District I

1625 N French Dr., Hobbs, NM 88240

1301 W Grand Ave , Artesia, NM 88210

District III

State of New Mexico Energy Minerals and Natural Resources

> Department Oil Conservation Division 1220 South St. Francis Dr.

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade

Form C-144

tanks, submit to the appropriate NMOCD District Office

| 0/6/20 |
|--------|
| W |

| District IV 1220 S St Francis Dr , Santa Fe, NM 87505 | Santa Fe, NN | 1 8/303 | Environmental Bureau office and provide a copy to the appropriate NMOCD District Office |
|--|---|------------------------------------|---|
| Pit, | Closed-Loop System | | |
| Proposed | Alternative Method | Permit or Clos | sure Plan Application |
| Type of action: | Permit of a pit, closed-loop sy | stem, below-grade ta | ank, or proposed alternative method |
| X | Closure of a pit, closed-loop s | ystem, below-grade | tank, or proposed alternative method |
| | Modification to an existing pe | ermit | |
| | Closure plan only submitted for pelow-grade tank, or proposed | | tted or non-permitted pit, closed-loop system, |
| Instructions: Please submit one applica | tion (Form C-144) per indiv | idual pit, closed-loo _l | p system, below-grade tank or alternative request |
| | | | sult in pollution of surface water, ground water or the |
| environment. Nor does approval reneve the | operator of its responsibility to comply | with any other applicable g | overnmental authority's rules, regulations or ordinances |
| Operator. Burlington Resources Oil & G | as Company, LP | | OGRID#. <u>14538</u> |
| Address PO Box 4289, Farmington, N. | M 87499 | | |
| Facility or well name NYE SRC 14N | | | |
| API Number 30-045 | -35154 | OCD Permit Numbe | er |
| U/L or Qtr/Qtr: B(NW/NE) Section | 13 Township: 30N | Range. 1 | 11W County. SAN JUAN |
| Center of Proposed Design Latitude | 36.81596 °N | Longitude [.] | 107.93888 °W NAD: 1927 X 1983 |
| Surface Owner. X Federal | State Private | Tribal Trust or Indiai | n Allotment |
| | on P&A (Pre-set) pe Thickness mi Other | Volume or Drilling (Applies to | RCVD FEB 23 '12 OIL CONS. DIV. DIST. 3 HDPE PVC Other bbl Dimensions L x W x D activities which require prior approval of a permit or |
| Drying Pad Above Ground Ste | eel Tanks Haul-off Bins | , | |
| Liner Seams Welded Factory | Thicknessmil | LLDPE H | HDPE PVD Other |
| 4 | 16.15.11.22.4.0 | | |
| Below-grade tank: Subsection I of 19 | | | |
| Volumebbl | Type of fluid | | |
| Tank Construction material | n Visible adamatic 1. | nar 6 mah lift and acces | ometre overflow shut off |
| Secondary containment with leak detection Visible sidewalls and liner | | ner, o-inch iitt and auto Other | omatic overflow shut-off |
| | mil HDPE PV | | |
| Enter Type Thickness 1 | LIDIE LIFY | | |
| Alternative Method: | | | |
| Submittal of an exception request is required | Exceptions must be submitted t | o the Santa Fe Environ | nmental Bureau office for consideration of approval |

Form C-144

Oil Conservation Division

Page 1 of 5

| 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, instit Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate Please specify 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 | ution or church | () |
|---|--|-------------|
| 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 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) - 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. | ☐Yes ☐NA ☐Yes | □No |
| (Applied to permanent pits) - 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. | NA 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 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 | ☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes☐ Yes | □No □No □No |
| Society, Topographic map Within a 100-year floodplain - FEMA map | Yes | No |

| Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist Subsection B of 19 15 17.9 NMAC | | | | | |
|--|--|--|--|--|--|
| Instructions Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. | | | | | |
| Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC Hydrogeologic Data (Temporary and Emergency Pitc) - based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9 | | | | | |
| Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19 15.17 9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19 15 17 10 NMAC | | | | | |
| | | | | | |
| Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC | | | | | |
| Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC | | | | | |
| Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC | | | | | |
| Previously Approved Design (attach copy of design) APIor Permit | | | | | |
| Closed loop Systems Power Application Attach was Charlette Charlet | | | | | |
| Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19 15 17 9 NMAC Instructions Each of the following items must be attached to the application Please indicate, by a check mark in the box, that the documents are attached Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19 15 17 9 | | | | | |
| Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19 15 17 10 NMAC | | | | | |
| Design Plan - based upon the appropriate requirements of 19 15 17 11 NMAC | | | | | |
| Operating and Maintenance Plan - based upon the appropriate requirements of 19 15 17 12 NMAC | | | | | |
| Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 15 17 9 | | | | | |
| NMAC and 19 15 17 13 NMAC | | | | | |
| Previously Approved Design (attach copy of design) API | | | | | |
| Previously Approved Operating and Maintenance Plan API | | | | | |
| 13 | | | | | |
| Permanent Pits Permit Application Checklist: Subsection B of 19 15 17 9 NMAC | | | | | |
| Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. | | | | | |
| Hydrogeologic Report - based upon the requirements of Paragraph (I) of Subsection B of 19 15 17 9 NMAC | | | | | |
| String 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 | | | | | |
| 14 | | | | | |
| 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 | | | | | |
| 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 | | | | | |
| 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 | | | | | |

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| 16 | | | | | |
|---|---|----------------------------|--|--|--|
| <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel 7</u> Instructions Please identify the facility or facilities for the disposal of liquids, drilling flu | | | | | |
| facilities are required Disposal Facility Name Facilities June 1997 July | one col Faculty Downst # NIM 01 0011 / NIM 01 00 | 100 | | | |
| | sposal Facility Permit # NM-01-0011 / NM-01-00 sposal Facility Permit # NM-01-005 | 108_ | | | |
| Will any of the proposed closed-loop system operations and associated activities Yes (If yes, please provide the information No | —————————————————————————————————————— | ervice 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 Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection | n I of 19 15 17 13 NMAC | 1AC | | | |
| 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 Reconcertain siting criteria may require administrative approval from the appropriate district office or may office for consideration of approval Justifications and/or demonstrations of equivalency are required. | y be considered an exception which must be submitted to the Sar | | | | |
| Ground water is less than 50 feet below the bottom of the buried waste | | Yes No | | | |
| - NM Office of the State Engineer - IWATERS database search, USGS Data obtain | ed from nearby wells | ∐N/A | | | |
| Ground water is between 50 and 100 feet below the bottom of the buried waste | d from nearly wells | Yes No | | | |
| - NM Office of the State Engineer - IWATERS database search, USGS, Data obtained | a from nearby wells | ∐N/A | | | |
| 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 | rd from nearby wells | ∐Yes ∐No ∏N/A | | | |
| | | | | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant (measured from the ordinary high-water mark) | it watercourse or lakebed, sinkhole, or playa take | YesNo | | | |
| - Topographic map. Visual inspection (certification) of the proposed site | gtones at the time of mittal analysis a | □Yes □No | | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in exi- Visual inspection (certification) of the proposed site. Aerial photo, satellite image | stence at the time of initial application | ∐Yes ∐No | | | |
| | | Yes No | | | |
| Within 500 horizontal 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 fee 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, 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 obtain Within 500 feet of a wetland | ed from the municipality | Yes No | | | |
| - US Fish and Wildlife Wetland Identification map, Topographic map, Visual inspec | | | | | |
| Within the area overlying a subsurface mine Written confirmation or verification or man from the NM EMNRD-Mining and Min | ieral Division | YesNo | | | |
| Within an unstable area | Yes No | | | | |
| - Engineering measures incorporated into the design, NM Bureau of Geology & Mine | | | | | |
| Within a 100-year floodplain - FEMA map | | Yes No | | | |
| On Site Classus Plan Charletint (10.15.17.12.NMAC) Instructions. Each of | Calo Callanian itana anna la anna anna la anna anna la anna | ome whom Direct in direct | | | |
| by a check mark in the box, that the documents are attached. | t the following items must bee attached to the closs | ure pian. Pieuse inaicaie, | | | |
| 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 17 13 NMAC | | | | | |
| 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 build of a drying pad) - based upon the appropriate requirements of 19.15 17 11 NMAC | | | | | |
| | | | | | |
| X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC | | | | | |
| | | s cannot be achieved) | | | |
| Soil Cover Design - based upon the appropriate requirements of Subsect | • | | | | |
| Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC | | | | | |
| - Written confiramtion or verification or map from the NM EMNRD-Mining and Mir Within an unstable area | | | | | |
| Within an unstable area | | Yes No | | | |
| | eral Resources, USGS, NM Geological Society, | | | | |
| | | | | | |
| | | YesNo | | | |
| - FEMA map | | | | | |
| 18 | | | | | |
| On-Site Closure Plan Checklist: (19 15 17 13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached. | f the following items must bee attached to the clos | ure plan. Please indicate, | | | |
| | • | | | | |
| Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19 15 17 13 NMAC | | | | | |
| Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC | | | | | |
| | | | | | |
| | | | | | |
| Yrotocols 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 requirement | s of Subsection F of 19 15 17 13 NMAC | | | | |
| X Disposal Facility Name and Permit Number (for liquids, drilling fluids a | nd drill cuttings or in case on-site closure standards | s cannot be achieved) | | | |
| Soil Cover Design - based upon the appropriate requirements of Subsect | ion 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 | | | | | |

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| 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: 2/24/2012 Title: OCD Permit Number: |
| Closure Report (required within 60 days of closure completion): Subsection K of 1915 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: 2/2/2012 |
| 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 |
| 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 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) No 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 |
| 25 Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is tiue, 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 Goodwin Title Regulatory Technician Date Date |
| e-mail address <u>jamie i goodwin@conocophillips.com</u> Telephone 505-326-9784 |

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
- 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 | 02 |
| 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 | 19 3 |
| GRO/DRO | EPA SW-846 8015M | 500 | ND |
| Chlorides | EPA 300 1 | 500 | 10 |

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)
- 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 Total Petroleum Hydrocarbons

| O variant Distriction | Drainat # | 06052 4706 |
|----------------------------------|--------------------------------|---|
| ConocoPhillips | Project #: | 96052-1706 |
| <pre>FAir/-Preset-Cuttings</pre> | Date Reported: | 02-03-12 |
| 61041 | Date Sampled: | 02-02-12 |
| 09550 | Date Received: | 02-02-12 |
| Soil | Date Extracted: | 02-02-12 |
| Cool | Date Analyzed: | 02-03-12 |
| Intact | Analysis Requested: | 8015 TPH |
| | 61041 09550 Soil Cool | Cool Date Reported: Date Sampled: Date Sampled: Date Received: Date Received: Date Extracted: Date Analyzed: |

| 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:

NYE SRC #14N

Analyst

Royles

envirotech-inc.com;



y EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

| Client: | QA/QC | Project #: | N/A |
|--------------------|--------------------|---------------------|----------|
| Sample ID: | 02-03-12 QA/QC | Date Reported: | 02-03-12 |
| Laboratory Number: | 61041 | Date Sampled: | N/A |
| Sample Matrix: | Methylene Chloride | Date Received: | N/A |
| Preservative: | N/A | Date Analyzed: | 02-03-12 |
| Condition: | N/A | Analysis Requested: | TPH |

| | √ VIECal Dater | Li-Cal RF | C'Call RF | "j" % Difference | Accept Range |
|-------------------------|-------------------|-----------|-----------|---------------------|--------------|
| Gasoline Range C5 - C10 | 40942 | 9.996E+02 | 1.000E+03 | 0.04% | 0 - 15% |
| Diesel Range C10 - C28 | 40942 | 9.996E+02 | 1.000E+03 | 0.04% | 0 - 15% |

| Blank Conc. (mg/L=mg/Kg) | Concentration | Detection Limit |
|--------------------------|---------------|-----------------|
| Gasoline Range C5 - C10 | 2.8 | 0.2 |
| Diesel Range C10 - C28 | 4.4 | 0.1 |

| Duplicate Conc. (mg/Kg) | : Sample : | Duplicate; | % Difference | Range |
|-------------------------|------------|------------|--------------|---------|
| Gasoline Range C5 - C10 | ND | ND | 0.00% | 0 - 30% |
| Diesel Range C10 - C28 | ND | ND | 0.00% | 0 - 30% |

| Spike Conc. (mg/Kg) | Sample: | Spike Added | Spike Result | %,Recovery | 19/ Accept: Range: |
|-------------------------|---------|-------------|--------------|------------|--------------------|
| Gasoline Range C5 - C10 | ND | 250 | 258 | 103% | 75 - 125% |
| Diesel Range C10 - C28 | ND | 250 | 314 | 125% | 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 61009-61018, 61035-61038 and 60141-60143

Analyst

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| Client: | ConocoPhillips | Project #: | 96052-1706 |
|--------------------|----------------------|---------------------|------------|
| Sample ID | Air/-Preset-Cuttings | Date Reported: | 02-03-12 |
| Laboratory Number: | 61041 | Date Sampled: | 02-02-12 |
| Chain of Custody: | 09550 | Date Received: | 02-02-12 |
| Sample Matrix | Soil | Date Analyzed: | 02-03-12 |
| Preservative: | Cool | Date Extracted: | 02-02-12 |
| Condition: | Intact | Analysis Requested: | BTEX |
| | | Dilution: | 10 |

| | Dilution. | 10 | |
|-----------|------------------------------|---------|--|
| | | Det. | |
| | Concentration | Limit | |
| Parameter | (ug/Kg) | (ug/Kg) | |
| | | | |
| Danasa | $\widehat{ND}_{\mathcal{I}}$ | 40.0 | |
| Benzene | עטא | 10.0 | |
| Toluene | ND | 10.0 | |

| Ethylbenzene | ND | 10.0 |
|--------------|----|------|
| p,m-Xylene | ND | 10.0 |
| o-Xylene | ND | 10.0 |
| | _ | |

| Total BTEX | ÌΝ̈́E |
|------------|-------|
| | \ |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 90.3 % |
| | 1,4-difluorobenzene | 97.1 % |
| | Bromochlorobenzene | 94.6 % |

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,

USEPA, December 1996.

Comments:

NYE SRC #14N

Analyst

Review





EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| Client | N/A | រ | Project#: | | N/A | |
|---|---|--|---------------------------|-------------------|------------|--|
| Sample ID: | 0203BBLK QA/Q0 | C 1 | Date Reported | | 02-03-12 | |
| Laboratory Number: | 61041 | ł | Date Sampled: | | N/A | |
| Sample Matrix: | Soil | 1 | Date Received: | | N/A | |
| Preservative: | N/A | 1 | Date Analyzed | | 02-03-12 | |
| Condition: | N/A | • | Analysis: | | BTEX | |
| | | | Dilution- | | 10 | |
| Calibration and | I-Cal RE | C-Cal RF | %Diff./4 | Blank | Detect | |
| Detection Limits (ug/L) | FCal RF | C-Cal RF | <u>e0 ₹15%</u> , ** | Conc | Eimit | |
| Detection Limits (ug/L) Benzene | 1 9004E+007 | C-Cal RF Accept Rang 1 9042E+007 | e 0 ≥ 15%; | Conc. | Limit 1.0 | |
| Detection Limits (ug/L) | 1 9004E+007 1 9179E+007 1 6660E+007 | C-Cal RF | <u>e0 ₹15%</u> , ** | Conc | Eimit | |
| Detection Limits (ug/L) Benzene Toluene | 1 9179E+007 | G-Cal RF | e 0 ≥ 15% 0.2% 0.2% | Conc. ND ND | 1.0 1.0 | |

| Duplicate Conc. (ug/Kg) | Sample Du | plicate | %Diff. | Accept Range | Detect: Limit |
|-------------------------|-----------|---------|--------|--------------|---------------|
| Benzene | ND | ND | 0.0% | 0 - 30% | 10.0 |
| Toluene | ND | ND | 0.0% | 0 - 30% | 10.0 |
| Ethylbenzene | ND | ND | 0.0% | 0 - 30% | 10.0 |
| p,m-Xylene | ND | ND | 0.0% | 0 - 30% | 10.0 |
| o-Xylene | ND | ИD | 0.0% | 0 - 30% | 10.0 |

| Spike Conc: (ug/kg) Accept Ranger Amount Spiked Spiked Samples & Recovery Accept Ranger | | | | | | |
|---|----|------|-------|------|----------|--|
| Benzene | ND | 500 | 523 | 105% | 39 - 150 | |
| Toluene | ND | 500 | 523 | 105% | 46 - 148 | |
| Ethylbenzene | ND | 500 | 522 | 104% | 32 - 160 | |
| p,m-Xylene | ND | 1000 | 1,030 | 103% | 46 - 148 | |
| o-Xylene | ₩D | 500 | 524 | 105% | 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 61019-61024, 61035-61038 and 61041,61043

Analyst

Review

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| Client: | ConocoPhillips | Project #: | 96052-1706 |
|----------------------|--|----------------------------|------------|
| Sample ID: | <air -preset="" cuttings?<="" td=""><td>Date Reported:</td><td>02-03-12</td></air> | Date Reported: | 02-03-12 |
| Laboratory Number: | 61041 | Date Sampled: | 02-02-12 |
| Chain of Custody No. | 09550 | Date Received: | 02-02-12 |
| Sample Matrix: | Soil | Date Extracted: | 02-03-12 |
| Preservative: | Cool | Date Analyzed ¹ | 02-03-12 |
| Condition: | Intact | Analysis Needed: | TPH-418.1 |

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

Total Petroleum Hydrocarbons



°6.4

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:

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS QUALITY ASSURANCE REPORT

Client:

QA/QC

Project #:

N/A

Sample ID:

QA/QC

Date Reported:

02-03-12

Laboratory Number:

02-03-TPH.QA/QC 61041

Date Sampled:

N/A

Sample Matrix:

Freon-113

Date Analyzed:

02-03-12

Preservative:

N/A

Date Extracted:

02-03-12

Condition:

N/A

11-16-11

Analysis Needed:

TPH

Calibration | Calibate

C-Cal Date Accept Range 02-03-12

1,610

1,720

6.8%

Blank Conc. (mg/Kg)

Detection Limit

+/- 10%

TPH

Concentration : ND

6.4

Duplicate Conc. (mg/Kg)

Sample 🖫

Duplicate % Difference

Accept: Range

TPH

TPH

19.3

19.3

0.0%

+/- 30%

19.3

2,000

1,670

Spike Added Spike Result % Recovery. Accept Range 82.7%

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 61041





Chloride

ConocoPhillips Project #: Client: 96052-1706 cAir-/-Preset-Cuttings----Date Reported: 02-03-12 Sample ID: Lab ID#: 61041 Date Sampled: 02-02-12 Soil Date Received: Sample Matrix: 02-02-12 Preservative: Date Analyzed: 02-03-12 Cool Chain of Custody: Condition: Intact 09550

Parameter

Concentration (mg/Kg)

Total Chloride

10

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:

NYE SRC #14N

Analyst

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