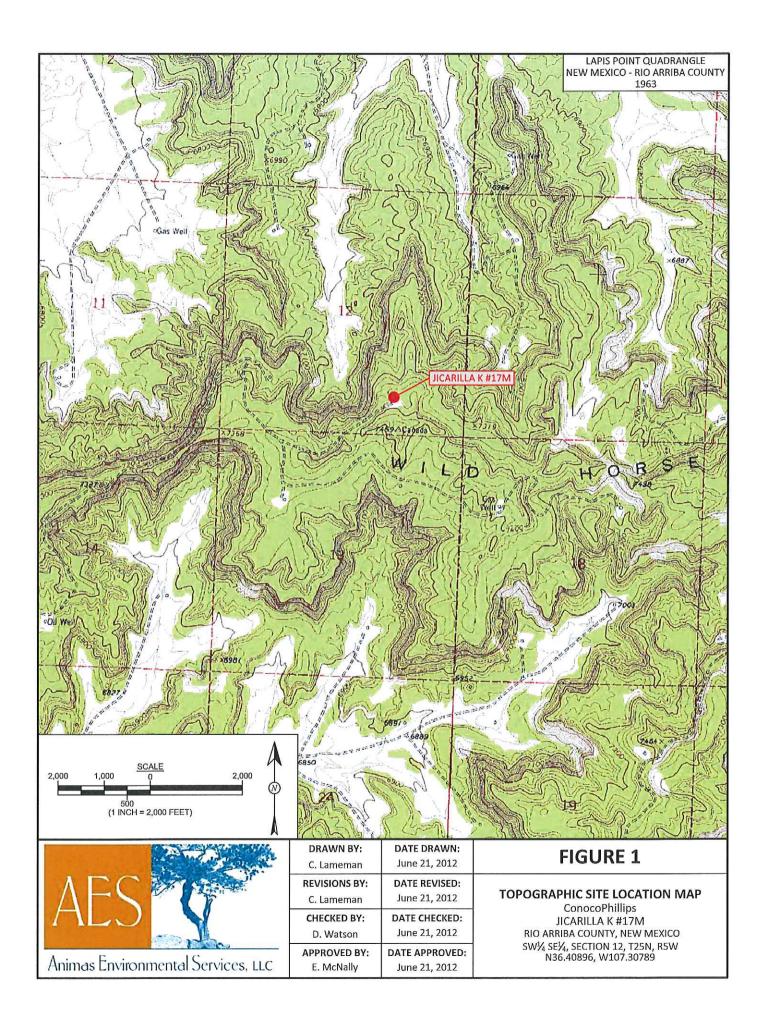
Ashley Maxwell Jicarilla K #17M BGT Closure and Release Report November 16, 2012 Page 5of 5

Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map Figure 2. Aerial Site Map, June 2012 AES Field Screening Report 061412 Hall Analytical Report 1206657

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SAMPLE LOCATIONS

	Field Scre	ening l	Results	
Sample ID	Date	OVM- PID (ppm)	TPH (mg/kg)	Chlorides (mg/kg)
NMOCD AC	TION LEVEL	100	100	250
S-1	6/14/12	104	4,560	60
S-2	6/14/12	25.5	251	60
S-3	6/14/12	15.7	376	60
S-4	6/14/12	290	3,910	60
S-5	6/14/12	582	2,490	60
S-6	6/14/12	50.3	2,090	NA
S-7	6/14/12	645	NA	NA

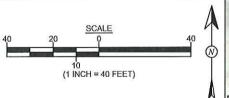
		Labore	atory Analy	tical Resul	ts		
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACT	ION LEVEL	0.2	50		100		250
SC-1	6/14/12	<0.050	0.21	36	780	1,100	<30
S-7	6/14/12	<0.25	35	440	3,900	1,800	NA

NOTE: ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B, 8015B AND 300.0. SC-1 IS A 6-POINT COMPOSITE SAMPLE OF S-1 THROUGH S-6.

NA - NOT ANALYZED



JICARILLA K #17M WELLHEAD



MAP SOURCE: (c) 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE

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	100

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	June 22, 2012
REVISIONS BY	777 1292 7212-912
CHECKED BY D. Watson	DATE CHECKED: June 22, 2012
APPROVED B'	Y: DATE APPROVED:
E. McNally	June 22, 2012

FIGURE 2

AERIAL SITE MAP BELOW GRADE TANK CLOSURE JUNE 2012

ConocoPhillips JICARILLA K #17M RIO ARRIBA COUNTY, NEW MEXICO SW¼ SE¼, SECTION 12, T25N, R5W N36.40896, W107.30789

AES Field Screening Report

Client: ConocoPhillips

Project Location: Jicarilla K#17M

Date: 6/14/2012

Matrix: Soil



624 E. Comanche Farmington, NM 87401 505-564-2281 Durango, Colorado 970-403-3274

		Time of			Field	Field TPH				TPH
	Collection	Sample	Sample	MVO	Chloride	Analysis	Field TPH*	TPH PQL		Analysts
Sample ID	Date	Collection	Location	(ppm)	(mg/kg)	Time	(mg/kg)	(mg/kg)	DF	Initials
S-1	6/14/2012	11:15	North	104	60	12:18	4,560	200	10	TCR
S-2	6/14/2012	11:25	East	25.5	60	12:21	251	20.0	1	TCR
S-3	6/14/2012	11:35	South	15.7	90	12:27	376	20.0	1	TCR
S-4	6/14/2012	11:45	West	290	60	12:32	3,910	200	10	TCR
S-5	6/14/2012	11:53	Center @ 0.5'	582	60	12:41	2,490	200	10	TCR
S-6	6/14/2012	12:44	Center @ 2'	50.3	NA	13:15	2,090	20.0	1	TCR
S-7	6/14/2012	13:14	Surface Stain	645	NA		Not 4	Not Analyzed for TPH.	'n.	

Practical Quantitation Limit PQL Not Detected at the Reporting Limit S

Not Analyzed

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

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Total Petroleum Hydrocarbons - USEPA 418.1 Analyst: Silver Nitrate

Report Finalized: 06/14/12



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

June 18, 2012

Tami Ross Animas Environmental Services 624 East Comanche Farmington, NM 87401

FAX

RE: Jicarilla K #17M OrderNo.: 1206657

Dear Tami Ross:

TEL: (505) 793-2072

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/15/2012 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.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1206657

Date Reported: 6/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

Jicarilla K #17M

1206657-001

Project:

Lab ID:

Client Sample ID: SC-1

Collection Date: 6/14/2012 11:55:00 AM Received Date: 6/15/2012 9:45:00 AM

Result RL Qual Units DF Analyses Date Analyzed **EPA METHOD 8015B: DIESEL RANGE ORGANICS** Analyst: JMP 6/15/2012 12:21:52 PM Diesel Range Organics (DRO) 780 97 mg/Kg 10 mg/Kg Motor Oil Range Organics (MRO) 1100 480 10 6/15/2012 12:21:52 PM Surr: DNOP 0 77.6-140 S %REC 10 6/15/2012 12:21:52 PM **EPA METHOD 8015B: GASOLINE RANGE** Analyst: RAA 1 6/15/2012 12:23:08 PM Gasoline Range Organics (GRO) 36 5.0 mg/Kg Surr: BFB 259 69.7-121 S %REC 1 6/15/2012 12:23:08 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 0.050 mg/Kg 1 6/15/2012 12:23:08 PM Toluene 0.21 0.050 6/15/2012 12:23:08 PM mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 6/15/2012 12:23:08 PM Xylenes, Total ND 0.10 mg/Kg 1 6/15/2012 12:23:08 PM %REC 6/15/2012 12:23:08 PM Surr: 4-Bromofluorobenzene 80-120 1 114 **EPA METHOD 300.0: ANIONS** Analyst: BRM Chloride ND 30 20 6/15/2012 12:04:25 PM mg/Kg

Matrix: MEOH (SOIL)

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 6

Analytical Report

Lab Order 1206657

Date Reported: 6/18/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services

1206657-002

Project:

Lab ID:

Jicarilla K #17M

Collection Date: 6/14/2012 1:18:00 PM

Matrix: MEOH (SOIL) Received Date: 6/15/2012 9:45:00 AM

Client Sample ID: SC-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	3900	98		mg/Kg	10	6/15/2012 12:45:06 PM
Motor Oil Range Organics (MRO)	1800	490		mg/Kg	10	6/15/2012 12:45:06 PM
Surr: DNOP	0	77.6-140	S	%REC	10	6/15/2012 12:45:06 PM
EPA METHOD 8015B: GASOLINE RAN	IGE					Analyst: RAA
Gasoline Range Organics (GRO)	440	25		mg/Kg	5	6/15/2012 12:53:49 PM
Surr: BFB	405	69.7-121	S	%REC	5	6/15/2012 12:53:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	6/15/2012 12:53:49 PM
Toluene	3.0	0.25		mg/Kg	5	6/15/2012 12:53:49 PM
Ethylbenzene	1.9	0.25		mg/Kg	5	6/15/2012 12:53:49 PM
Xylenes, Total	30	0.50		mg/Kg	5	6/15/2012 12:53:49 PM
Surr: 4-Bromofluorobenzene	118	80-120		%REC	5	6/15/2012 12:53:49 PM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

Value above quantitation range

Analyte detected below quantitation limits J

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit RL

Samples with CalcVal < MDL

Page 2 of 6

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206657

18-Jun-12

Client:

Animas Environmental Services

Project:

Jicarilla K #17M

Sample ID MB-2412

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBS

Batch ID: 2412

PQL

RunNo: 3478

Prep Date: 6/15/2012 Analysis Date: 6/15/2012

SeqNo: 97485

Units: mg/Kg

RPDLimit Qual

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD

Chloride

ND 1.5

Sample ID LCS-2412

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 2412

RunNo: 3478

Prep Date: 6/15/2012

SeqNo: 97486

Units: mg/Kg

Analyte

Analysis Date: 6/15/2012

%REC

LowLimit

%RPD

Qual

Chloride

Result 15

SPK value SPK Ref Val PQL 1.5 15.00

15.00

0 97.2

90

HighLimit 110 **RPDLimit**

Sample ID 1206526-001AMS

SampType: MS

TestCode: EPA Method 300.0: Anions

RunNo: 3478

Client ID: Prep Date:

BatchQC 6/15/2012 Batch ID: 2412

SeqNo: 97492

Units: mg/Kg

Analyte Chloride

6/15/2012

Analysis Date: 6/15/2012 Result PQL

19

SPK value SPK Ref Val

SPK value SPK Ref Val

SPK value SPK Ref Val

4.059

4 211

SPK value SPK Ref Val %REC

4.211

%REC 4.059 97.4

LowLimit 64.4

TestCode: EPA Method 300.0: Anions

LowLimit

64.4

HighLimit %RPD 117

RPDLimit

Qual

Qual

Prep Date:

Sample ID 1206526-001AMSD Client ID: BatchQC

SampType: MSD Batch ID: 2412

Analysis Date: 6/15/2012

PQL

15

RunNo: 3478

%REC

SeqNo: 97493

Units: mg/Kg

HighLimit

%RPD

%RPD

%RPD

3.49

6.59

RPDLimit

Analyte Chloride

15

SampType: MS

TestCode: EPA Method 300.0: Anions

Sample ID Client ID:

Prep Date:

1206527-001AMS BatchQC

Batch ID: 2412

PQL

7.5

RunNo: 3478

Result

Result

18

18

Result

6/15/2012

Analysis Date: 6/15/2012

15.00

15.00

15.00

SeqNo: 97498

LowLimit

Units: mg/Kg

HighLimit

117

117

RPDLimit

Qual

Analyte Chloride

Sample ID 1206527-001AMSD

SampType: MSD

Analysis Date: 6/15/2012

PQL

7.5

TestCode: EPA Method 300.0: Anions

Client ID:

BatchQC

Prep Date: 6/15/2012

Batch ID: 2412

RunNo: 3478

%REC

94.8

SeqNo: 97499

90.6

64.4

LowLimit

64.4

Units: mg/Kg HighLimit

RPDLimit Qual

20

Chloride

Analyte

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Η

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Page 3 of 6

Analyte detected below quantitation limits J R RPD outside accepted recovery limits

Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206657

18-Jun-12

Client:

Animas Environmental Services

Project:	Jicarilla F	K #17M									
Sample ID	MB-2414	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	PBS	Batch	ID: 24	14	F	RunNo: 3	419				
Prep Date:	6/15/2012	Analysis D	ate: 6/	15/2012	5	SeqNo: 9	7008	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		12		10.00		119	77.6	140			Taken Comment
Sample ID	LCS-2414	SampT	/pe: LC	S	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 24	14	F	RunNo: 3	419				
Prep Date:	6/15/2012	Analysis Da	ate: 6/	15/2012	S	SeqNo: 9	7060	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	36	10	50.00	0	71.9	52.6	130			
Surr: DNOP		5.1		5.000		102	77.6	140		A STATE OF THE STA	
Sample ID	1206628-001AMS	SampT	/pe: M \$	3	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	BatchQC	Batch	ID: 24	14	F	RunNo: 34	476				
Prep Date:	6/15/2012	Analysis Da	ate: 6/	17/2012	8	SeqNo: 9	7463	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	40	9.7	48.73	0	82.9	57.2	146			
Surr: DNOP		4.9		4.873		101	77.6	140			
Sample ID	1206628-001AMSE) SampTy	/pe: M \$	SD	Tes	tCode: EF	PA Method	8015B: Dies	el Range C	Organics	
Client ID:	BatchQC	Batch	ID: 24	14	F	RunNo: 34	476				
Prep Date:	6/15/2012	Analysis Da	ate: 6/	17/2012	S	SeqNo: 9	7464	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	37	9.9	49.26	0	74.8	57.2	146	9.20	24.5	
Surr: DNOP		4.9		4.926		98.5	77.6	140	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

Page 4 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206657

18-Jun-12

Client: Animas Environmental Services

Project: Jicarilla K #17M

Sample ID MB-2392 SampType: MBLK TestCode: EPA Method 8015B: Gasoline Range Client ID: PBS Batch ID: 2392 RunNo: 3464 Prep Date: 6/14/2012 Analysis Date: 6/15/2012 SeqNo: 97874 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 950 1000 121 94.8 69.7

Sample ID LCS-2392 SampType: LCS TestCode: EPA Method 8015B: Gasoline Range Batch ID: 2392 Client ID: LCSS RunNo: 3464 Prep Date: 6/14/2012 Analysis Date: 6/15/2012 SeqNo: 97903 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 31 5.0 25.00 0 123 98.5 133 Surr: BFB 960 1000 96.3 69.7 121

TestCode: EPA Method 8015B: Gasoline Range Sample ID 1206516-011AMS SampType: MS Client ID: BatchQC Batch ID: 2392 RunNo: 3464 Prep Date: 6/14/2012 Analysis Date: 6/16/2012 SeqNo: 97904 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 30 4.7 23.54 4.661 108 85.4 147 Surr: BFB 1000 941.6 108 69.7 121

SampType: MSD Sample ID 1206516-011AMSD TestCode: EPA Method 8015B: Gasoline Range Client ID: BatchQC Batch ID: 2392 RunNo: 3464 Prep Date: 6/14/2012 Analysis Date: 6/16/2012 SeqNo: 97905 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 33 4.8 24.06 4.661 119 85.4 147 9.99 19.2 940 962.5 97.6 121 0 Surr: BFB 69.7 0

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

Page 5 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1206657

18-Jun-12

Client:

Animas Environmental Services

Project:

Jicarilla K #17M

Sample ID MB-2392	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	n ID: 23	92	R	lunNo: 3	464				
Prep Date: 6/14/2012	Analysis D	ate: 6/	15/2012	S	SeqNo: 9	7991	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	0.91		1.000		90.7	80	120			

Sample ID LCS-2392	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 23	92	F	RunNo: 3	464				
Prep Date: 6/14/2012	Analysis D	ate: 6/	15/2012	\$	SeqNo: 9	7995	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.3	83.3	107			
Toluene	0.95	0.050	1.000	0	95.2	74.3	115			
Ethylbenzene	1.0	0.050	1.000	0	104	80.9	122			
Xylenes, Total	3.2	0.10	3.000	0	106	85.2	123			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID 1206524-001AM	S Samp	Туре: М	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Bato	h ID: 23	92	F	RunNo: 3	464				
Prep Date: 6/14/2012	Analysis [Date: 6/	16/2012	8	SeqNo: 9	7996	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.047	0.9407	0	106	67.2	113			
Toluene	0.97	0.047	0.9407	0.008163	103	62.1	116			
Ethylbenzene	1.1	0.047	0.9407	0	114	67.9	127			
Xylenes, Total	3.3	0.094	2.822	0.03499	115	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9407		114	80	120			

Sample ID 1206524-001AM	SD SampT	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: BatchQC	Batch	ID: 23	92	F	RunNo: 3	464				
Prep Date: 6/14/2012	Analysis D	ate: 6/	16/2012	5	SeqNo: 9	7997	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.047	0.9381	0	103	67.2	113	3.00	14.3	
Toluene	0.94	0.047	0.9381	0.008163	99.6	62.1	116	3.33	15.9	
Ethylbenzene	1.0	0.047	0.9381	0	111	67.9	127	2.34	14.4	
Xylenes, Total	3.2	0.094	2.814	0.03499	114	60.6	134	1.45	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9381		112	80	120	0	0	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

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

RL Reporting Detection Limit

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Hall Environmental Analysis Laborator) 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.con

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1206657 Received by/date: 6/15/2012 9:45:00 AM Logged By: Michelle Garcia Completed By: Michelle Garcia 6/15/2012 9:55:57 AM Milette Carrie Reviewed By: Chain of Custody Yes No . Not Present 1. Were seals intact? Yes V No Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA [] Yes V No 4 Coolers are present? (see 19. for cooler specific information) NA 🗌 Yes V No 5. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7. Sample(s) in proper container(s)? Yes V No 8. Sufficient sample volume for indicated test(s)? 9. Are samples (except VOA and ONG) properly preserved? Yes V No ... 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: 14. Are matrices correctly identified on Chain of Custody? Yes V No (<2 or >12 unless noted) Yes 🗸 No 🗌 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.) Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes \Boxed No \Boxed NA V Person Notified: Date: eMail Phone Fax In Person By Whom: Regarding: Client Instructions: 18. Additional remarks: 19. Cooler Information Seal Intact | Seal No | Seal Date Cooler No | Temp °C Condition Good

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