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

District II

1301 W Grand Ave , Artesia, NM 88210

1000 Rio Brazos Rd , 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 July 21, 2008

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

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

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		Pit, Closed-Loop System, Below-Grade Tank, or
011	<u>Prop</u>	posed Alternative Method Permit or Closure Plan Application
<i>o</i> `	Type of action:	Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
		X Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
		Modification to an existing permit
		Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instruc	tions: Please submit one	application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
	* *	of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the lieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances

Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: SAN JUAN 29-7 UNIT 77N
API Number: 30-039-30993 OCD Permit Number:
U/L or Qtr/Qtr: O(SW/SE) Section: 33 Township: 29N Range: 7W County: Rio Arriba
Center of Proposed Design: Latitude: 36.6782816 °N Longitude: 107.572508 °W NAD: 1927 X 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
RCVD FEB 17 '12 RCVD FEB 17 '12 OIL CONS. DIV.
Permanent Emergency X Cavitation P&A (Pre-set)
Lined Unlined Liner type Thickness mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams
Closed-loop System: Subsection H of 19.15 17 11 NMAC Type of Operation. P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type. Thickness mil LLDPE HDPE PVD Other Liner Seams. Welded Factory Other
Below-grade tank: Subsection 1 of 19.15.17.11 NMAC Volume. bbl Type of fluid: Tank Construction material 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
5 Alternative Method:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

Fencing: 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 (Required if located within 1000 feet of a permanent residence, school, hospital, instituted in Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify	ution or church	1)
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)		
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		
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.	deration of app	roval.
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 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.	Yes	□No
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA	
- 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. (Applied to permanent pits)	Yes NA	∐No
 Visual inspection (certification) 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. 	Yes	□No
- 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	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
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	Yes	No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	No
Within a 100-year floodplain - FEMA map	Yes	No

Form C-144 Oil Conservation Division Page 2 of 5

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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 X Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative	
Type: Drilling Workover Emergency X Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (only for temporary pits and closed-loop systems) In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Waste Excavation and Removal Closure Plan Checklist (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. 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 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	
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In-place Burial On-site Trench Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) 15 Waste Excavation and Removal Closure Plan Checklist (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. 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 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	
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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	
Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	
L 186 regenation France appoint the appropriate requirements of subsection For 12.13.17.13 Market	
Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	

Form C-144 Oil Conservation Division Page 3 of 5

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (Instructions Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use atta	19.15 17.13.D NMAC) chment if more than two			
facilities are required		ļ		
Disposal Facility Name: Envirotech / JFJ Landfarm % IEI Disposal Facility Permit #: NN				
Disposal Facility Name: Basin Disposal Facility Disposal Facility Permit #: NN				
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will yes (If yes, please provide the information No	il 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 Subsection 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 NMA				
17				
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 source in certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which office for consideration of approval Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 10 NM.	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 - tWATERS 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 - (WATERS database search, USGS, Data obtained from nearby wells				
Ground water is more than 100 feet below the bottom of the buried waste.	Yes No			
- NM Office of the State Engineer - (WATERS 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, sinkly (measured from the ordinary high-water mark)	ole. or playa lake			
- Topographic map. Visual inspection (certification) of the proposed site	□ Vos □ No			
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application (certification) of the proposed site; Aerial photo; satellite image	Yes No			
Within 500 horizontal feet of a private, domestic fiesh water well or spring that less than five households use for domestic purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial appleable. NM Office of the State Engineer - iWATERS database. Visual inspection (certification) of the proposed site	or stock watering			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal opursuant to NMSA 1978, Section 3-27-3, as amended	ordinance adopted Yes No			
- Written confirmation or verification from the municipality: Written approval obtained from the municipality Within 500 foot of a westland	□ □v □No			
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map: Topographic map. Visual inspection (certification) of the proposed	sed site Yes No			
Within the area overlying a subsurface mine. - Written confirantion 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 Geo Topographic map		:		
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 by a check mark in the box, that the documents are attached.	ee attached to the closure plan. Please indicate	е,		
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 F of 19.15.				
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC				
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appropriate requirements of 19 15 17.11 NMAC				
X 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 19.15.1				
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				

Form C-144 Oil Conservation Division Page 4 of 5

19 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 belief
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: 4/22/2012 Title: OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 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. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: 4/12/2011
Closure Method: Waste Excavation and Removal On-site Closure Method X Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
23 Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number
Disposal Facility Name Disposal Facility Pennit Number
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations?
Yes (If yes, please demonstrate compliane to the items below)
Required for impacted areas which will not be used for future service and operations. Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check 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)
Plot Plan (for on-site closures and temporary pits)
Confirmation Sampling Analytical Results (if applicable)
Waste Material Sampling Analytical Results (if applicable)
Disposal Facility Name and Permit Number
Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)
On-site Closure Location. Latitude Longitude NAD 1927 1983
On the closure bounds.
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is ture, 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): Jamie Godwin Title: Regulatory Technician
Signature: Date: Date:
e-mail address:

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	97.2
GRO/DRO	EPA SW-846 8015M	500	ND
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.
- 2. 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.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Preset Cuttings	Date Reported:	04-13-11
Laboratory Number:	57890	Date Sampled:	04-12-11
Chain of Custody No:	9541	Date Received:	04-12-11
Sample Matrix:	Soil	Date Extracted:	04-12-11
Preservative:	Cool	Date Analyzed:	04-12-11
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)	ND	0.1
Total Petroleum Hydrocarbons	ND	

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:

San Juan 29-7 #77N

Analyst



EPA Method 8015 Modified Nonhalogenated Volatile Organics **Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC		Project#:		N/A
Sample ID:	04-12-11 QA/Q	C	Date Reported:		04-13-11
Laboratory Number:	57885		Date Sampled:		N/A
Sample Matrix:	Methylene Chloric	de	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		04-12-11
Condition:	N/A		Analysis Requeste	ed:	TPH
	I-Cal Date	I-Cal RF	C-Cal RF:	% Difference	'Accept Range
Gasoline Range C5 - C10	04-12-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	04-12-11	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Blank Conc. (mg/L - mg/K		Concentration	Trace of the second	Detection Lin	nit
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Rang	e ;
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%	

Spike Conc. (mg/Kg)		Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	•	ND	250	214	85.6%	75 - 125%
Diesei Range C10 - C28		ND	250	271	109%	75 - 125%

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:

QA/QC for Samples 57885-57888, 57890

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

(ug/Kg)

	C	oncentration	Det. Limit
		Dilution:	10
Condition:	Intact	Analysis Requested:	BTEX
Preservative:	Cool	Date Extracted:	04-12 - 11
Sample Matrix:	Soil	Date Analyzed:	04-12-11
Chain of Custody:	9541	Date Received:	04-12-11
Laboratory Number:	57890	Date Sampled:	04-12-11
Sample ID:	Preset Cuttings	Date Reported:	04-13-11
Client:	ConocoPhillips	Project #:	96052-1706

(ug/Kg)

_		
Benzene	(ND)	0.9
Toluene	ND	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	ND	1.2
o-Xylene	ND	0.9

Total BTEX

Parameter

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	109 %
	Bromochlorobenzene	95.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

Review

USEPA, December 1996.

Comments:

San Juan 29-7 #77N

Analyst

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A		Project#:		N/A	
Sample ID:	0412BBLK QA/QC		Date Reported:)4-13-11	
Laboratory Number:	57888		Date Sampled:	-	√A	
Sample Matrix:	Soil	_	Date Received:		N/A	
Preservative:	N/A		Date Analyzed:	-)4-12-11	
Condition:	N/A		Analysis:	E	BTEX	
The state of the s	Alt harmonia de la comita del comita de la comita del l		Dilution:	1		
Calibration and Detection Limits (ug/L).		C-Cal RF Accept Rang	" " " " " " " " " " " " " " " " " " "	Blank Conc	Detect; Limit	
Benzene	4.3137E+006	4.3223E+006	0.2%	ND	0.1	
Toluene	1.3841E+006	1.3869E+006	0.2%	ND	0.1	
Ethylbenzene	1.0113E+006	1.0133E+006	0.2%	ND	0.1	
p,m-Xylene	2.2091E+006	2.2135E+006	0.2%	ND	0.1	
o-Xylene	8.1963E+005	8.2127E+005	0.2%	ND	0.1	
	Sample			Accept Range	Detect. Limit	
Benzene	ND	ND	0.0%	0 - 30%	0.9	
Toluene	ND	ND	0.0%	0 - 30%	1.0	
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0	
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2	
o-Xylene	ND	ND	0.0%	0 - 30%	0.9	

Spike Conc. (ug/Kg)	Sample Amo	unt Spiked S	piked Sample %	Recovery	Accept Range
Benzene	· ND	500	554	111%	39 - 150
Toluene	DИ	500	≁ 597	119%	46 - 148
Ethylbenzene	ND	500	582	116%	32 - 160
p,m-Xylene	ND	1000	1,150	115%	46 - 148
o-Xylene	ND	500	566	113%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 57885-57888, 57890

Analyst

Keviev



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Preset Cuttings	Date Reported:	04/13/11
Laboratory Number:	57890	Date Sampled:	04/12/11
Chain of Custody No:	9541	Date Received:	04/12/11
Sample Matrix:	Soil	Date Extracted:	04/12/11
Preservative:	Cool	Date Analyzed:	04/12/11
Condition:	Intact	Analysis Needed:	TPH-418.1

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

Total Petroleum Hydrocarbons

97.2

10.0

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: San Juan 29-7 #77N

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS QUALITY ASSURANCE REPORT

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported:

04/13/11 N/A

Laboratory Number:

Freon-113

Date Sampled: Date Analyzed:

04/12/11

Sample Matrix: Preservative:

N/A

Date Extracted:

04/12/11

Condition:

N/A

Analysis Needed:

TPH

Calibration:

I-Cal Date

C-Cal Date

04-12 TPH.QA/QC 57890

I-Cal RF: C-Cal RF: % Difference Accept. Range

03/01/11

04/12/11

1,660

1,520

8.4%

+/- 10%

Blank Conc. (mg/Kg)

Concentration

Detection Limit

TPH

ND

10.0

Duplicate Conc. (mg/Kg)

Sample

Duplicate

% Difference

Accept Range

TPH

TPH

97.2

95.9

1.3%

+/- 30%

Spike Conc. (mg/Kg)

Sample 97.2

Spike Added Spike Result % Recovery 2,000

2,000

95.4%

Accept Range : 80 - 120%

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 57890

Ánalyst



Chloride

Client:

ConocoPhillips

Project #:

96052-1706

Sample ID:

Preset Cuttings

Date Reported:

04/13/11

Lab ID#:

57890

Date Sampled:

04/12/11

Sample Matrix:

Soil

Date Received:

04/12/11

Preservative:

Cool

Date Analyzed:

04/13/11

Condition:

Intact

Chain of Custody:

9541

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:

San Juan 29-7 #77N

Analyst

Review

Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 lab@envirotech-inc.com envirotech-inc.com

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