District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410	State of New Energy Minerals and N Departmo Oil Conservatio 1220 South St. F Santa Fe, NM	latural Resources ent n Division Francis Dr.	Form C- July 21, 2 For temporary pits, closed-loop sytems, and below-grac tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa F Environmental Bureau office and provide a copy to the
District IV 1220 S. St. Francis Dr., Santa Ed. NM, 87505			Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
1220 S. St. Francis Dr., Santa Fe, NM 87505	Pit, Closed-Loop System	Below Grad	a Tank or
, Q Prop	osed Alternative Method]		
~~\` 			ure I fan Application
U Type of action:	Permit of a pit, closed-loop sys	stem, below-grade ta	nk, or proposed alternative method
	X Closure of a pit, closed-loop sy	/stem, below-grade t	ank, or proposed alternative method
	Modification to an existing per	rmit	
	Closure plan only submitted for below-grade tank, or proposed		ted or non-permitted pit, closed-loop system,
Instructions: Please submit one a	pplication (Form C-144) per indivi	dual pit, closed-loor	o system, below-grade tank or alternative reque
Please be advised that approval o	f this request does not relieve the operator of lia	bility should operations res	ult in pollution of surface water, ground water or the overnmental authority's rules, regulations or ordinances.
1 Operator: Burlington Resources O	· · · · · · · · · · · · · · · · · · ·		OGRID#: 14538
Address: PO Box 4289, Farmingto		<u></u>	
Facility or well name: ATLANTIC			
· · · · · · · · · · · · · · · · · · ·	0-045-35137	OCD Permit Number	r:
U/L or Qtr/Qtr: G(SW/NE) Secti			0W County: SAN JUAN
Center of Proposed Design: Latitude		Longitude:	107.90301 °W NAD: 1927 X 19
		Tribal Trust or Indian	
Surface Owner: X Federal	State Private 1		
	7.11 NMAC rkover Cavitation P&A (Pre-set)		OIL CONS. DIV DI DEC 1 0 2012
	iner type: Thickness mil		HDPE PVC Other
	actory Other	jume:	
Liner Seams: Welded F			bbl Dimensions L x W x D
L_J L_J		'ime:	bbl Dimensions L x W x D
3	TANED	'Applies to	x Wx D activities which require prior approval of a permit or
3 Closed-loop System: Subsec Type of Operation: P& ▲ Drying Pad Ab Lined Unlined Liner Seams: Welded BY	Signatare Jonathan Kelly Jonathan Kelly (505) 334-6178 Ext 122 mil	'Applies to	
3 Closed-loop System: Subsec Type of Operation: P& A Drying Pad Ab Lined Unlined Liner Seams: Welded Welded BY P Below-grade tank: Subsection Volume:	ENIED	'Applies to	activities which require prior approval of a permit or
3 Closed-loop System: Subsec Type of Operation: P& A Drying Pad Ab Lined Unlined Liner Seams: Welded Welded Bt Volume: Bt Tank Construction material: Secondary containment with leak d Visible sidewalls and liner Visible sidewalls and liner	Sign truck Sign truck Jonathan Kelly Jonathan Kelly (505) 334-6178 Ext 122 mil (505) (5	Applies to میں وت اللی DPE Her, 6-inch lift and auto	activities which require prior approval of a permit or
3 Closed-loop System: Subsec Type of Operation: P& A Drying Pad Ab Lined Unlined Liner Seams: Welded Welded Bt Below-grade tank: Subsection Volume: H Tank Construction material: Secondary containment with leak d	Sign track Sign track Jonal han Kelly I of 19.15.17.11 NMAC obl Type of fluid: etection Visible sidewalls, lin	Applies to میں وت اللی DPE Her, 6-inch lift and auto	activities which require prior approval of a permit or
3 Closed-loop System: Subsec Type of Operation: P& A Drying Pad Ab Lined Unlined Liner Seams: Welded Welded Bt Volume: Below-grade tank: Subsection Volume: Tank Construction material: Secondary containment with leak d Visible sidewalls and liner Liner Type: Thickness 5	Sign truck Sign truck Jonathan Kelly Jonathan Kelly (505) 334-6178 Ext 122 mil (505) (5	Applies to میں وت اللی DPE Her, 6-inch lift and auto	activities which require prior approval of a permit or
3 Closed-loop System: Subsec Type of Operation: P& A Drying Pad Ab Lined Unlined Liner Seams: Welded Welded Bt Tank Construction material: Secondary containment with leak d Visible sidewalls and liner Liner Type:	Sign truck Sign truck Jonathan Kelly Jonathan Kelly (505) 334-6178 Ext 122 mil (505) (5	Applies to میں وت اللی DPE Her, 6-inch lift and auto	activities which require prior approval of a permit or

6 , <u>Fencing:</u> Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks)						
Chain link, six feet in height, two strands of barbed wire at top (<i>Required if located within 1000 feet of a permanent residence, school, hospital, institution or church</i>) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify						
7 Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other						
8 Signs: Subsection C of 19.15.17.11 NMAC 12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers X Signed in compliance with 19.15.3.103 NMAC						
9 Administrative Approvals 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: X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration pit for Pre-set) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	leration of appro	oval.				
¹⁰ <u>Siting Criteria (regarding permitting)</u> 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.						
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes	No				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other 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. (Applies to temporary, emergency, or cavitation pits and below-grade tanks)	∏Yes ∏NA	No				
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image						
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Image: Comparison of the proposed site; Aerial photo; Satellite image • Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Image: Comparison of the proposed site; Aerial photo; Satellite image						
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.						
 NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site. Within 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. 						
 Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division 						
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	No				
Within a 100-year floodplain Yes - FEMA map						

			ent ChecklistSubsection B of 19.15.17.9 NMAC eck mark in the box, that the documents are attached.
			aph (4) of Subsection B of 19.15.17.9 NMAC of Paragraph (2) of Subsection B of 19.15.17.9
=	pliance Demonstrations - based upor		
	upon the appropriate requirements of		
	tenance Plan - based upon the appro		17.12 NMAC
Closure Plan (Pleas			ppropriate requirements of Subsection C of
Previously Approved D	Design (attach copy of design)	API	or Permit
Instructions: Each of the follo		ication. Please indicate, by a che	NMAC ck mark in the box, that the documents are attached. ments of Paragraph (3) of Subsection B of 19.15.17.9
Siting Criteria Com	pliance Demonstrations (only for on	site closure) - based upon the	e appropriate requirements of 19.15.17.10 NMAC
Design Plan - based	l upon the appropriate requirements of	of 19.15.17.11 NMAC	
Operating and Mair	ntenance Plan - based upon the appro	opriate requirements of 19.15.	17.12 NMAC
Closure Plan (Pleas NMAC and 19.15.1	• •	applicable) - based upon the a	appropriate requirements of Subsection C of 19.15.17.9
Previously Approved D	Design (attach copy of design)	API	
	perating and Maintenance Plan	API	
13			
	pplication Checklist: Subsection I	B of 19.15.17.9 NMAC	
Instructions: Each of the fol	lowing items must be attached to the app	plication. Please indicate, by a c	heck mark in the box, that the documents are attached.
Hydrogeologic Rep	ort - based upon the requirements of	f Paragraph (I) of Subsection	B of 19.15.17.9 NMAC
Siting Criteria Com	pliance Demonstrations - based upor	n the appropriate requirement	ts of 19.15.17.10 NMAC
Climatological Facto	ors Assessment		
Certified Engineeri	ng Design Plans - based upon the app	propriate requirements of 19.	15.17.11 NMAC
Dike Protection and	l Structural Integrity Design: based u	upon the appropriate requirem	nents of 19.15.17.11 NMAC
Leak Detection Des	sign - based upon the appropriate req	juirements of 19.15.17.11 NM	1AC
Liner Specification	s and Compatibility Assessment - ba	used upon the appropriate requ	uirements of 19.15.17.11 NMAC
Quality Control/Qu	ality Assurance Construction and Ins	stallation Plan	
Operating and Main	ntenance Plan - based upon the appro	opriate requirements of 19.15	.17.12 NMAC
Freeboard and Over	rtopping Prevention Plan - based upo	on the appropriate requiremer	nts of 19.15.17.11 NMAC
Nuisance or Hazard	lous Odors, including H2S, Prevention	on Plan	
Emergency Respon	se Plan		
Oil Field Waste Str	eam Characterization		
Monitoring and Ins	pection Plan		
Erosion Control Pla			
Closure Plan - base	d upon the appropriate requirements	of Subsection C of 19.15.17.	9 NMAC and 19.15.17.13 NMAC
14 December 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,			
Proposed Closure: 19.15 Instructions: Please complet	te the applicable boxes, Boxes 14 throug	th 18, in regards to the proposed	closure plan.
Type: Drilling We	orkover Emergency X Cavitatio	n P&A Permanent F	Pit Below-grade Tank Closed-loop System
Alternative	—		
Proposed Closure Method:	Waste Excavation and Removal		
	Waste Removal (Closed-loop sys	• •	
	On-site Closure Method (only for	r temporary pits and closed-loo	p systems)
	In-place Burial	On-site Trench	
	Alternative Closure Method (Exc	ceptions must be submitted to t	he Santa Fe Environmental Bureau for consideration)
15			
	emoval Closure Plan Checklist(19.	.15.17.13 NMAC) Instructions:	Each of the following items must be attached to the closure p
	nark in the box, that the documents are		
	edures - based upon the appropriate r	-	
Confirmation Same	oling Plan (if applicable) - based upo	n the appropriate requiremen	ts of Subsection F of 19.15.17.13 NMAC
Disposal Facility N	. –	s, drilling fluids and drill cutti	
Disposal Facility N	. –	-	ngs) ients of Subsection H of 19.15.17.13 NMAC
Disposal Facility N Soil Backfill and C	. –	upon the appropriate requirem	ents of Subsection H of 19.15.17.13 NMAC

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16 Waste Removal <u>Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins O</u>	<u>11y:(</u> 19.15.17.13.D NMAC)			
Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use facilities are required.	atlachment if more than two			
Disposal Facility Name: Envirotech / JFJ Landfarm % IEI Disposal Facility Permit #	NM-01-0011 / NM-01-0010B			
Disposal Facility Name: Basin Disposal Facility Disposal Facility Permit #	· · · · · · · · · · · · · · · ·			
Will any of the proposed closed-loop system operations and associated activities occur on or in areas th Yes (If yes, please provide the information No	at will nbe used for future service and			
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsc Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMA Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMA	с			
17 <u>Siting Criteria (Regarding on-site closure methods only:</u> 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10	which must be submitted to the Santa Fe Environmental Bureau			
Ground water is less than 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 between 50 and 100 feet below the bottom of the buried waste	Yes No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	N/A			
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No			
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	N/A			
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, (measured from the ordinary high-water mark).	sinkhole, or playa lake Yes No			
- Topographic map; Visual inspection (certification) of the proposed site				
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	application.			
	Yes No			
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for dom purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	•			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a munic pursuant to NMSA 1978, Section 3-27-3, as amended.	ipal ordinance adopted			
- Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland				
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the p	roposed site			
Within the area overlying a subsurface mine. - Written confiration or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No			
Within an unstable area.	Yes No			
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Topographic map 	Geological Society;			
Within a 100-year floodplain. - FEMA map	Yes No			
¹⁸ <u>On-Site Closure Plan Checklist:</u> (19.15.17.13 NMAC) Instructions: Each of the following items multiply a check mark in the box, that the documents are attached.	ist bee attached to the closure plan. Please indicate,			
Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.				
Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19				
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requireme				
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC				

Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
 Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

1				
19				
	ation Certification: the information submitted with this application is true, ac	aurate and complete to the h	act of my knowledge and belief	
Name (Print):		T : 4	est of my knowledge and benef.	
· · · · -				
Signature:		Date:		
e-mail address:		Telephone:	al an	
20				
OCD Approval:	Permit Applic		OCD Conditions (see attachment)	
		IIED	— , .	
OCD Representat	tive Signature:		Approval Date:	
Title:	MOlanc		Number:	
21				
	required within 60 days of closure completion):			
			re activities and submitting the closure report. The closure . Please do not complete this section of the form until an	
	in has been obtained and the closure activities have been		. Theuse up not complete this section of the form until an	
		Closur	re Completion Date: 5/1/2012	
· · · · · · · · · · · · · · · · · · ·				·····
22 Closure Methody				
Closure Method:	vation and Removal On-site Closure Method			
		Alternative Closure	Method Waste Removal (Closed-loop systems only)	
	rom approved plan, please explain.			1 -1 -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
23				
	zarding Waste Removal Closure For Closed-loop Syst			
were utilized.	taenity the facility of facilities for where the liquids, a	ritting jiutas and artit cuttin	gs were disposed. Use attachment if more than two facilities	
Disposal Facility	Name:	Disposal Facilit	y Permit Number:	
Disposal Facility	Name:	Disposal Facility	y Permit Number:	
Were the closed-	loop system operations and associated activities perform	ed on or in areas that will not	t be used for future service and opeartions?	
Yes (If yes, j	please demonstrate complilane to the items below)	No	4	
Required for imp	acted areas which will not be used for future service and	l operations:		
	ation (Photo Documentation)		· .	
	ing and Cover Installation			
Re-vegetatio	on Application Rates and Seeding Technique			
24				
		following items must be atta	sched to the closure report. Please indicate, by a check mark in	
	documents are attached. losure Notice (surface owner and division)			
	eed Notice (required for on-site closure)			
	for on-site closures and temporary pits)			
	on Sampling Analytical Results (if applicable)			
	erial Sampling Analytical Results (if applicable)			
	acility Name and Permit Number			
	illing and Cover Installation			
	ion Application Rates and Seeding Technique			
	nation (Photo Documentation)			
	osure Location: Latitude:	Longitude:	NAD 1927 1983	
		~~		
			······	
25 Operator Closure	e Certification:			
		ure report is ture, accurate i	and complete to the best of my knowledge and belief. I also certify a	that
	with all applicable closure requirements and conditions			
Name (Print):	Jamie Goodwin	Title:	Regulatory Technician	
-	Jamie Goodwill	1 IUC	Regulatory Technician	
Signature:		Date:		
e-mail address:	jamie.l.goodwin@conocophillips.com	Telephone:	505-326-9784	
L				

Burlington Resources Oil & Gas Company, LP Cavitation Pit for Closed-Loop Locations

Design:

Burlington Resources Oil & Gas Company, LP will use a cavitation pit plan when the surface casing will be pre-set on closed-loop locations. The drill cuttings will be stockpiled on the surface.

Operations and Maintenance:

The cavitation pit will be operated and maintained as follows:

- 1. Only Fresh water and air will be used in the drilling of the surface casing.
- 2. The Cement used will be: Neat Cement with no additives.
- 3. All of the fluids will be removed within 48hrs after drilling.
- 4. A representative five point composite sample will be taken of the drill cuttings, after the setting of the surface casing is complete, using sampling tools and all samples will be tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the testing criteria is not met, all contents will be dug and hauled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e.

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	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	500

5. The NMOCD will be notified via email of the test results of the cavitation surface as follows:

Components	Tests Method	Limit (mg/Kg)	Results
Benzene	EPA SW-846 8021B or 8260B	0.2	ND
BTEX	EPA SW-846 8021B or 8260B	50	ND
TPH	EPA SW-846 418.1	2500	1330
GRO/DRO	EPA SW-846 8015M	500	116
Chlorides	EPA 300.1	500	20

Closure Plan:

- 1. The NMOCD will be notified of the sample results and the intent to start the closure process 3-7 days prior to the drill cuttings being transported, moved, or distributed on location.
- In the event the criteria are not met, all solids and liquids will be removed and disposed of at Envirotech (Permit #NM-01-0011) and/or Basin Disposal Facility (Permit #NM-01-005) and/or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B).
- 3. Testing results will be submitted with the Closure Report of the well locations Closed-Loop Permit on Form C-144.

Burlington Resources is aware that approval of this plan does not relieve Burlington Resources of liability should operations result in pollution of surface water, ground water, or the environment. Nor does approval relieve ConocoPhillips of its responsibility to comply with any other applicable governmental authority's rules and regulations.



Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Air Preset Cuttings	Date Reported:	05-02-12
Laboratory Number:	61966	Date Sampled:	05-01-12
Chain of Custody No:	09553	Date Received:	05-01-12
Sample Matrix:	Soil	Date Extracted:	05-01-12
Preservative:	Cool	Date Analyzed:	05-02-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	116	0.1
Total Petroleum Hydrocarbons	116	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Atlantic A #8C

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879

envirotech Analytical Laboratory

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC		Project #:		N/A
Sample ID:	0502TCAL QA/	QC	Date Reported:		05-02-12
Laboratory Number:	61960		Date Sampled:		N/A
Sample Matrix:	Methylene Chlo	oride	Date Received:		N/A
Preservative:	N/A		Date Analyzed:	•	05-02-12
Condition:	N/A		Analysis Reque	sted:	ТРН
	Sali Date) {	U:Cal RF:::::	C-Cal RE	% Difference	Accept: Range
Gasoline Range C5 - C10	05-02-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	05-02-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Blank Conc. (mg/L - mg	/Kg)	Concentration]	Detection Lim	
Gasoline Range C5 - C10		ND		0.2	n-meny'
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbo	ons	ND			
Duplicate Conc. (mg/Kg) Sample	Duplicate	% Difference //	Accept Rang	e
Gasoline Range C5 - C10	55.5	56.2	1.3%	0 - 30%	Cher C
Diesel Range C10 - C28	24.2	24.7	2.1%	0 - 30%	
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result.	% Recovery	Accept Range
Gasoline Range C5 - C10	55.5	250	319	105%	75 - 125%
Diesel Range C10 - C28	24.2	250	325	119%	75 - 12 5%
	· · ·				

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Was SW-846, USEPA, December 1996.

Comments:

QA/QC for Samples 61960-61961 and 61963-61966

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879





Client:	ConocoPhillips		Project #:		96052-1706
Sample ID:	Air Preset Cuttings	i .	Date Reported:		05-02-12
Laboratory Number:	61966		Date Sampled:		05-01-12
Chain of Custody:	09553		Date Received:		05- 01- 12
Sample Matrix:	Soil		Date Analyzed:		05-02-12
Preservative:	Cool		Date Extracted:		05-01-12
Condition:	Intact		Analysis Requested	:	BTEX
			Dilution:		50
				Det.	
		Concentration	n	Limit	
Parameter		(ug/Kg)		(ug/Kg)	
Benzene		ND		10.0	
Toluene		ND		10.0	
Ethylbenzene		ND		10.0	
p,m-Xylene		ND		10.0	
o-Xylene		ND		10.0	
Total BTEX		ND			•

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:		Parameter	Percent Recovery
		Fluorobenzene	97.9 %
·		1,4-difluorobenzene	102 %
		Bromochlorobenzene	101 %
References:	Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.		
		021B, Aromatic Völatile Organics, Test M December 1996.	ethods for Evaluating Solid Waste, SW-846
Comments:	Atlantio	c A #8C	

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

P

envirotech Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID:	N/A 050	2BCAL QA/QC		Project #: Date Reported:	N/. 05	A -02-12
Laboratory Number				Date Sampled:	N/	
Sample Matrix:	Soil			Date Received:	N/	
Preservative:	N/A			Date Analyzed:	05	-02-12
Condition:	N/A	- \		Analysis:		EX ·
				Dilution:	50	
Calibration and		I-Cal RE	C-Call RF.	A STATE AND AND A	Blank	Detect.
Detection Limi	ts (ug/L)	Á A	ccept: Range 0-15%		Conc	Limit
Benzene		4.8649E-06	4.8649E-06	0.000	ND	0.2
Toluene		4.7477E-06	4.7477E-06	0.000	ND	0.2
Ethylbenzene		5.3483É-06	5.3483E-06	0.000	ND.	0.2
p,m-Xylene	·	3.9887E-06	3.9887E-06	0.000	ND	0.2
o-Xylene		5.6937E-06	5.6937E-06	0.000	ND	0.2
Duplicate Conc.	(ug/Kg);	Sample	Duplieate		ccept Range	Detect. Limit
Benzene		ND	ND	0.00	0 - 30%	10
Toluene		ND	ND	0.00	0 - 30%	10
Ethylbenzene		ND	ND	0.00	0 - 30%	10
p,m-Xylene		ND	ND	··· 0.00	0 - 30%	10.
o-Xylene		ND	ND	0.00	0 - 30%	10
Spike Conc. (uc	í/Kģ)	Sample 7.	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene		ND	2500	2640	106	39 - 150
Toluene		ŅD	2500	2640	106	46 - 148
Ethylbenzeñe		ND	2500	2620	105	32 - 160
p,m-Xylene		ND	5000	5240	105	46 - 148
o-Xylene		ND	2500	2630	105	46 - 148
ND - Parameter n	ot detected at the stat	ed detection lim	iit.			·
Dilution: Spike ar	id spiked sample cond	centration repre	sent a dilution (proportional to sar	nple dilution.	•
References:	Method 5030B, Purge	e-and-Trap, Test N	lethods for Evalua	ting Solid Waste, SV	/-846, USEPA,	
	December 1996. Method 8021B, Arom Photolonization and/o		-			

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 61946-61949, 61951, 61963-61965 and 61966

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 Fx (505) 632-1865

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 Fr (800) 362-1879



envirotech total PETROLEUM HYDROCARBONS Analytical Laboratory

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Air Preset Cuttings	Date Reported:	05-02-12
Laboratory Number:	61966	Date Sampled:	05-01-12
Chain of Custody No:	09553	Date Received:	05-01-12
Sample Matrix:	Soil	Date Extracted:	05-01-12
Preservative:	Cool	Date Analyzed:	05-01-12
Condition:	Intact	Analysis Needed:	TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

1,330

Total Petroleum Hydrocarbons

ND = Parameter not detected at the stated detection limit.

References:

P

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Atlantic A #8C

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7.4



envirotech EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS Analytical Laboratory QUALITY ASSURANCE REPORT

Spike Conc. (i	ng/Kg)	Sample.	Spike Added	Spike Result-%	Recovery	Accept Range
Randar alkanan sa kungalan an a sa ana ang						······
TPH			1,330	1,478	11.1%	+/- 30%
Duplicate Con	c⊧(mg/Kg)		Sample	Duplicate %	Difference	Accept. Range
-					•	
ТРН	-		ND		7.4	
Blank Conc. (r	ng/Kg)		Concentration	De	tection Li	nit
	04-26-12	05-01-12	1,850	1,720	7.0%	+/- 10%
Calibration	CALL AND A SAME AND A DATE	C-Cáll Dater	I-Cal RF	And the second se	Difference	Accept Range
Condition:		N/A		Analysis Needed:		ТРН
Preservative:		N/A		Date Extracted:		05-01-12
Sample Matrix:		Freon-113		Date Analyzed:		05-01-12
Laboratory Numbe	r:	05-01-TPH.QA/C	C 61966	Date Sampled:		N/A
Sample ID:		QA/QC		Date Reported:		05-02-12
Client:		QA/QC		Project #:		N/A

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 61966-61971.

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Chloride

Client:	ConocoPhillips	Project #:	96052 - 1706
Sample ID:	Air Preset Cuttings	Date Reported:	05-02-12
Lab ID#:	61966	Date Sampled:	05-01-12
Sample Matrix:	Soil	Date Received:	05-01-12
Preservative:	Cool	Date Analyzed:	05-02-12
Condition:	Intact	Chain of Custody:	09553

Parameter

Concentration (mg/Kg)

Total Chloride

20

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Atlantic A #8C

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 Fr (800) 362-1879



DATE: 12/7/12

WELL NAME: ATLANIC A 8C API# 30-045-35137

MISSING DATA: E-MAIL TO NMOCD - NMOCD will be notified of the sample results and the intent to start the closure process 3-7 days prior to the drill cuttings being transported, moved, or distributed on location.

NMOCD sampling/closure notice via; e-mail was not sent to NMOCD due to communication break down. This has been corrected by COPC by updating procedures with the correct process to drilling. The updated process is to contact NMOCD by emailing move on date, samples and closer report directly to Jonathan Kelly and Brandon Powell at the NMOCD.

Jamie Goodwin ConocoPhillips 505-326-9784

De sustant de sultandicia Calificiation:				
Dperator Application Certification: hereby certify that the information submitted with	this application is true, accurate	and complete to the best of my I	knowledge and belief.	
Name (Prinit):		Title:		
6 1		Date:	<u> </u>	
e-mail address:		Telephone:		
20 OCD Approval: Permit Application (in	cluding clósure pláň)	Closure Plan (only)	CD Conditions (see attacht	nent)
			,	,
OCD Representative Signature:			Approval Date:	
Title:		OCD Permit Num	ber:	
21 <u>Closure Report (required within 60 days of</u> Instructions: Operators are required to obtain an a report is required to be submitted to the division we approved closure plan has been obtained and the c	pproved closure plan prior to i thin 60 days of the completion i	mplementing any closure activitie of the closure activities. Please a	es and submitting the closure i to not complete this section of	eport. The closure the form until an
		Closure Comp	letion Date:	5/1/2012
22.		·····		
Closure Method: Waste Excavation and Reinoval]On-șite Closure Mețhod	X Alternative Closure Method	Waste Removal (Close	ed-loop systems, only)
Disposal Facility Name:		Disposal Facility Permit N		
Disposal Facility Name: Were the closed-loop system operations and asi Yes (If yes, please demonstrate compliant Required for impacted areas which will not be Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation	to the items below) .]No.	Number:	ońs?
Disposal Facility Name: Were the closed-loop system operations and as Yes (If yes, please demonstrate compliant Required for impucied areas which will not be Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seed	to the items below) .	or in areas that <i>will not</i> be used No.	Number:	ońs?
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