| District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505State of New Mexico Santa Fe, NM 87505For mc C-14 Revised June 6, 201District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. |
|---|
| Pit, Below-Grade Tank, or N2964 Proposed Alternative Method Permit or Closure Plan Application Type of action: Below grade tank registration Permit of a pit or proposed alternative method JUN 16 2015 45-20748 Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration JUN 16 2015 Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances |
| I. Operator: BP America Production CompanyOGRID #:778 Address:200 Energy Court, Farmington, NM 87401 Facility or well name:Case B 12 API Number:3004520748OCD Permit Number:6119 U/L or Qtt/QtrM Section5Township31N Range11W County:San Juan Center of Proposed Design: Latitude36.92250 Longitude108.01925 NAD: [_1927 ⊠ 1983 Surface Owner: ⊠ Federal [] State [] Private [] Tribal Trust or Indian Allotment |
| 2. Pit: Subsection F, G or J of 19.15.17.11 NMAC Temporary: Drilling Workover Permanent Emergency Cavitation P&A Multi-Well Fluid Management Low Chloride Drilling Fluid yes no Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced Liner Seams: Welded Factory Other Volume: bbl Dimensions: L x Wx D |
| 3. Subsection I of 19.15.17.11 NMAC Tank A Volume:95.0bbl Type of fluid:Produced water Tank Construction material:Steel Tank Construction material:Steel Secondary containment with leak detection □ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner □ Visible sidewalls only ☑ Other _Double walled/double bottomed; side walls not visible Liner type: Thicknessmil □ HDPE □ PVC □ Other |

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 pits, temporary pits, and below-grade tanks)

Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)

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

Signed in compliance with 19.15.16.8 NMAC

Variances and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.
 Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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. Siting criteria does not apply to drying pads or above-grade tanks.

| General siting | |
|---|--------------------|
| <u>Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.</u> - □ NM Office of the State Engineer - iWATERS database search; □ USGS; □ Data obtained from nearby wells | □ Yes □ No □ NA |
| Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality | 🗌 Yes 🗌 No |
| Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | 🗌 Yes 🗌 No |
| Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | 🗌 Yes 🗌 No |
| Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map | 🗌 Yes 🗌 No |
| Below Grade Tanks | |
| Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |
| Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |
| Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter) | |
| Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |

| Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. | Yes No | | | |
|---|------------|--|--|--|
| - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | | | | |
| Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes No | | | |
| Temporary Pit Non-low chloride drilling fluid | | | | |
| Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | 🗌 Yes 🗌 No | | | |
| Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Permanent Pit or Multi-Well Fluid Management Pit | | | | |
| Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). | | | | |
| - Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | 🗌 Yes 🗌 No | | | |
| Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No | | | |
| Within 500 feet of a wetland. | | | | |
| - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | Yes No | | | |
| 10. 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 Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.10 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 | | | | |
| Previously Approved Design (attach copy of design) API Number: or Permit Number: | | | | |
| 11. Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached. Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC A List of wells with approved application for permit to drill associated with the pit. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number: | | | | |
| in reviously approved besign (attach copy of design) Ar i runnoci, or rethint runnocr, | | | | |

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| ^{12.} <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the</i> | documents are |
| <i>attached.</i> Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC | |
| Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC | |
| Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC | |
| Operating and Maintenance Fran - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan | |
| Emergency Response Plan Oil Field Waste Stream Characterization | |
| Monitoring and Inspection Plan Erosion Control Plan | |
| Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC | |
| ^{13.} <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i> | |
| Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F | luid Management Pit |
| 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 Burial Alternative Closure Method | |
| Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC | |
| 15. Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC | |
| Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance. | |
| Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | □ Yes □ No □ NA |
| Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells | ☐ Yes ☐ No ☐ NA |
| Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |
| Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image | Yes No |
| Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |
| Written confirmation or verification from the municipality; Written approval obtained from the municipality | 🗌 Yes 🗌 No |
| Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site | 🗌 Yes 🗌 No |
| Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance | |

| x* | |
|---|--------------------------|
| adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality | Yes No |
| Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division | Yes No |
| Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map | 🗌 Yes 🗌 No |
| Within a 100-year floodplain. - FEMA map | Yes No |
| ^{16.} <u>On-Site Closure Plan Checklist</u>: (19.15.17.13 NMAC) <i>Instructions: Each of the following items must be attached to the closure ple by a check mark in the box, that the documents are attached.</i> Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of 19.15.17.13 NMAC | 11 NMAC 15.17.11 NMAC |

Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17. **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: | |
| 18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Onatto Killy Approval Date: \$\frac{3}{2015}\$ Title: Compliance Office OCD Permit Number: | |
| 19. Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure 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 th section of the form until an approved closure plan has been obtained and the closure activities have been completed. Image: Closure Completion Date: 5/11/2010 | |
| 20. Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems If different from approved plan, please explain. | only) |
| 21. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) □ Proof of Deed Notice (required for on-site closure for private land only) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable) □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number □ Soil Backfilling and Cover Installation □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation) 0n-site Closure Location: Latitude 36.9250 Longitude -108.01925 NAD: □1927 □1983 | check |

22. Operator Closure Certification:

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| I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan. | | | | | |
|--|-------------------|--|--|--|--|
| Name (Print): Jeff Peace Title: Field Environmental Coordinator | | | | | |
| Signature: Seff Peace | Date:June 9, 2015 | | | | |
| e-mail address:peace.jeffrey@bp.com Telephone:(505) 326-9479 | | | | | |
| | | | | | |

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Case B 12</u> <u>API No. 3004520748</u> <u>Unit Letter M, Section 5, T31N, R11W</u>

This plan will address the standard protocols and procedures for closure of below-grade tanks (BGTs) on BP America Production Company (BP) well sites. As stipulated in Paragraph A of 19.15.17.13 NMAC, BP shall close a BGT within the time periods provided in 19.15.17.13 NMAC, or by an earlier date that the New Mexico Oil Conservation Division (NMOCD) requires because of imminent danger to fresh water, public health, safety or the environment. If deviations from this plan are necessary, any specific changes will be included on form C-144 and approved by the NMOCD. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years after June 16, 2008, if not retrofit with a BGT that complies with the BP NMOCD approved BGT design attached to the BP Design and Construction Plan. BP shall close an existing BGT that does not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC, if not previously retrofitted to comply with the BP NMOCD approve BGT Design attached to the BP Design and Construction Plan, prior to any sale or change in operator pursuant to 19.15.9.9 NMAC. BP shall close the permitted BGT within 60 days of cessation of the BGTs operation or as required by the transitional provisions of Subsection B. D. or E of 19.15.17.17 NMAC.

General Closure Plan

- BP shall notify the surface owner by certified mail that it plans to close a BGT. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records demonstrates compliance with this requirement. No notice was made due to misunderstanding of the BGT notice requirements at that time.
- BP shall notify the division District III office verbally or by other means at least 72 hours, but not more than one (1) week, prior to any closure operation. The notice shall include the operator's name, and the location to be closed by unit letter, section, township and range. If the BGT closure is associated with a particular well, then the notice shall also include the well's name, number and API number.
 No notice was made due to misunderstanding of the BGT notice requirements at

No notice was made due to misunderstanding of the BGT notice requirement that time.

- 3. BP shall remove liquids and sludge from the BGT prior to implementing a closure method and dispose of the liquids and sludge in a NMOCD's division-approved facility. The facilities to be used are:
 - a. BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids)
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - c. Basin Disposal, Permit NM-01-0005 (Liquids)

- d. Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and Sludge)
- e. BP Operated E.E. Elliott SWD #1, API 30-045-27799 (Liquids)
- f. BP Operated 13 GCU SWD #1, API 30-045-28601 (Liquids)
- g. BP Operated GCU 259 SWD, API 30-045-20006 (Liquids)
- h. BP Operated GCU 306 SWD, API 30-045-24286 (Liquids)
- i. BP Operated GCU 307 SWD, API 30-045-24248 (Liquids)
- j. BP Operated GCU 328 SWD, API 30-045-24735 (Liquids)
- k. BP Operated Pritchard SWD #1, API 30-045-28351 (Liquids) All liquids and sludge in the BGT were removed and sent to one of the

above NMOCD approved facilities for disposal.

4. BP shall remove the BGT and dispose of it in a NMOCD approved facility or recycle, reuse, or reclaim it in a manner that the NMOCD approves. If a liner is present and must be disposed of it will be cleaned by scraping any soils or other attached materials on the liner to a de minimus amount and disposed at a permitted solid waste facility, pursuant to Subparagraph (m) of Paragraph (1) of Subsection C of 19.15.35.8 NMAC. Documentation as to the final disposition of the removed BGT will be provided in the final closure report.

The BGT was transported to a storage area for sale and re-use.

5. BP shall remove any on-site equipment associated with a BGT unless the equipment is required for well production.

All equipment associated with the BGT has been removed.

6. BP shall test the soils beneath the BGT to determine whether a release has occurred. BP shall collect at a minimum: a five (5) point composite sample and individual grab samples from any area that is wet, discolored or showing other evidence of a release and analyze for BTEX, TPH and chlorides. The testing methods for those constituents are as follows;

| Constituents | Testing Method | Release Verification | Sample |
|--------------|-------------------------------------|----------------------|---------|
| | 95 bbl BGT | (mg/Kg) | results |
| Benzene | US EPA Method SW-846 8021B or 8260B | 0.2 | ND |
| Total BTEX | US EPA Method SW-846 8021B or 8260B | 50 | ND |
| TPH | US EPA Method SW-846 418.1 | 100 | 18.9 |
| Chlorides | US EPA Method 300.0 or 4500B | 250 or background | 30 |

Notes: mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

Soil under the BGT was sampled and TPH, BTEX and chloride levels were below the stated limits. Sampling data is attached.

- BP shall notify the division District III office of its results on form C-141.
 C-141 is attached.
- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 Sampling results indicate no release occurred.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

The area under the BGT was backfilled with clean soil and has been reclaimed since the well was plugged and abandoned.

10. BP shall reclaim the BGT location and all areas associated with the BGT including associated access roads to a safe and stable condition that blends with the surrounding undisturbed area. BP shall substantially restore the impacted surface area to the condition that existed prior to oil and gas operations by placement of the soil cover as provided in Subsection H of 19.15.17.13 NMAC, re-contour the location and associated areas to a contour that approximates the original contour and blends with the surrounding topography and re-vegetate according to Subsection I of 19.15.17.13 NMAC.

The area over the BGT has been reclaimed since the well was plugged and abandoned.

11. The soil cover for closures where the BGT has been removed or remediated to the NMOCD's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The soil cover will be constructed to the site's existing grade and all practicable efforts will be made to prevent ponding of water and erosion of the cover material.

The area over the BGT has been reclaimed since the well was plugged and abandoned.

12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The area over the BGT has been reclaimed since the well was plugged and abandoned.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection I of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

BP has seeded the area as part of final reclamation since the well was plugged and abandoned.

14. Pursuant to Paragraph (5) of Subsection I of 19.15.17.13 NMAC, BP shall notify the NMOCD when it has seeded or planted and when it successfully achieves revegetation.

BP will notify NMOCD when re-vegetation is successful.

- 15. Within 60 days of closure completion, BP shall submit a closure report on NMOCD's form C-144, and will include the following;
 - a. proof of closure notification (surface owner and NMOCD)
 - b. sampling analytical reports; information required by 19.15.17 NMAC;
 - c. disposal facility name and permit number
 - d. details on back-filling, capping, covering, and where applicable re-vegetation application rates and seeding techniques and
 - e. site reclamation, photo documentation. Closure report on C-144 form is included.
- 16. BP shall certify that all information in the report and attachments is accurate, truthful, and compliant with all applicable closure requirements and conditions specified in the approved closure plan.

Certification section of C-144 has been completed.

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Oil Conservation Division

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

| 1220 C. Ct. Engenie Dr. Conto Fo. NIM 97505 | outh St. France a Fe, NM 875 | | | | | |
|---|--|--|--|---|------------------------------|-------------------------------------|
| Release Notificat | tion and Co | orrective A | ction | | | |
| | OPERA | ГOR | Initia | al Report | \boxtimes | Final Repor |
| Name of Company: BP | Contact: Je: | f Peace | | | | |
| Address: 200 Energy Court, Farmington, NM 87401 | Telephone | No.: 505-326-94 | 79 | - | | |
| Facility Name: Case B 12 | Facility Typ | e: Natural gas v | well | | | |
| Surface Owner: Federal Mineral Own | an Eadanal | | ADINO | . 30045207 | 110 | |
| | | | API NO | 0. 30043207 | 40 | |
| | ION OF RE | 1 | Foot/Woot Line | Country So | . Incom | |
| 1 0 | orth/South Line | Feet from the 850 | East/West Line West | County: Sa | in Juan | 1 |
| Latitude 36.92250 | Longitud | e 108.01925 | | | | |
| | RE OF REL | | | | | |
| Type of Release: none | | Release: N/A | Volume F | Recovered: N | I/A | |
| Source of Release: below grade tank – 95 bbl | | Hour of Occurrence | ce: Date and | Hour of Disc | covery | : |
| Was Immediate Notice Given? | If YES, To | Whom? | | | | |
| By Whom? | Date and H | Iour | | | | |
| Was a Watercourse Reached? | If YES, V | olume Impacting | he Watercourse. | | | |
| the BGT. Soil analysis resulted in TPH, BTEX and chloride below sta Describe Area Affected and Cleanup Action Taken.* BGT was remov backfilled and compacted and has been reclaimed and seeded since the | ved and the area u | nderneath the BG | T was sampled. Th | ne area under | r the B | GT was |
| I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain releas public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remeat or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations. | se notifications a y the NMOCD m diate contaminati | nd perform correc arked as "Final R on that pose a thr | tive actions for rele eport" does not reli eat to ground water | eases which r eve the opera , surface wat | may en ator of er, hur | ndanger Tliability man health |
| Signature: Seff Pare | | OIL CON | SERVATION | DIVISIO | N | |
| Printed Name: Jeff Peace | Approved by | Environmental S | pecialist: | | | |
| Title: Field Environmental Coordinator | Approval Da | e: | Expiration I | Date: | | |
| E-mail Address: peace.jeffrey@bp.com | Conditions of | Approval: | | Attached | | |
| Date: June 9, 2015 Phone: 505-326-9479 | | | | | | |

* Attach Additional Sheets If Necessary

| CLIENT: | P.O. BOX 87, BLC | GINEERING, INC. DOMFIELD, NM 87413 632-1199 | API #: 3004520748 |
|--|---|---|---|
| FIELD REPORT: | BGT CONFIRMATION TEMP. F (other) | PIT CLOSURE / RELEASE INVESTIGATION | PAGE No: 1 of 1 |
| SITE INFORMATION | SITE NAME: CASE | B #12 | DATE STARTED: 05/04/10 |
| QUAD/UNIT: M SEC: 5 TV | P: 31N RNG: 11W PM: | NM CNTY: SJ ST: NM | DATE FINISHED: |
| QTR-QTR/FOOTAGE: 845'S / 8 | 50'W SW/SW LEASE | TYPE: FEDERAL STATE / FEE / IN | |
| LEASE #: SF078095 | PROD. FORMATION: PC | CONTRACTOR: ELKHOR | 100 |
| REFERENCE POINT | T: WELL HEAD (W.H.) G | PS COORD.: 36.92249) | X 108.01936 GLELEV.: 6,199' |
| 1) 95 BGT (DW/DB) | GPS COORD.: 36 | 6.92250 X 108.01925 | DISTANCE/BEARING FROM W.H.: 27', N82E |
| 2) | GPS COORD .: | | DISTANCE/BEARING FROM W.H.: |
| 3) | GPS COORD.: | | DISTANCE/BEARING FROM W.H.: |
| 4) | GPS COORD.: GPS COORD.: | | DISTANCE/BEARING FROM W.H.: DISTANCE/BEARING FROM W.H.: |
| | | | OVM |
| | | 4/40 4504 | READING |
| 1) SAMPLE ID: 95 BGT 5-pt. (| | | (1) |
| 2) SAMPLE ID: 3) SAMPLE ID: | SAMPLE DATE: SAMPLE DATE: | SAMPLE TIME: LAB ANALY SAMPLE TIME: LAB ANALY | |
| 4) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: LAB ANALY | |
| 5) SAMPLE ID: | SAMPLE DATE: | SAMPLE TIME: LAB ANALY | YSIS: |
| SOIL DESCRIPTION | | | GRAVEL OTHER BEDROCK (sandstone) |
| COHESION (ALL OTHERS): <u>NON COHESIVE</u> SLIGH CONSISTENCY (NON COHESIVE SOILS): PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC DENSITY (COHESIVE CLAYS & SILTS): SO MOISTURE: DRY <u>SLIGHTLY MOIST</u> MOIST | LOWISH ORANGE TLY COHESIVE / COHESIVE / HIGHLY COH LOOSE (FIRM) DENSE (VERY DE C/COHESIVE / MEDIUM PLASTIC / HIGHLY PL FT / FIRM / STIFF / VERY STIFF / H/ WET / SATURATED / SUPER SATURAT STING ON SANDSTONE. SAN SAMPLE FROM SANDSTONE S | ESIVE LIGHT GRAY @ BEDROCK SL INSE ASTIC HC ODOR DETECTED: YES ARD TED SAMPLE TYPE: GRAB COMF DSTONE OBSERVED APPROX. 1 FT. E | G OBSERVED: YES NO EXPLANATION - URFACE. S [NO] EXPLANATION - POSITE] # OF PTS. 5 BELOW GRADE. USED CRANE TO REMOVE |
| EXCAVATION DIMENSIONS (if applicable | e): NA ft. X N | A ft. X NA ft. | cubic yards excavated (if applicable): |
| SITE SKETCH | RM. FENCE | OVM CAAB. READ. =ppm OVM CALIB. GAS =ppm DME:am/pmDATE: | circle: Attached |
| WELL HEAD | PBGTL T.B. ~ 3' B.G. | | BGT SIDEWALLS NOT VISIBLE DW - DOUBLE WALLED DB - DOUBLE BOTTOM |
| MET RU | | | |
| | | X - S | |
| | | GRADE; B = BELOW, T.H. = TEST HOLE; ~ = APPRC SADE: B = BELOW, T.H. = TEST HOLE; ~ = APPRC D = SAMPLE POINT DESIGNATION; R.W. = RETAIN | DX.; |



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

| Client: | Blagg / BP | Project #: | 94034-0011 |
|------------------------|------------------|------------------|------------|
| Sample ID: | 95 BGT 5-pt @ 3' | Date Reported: | 05-11-10 |
| Laboratory Number: | 54030 | Date Sampled: | 05-04-10 |
| Chain of Custody No: | 9283 | Date Received: | 05-05-10 |
| Sample Matrix: | Soil | Date Extracted: | 05-06-10 |
| Preservative: | Cool | Date Analyzed: | 05-06-10 |
| Condition: | Intact | Analysis Needed: | TPH-418.1 |
| | | | Det. |
| | Conce | entration | Limit |
| Parameter | (mg | | (mg/kg) |
| Total Petroleum Hydrod | arbons 18 | .9 | 14.9 |

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: Case B 12

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition: | Blagg / BP 95 BGT 5pt @ 3' 54030 9283 Soil Cool Intact | Project #: Date Reporte Date Sampleo Date Receive Date Analyze Date Extracte Analysis Requ | d: d: d: d: | 94034-0011 05-11-10 05-04-10 05-05-10 05-10-10 05-07-10 BTEX |
|---|--|--|---------------------------------|--|
| Parameter | | Concentration (ug/Kg) | Det. Limit (ug/Kg) | |
| Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene | | ND ND ND ND | 0.9 1.0 1.0 1.2 0.9 | |
| Total BTEX | | ND | | |

ND - Parameter not detected at the stated detection limit.

| Surrogate Recoveries: | Parameter | Percent Recovery |
|-----------------------|---------------------|------------------|
| | Fluorobenzene | 103 % |
| | 1,4-difluorobenzene | 97.7 % |
| | Bromochlorobenzene | 96.3 % |

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: Case B 12

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Chloride

| Client: | Blagg/BP | Project #: | 94034-0011 |
|----------------|------------------|-------------------|------------|
| Sample ID: | 95 BGT 5-pt @ 3' | Date Reported: | 05-11-10 |
| Lab ID#: | 54030 | Date Sampled: | 05-04-10 |
| Sample Matrix: | Soil | Date Received: | 05-05-10 |
| Preservative: | Cool | Date Analyzed: | 05-07-10 |
| Condition: | Intact | Chain of Custody: | 9283 |

Parameter

Concentration (mg/Kg)

Total Chloride

30

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:

Case B 12

Analyst

Mistre Millen Review

envirotech Analytical Laboratory

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

| Client: Sample ID: Laboratory Number: Chain of Custody No: | Blagg/BP 95 BGT 5pt @ 3' 54030 9282 | Project #: Date Reported: Date Sampled: Date Received: | 94034-0011 05-11-10 05-04-10 05-05-10 |
|---|--|---|--|
| Sample Matrix: Preservative: | Soil Cool | Date Extracted: Date Analyzed: | 05-07-10 05-10-10 |
| 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 Hyd | rocarbons | ND | 0.2 |

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: Case B 12

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CHAIN OF CUSTODY RECORD

| Client: | | | Project Name / L | | | | | | | | | | | | | VEIE | | | TEDE | | | | | |
|-------------------------|----------|------|---|---------------|-------------------|------------------|----------|--------|-------|-------------------|--------------------|-------------------|---------------|----------------|------|---------------|-------|-------------|----------|---|----|-------------|-------------|---------------|
| BLAGE /BP | <i>i</i> | | CASE | B | IZ | | | | | | | | | | ANAL | 100 | / PAP | ANE | TERS | | | | | |
| Client Address: | | | Sampler Name: | Alex | | | | | | | Ê | 6 | | | | 1 | | | | 1 | | | 1 | |
| | | | J. B | AGE | r | | | | 1 | c10 | 802 | 3260 | 0 | | | | | | | | | | | |
| Client Phone No .: | | | Client No.: | | | | | | | po | pou | po | etals | lon | | H/P | | E | | | | | 0 | act |
| | | | CASE Sampler Name: <i>J- Bo</i> Client No.: 94034 | - a | 211 | | | | 1 | TPH (Method 8015) | BTEX (Method 8021) | VOC (Method 8260) | RCRA 8 Metals | Cation / Anion | | TCLP with H/P | | TPH (418.1) | CHLORIDE | | | | Sample Cool | Sample Intact |
| Sample No./ | Sample | | 9 | | Sample | No./Volume | Pre | servat | ive . | T (IV | X | CO | BA | ion | _ | P | Т | H (4 | LOF | | | | nple | nple |
| Identification | Date | Time | Lab No. | 1 | Matrix | of Containers | HgCl | 2 HCI | 5 | 1- | BTI | N | RC | Cat | RCI | TCI | PAH | TP | R | | | | Sar | Sar |
| 95 BGT 5-pt @ 3- | 5/4/0 | 1500 | 1 54030 | Solid | Sludge Aqueous | 1-402 | | | | X | ž | | | | | | | × | | | | | Y | Y |
| e | | | | Soil | Sludge | | 1 | | - | | | | | | | | | | | | | | - | - |
| | | | | Solid | Aqueous | | 1 | | _ | _ | | | - | | | | | | | | | | | |
| | | | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | | |
| | | | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | | |
| | | | | Soil | Sludge | | - | | - | - | | | | | | | | | | | | | - | |
| | | | | Solid | Aqueous Sludge | | - | | | - | | | | | | | | | | | | | | |
| | | | | Solid | Aqueous | | | | | | | | | | | | | | | | | | | |
| | | | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | | |
| | | | | Soil Solid | Sludge Aqueous | | | | | | | | | | | | | | | | | | | |
| | | | | Soil Solid | Sludge | | | | - | | | | | | | | | | | | | | | |
| | | | | Soil | Aqueous Sludge | | \vdash | | + | + | | | | | | | | | | | | | | |
| | | | | Solid | Aqueous | | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signa | ature) | | | | Date | Time | F | Receiv | ved t | oy: (| Signa | ature) |) | | | | | | | | De | ate STIO | Tir | ne |
| Relingpished by: (Signa | Shigh | | | | \$/5/0 | 1233 | 5 | Z | le | A | | 1 | | - | | | | | | | 7: | 3/10 | 12. | 33 |
| Relinquished by: (Signa | ature) (| | | | | | | Receiv | | | | | | | | | | | | | | | | |
| Relinquished by: (Signa | ature) | | | | | | F | Receiv | ved b | oy: ({ | Signa | ature) | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1 | S | 001 | / î | 1.100 | - | 4 | ~/ | ~ h | 4 | | | | | | | | | | | |
| | | | | | -> | env | / 1 | | 21 | LC | 30 | | | | | | | | | | | | | |
| | | | | | | An | aly | /tice | alL | ab | ora | itory | / | | | | | | | | | | | |
| | | | 5796 US | 3 Highwa | ay 64 • Farmin | gton, NM 874 | 401 | • 505- | 632-0 | 0615 | • lab | @env | /irotec | n-inc.c | om | | | | | | | | | |

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EPA METHOD 418.1 TOTAL PETROLEUM HYROCARBONS QUALITY ASSURANCE REPORT

| Client: Sample ID; Laboratory Number Sample Matrix: Preservative: Condition: | | QA/QC QA/QC 05-06-TPH.QA/Q Freon-113 N/A N/A | C 54013 | Project #: Date Reported: Date Sampled: Date Analyzed Date Extracted Analysis Neede | | N/A 05-07-10 N/A 05-06-10 05-06-10 TPH |
|---|--------------------------|---|----------------------|--|-----------------------|---|
| Calibration | I-Cal Date 04/22/2010 | C-Cal Date 05-06-10 | I-Cal RF: 1,690 | C-Cal RF: 1,740 | % Difference 3.0% | Accept. Range +/- 10% |
| Blank Conc. (m TPH | g/Kg) | | Concentration ND | | Detection Lim 14.9 | it |
| Duplicate Conc TPH | :. (mg/Kg) | | Sample 27.7 | Duplicate 23.0 | % Difference 17.0% | Accept. Range +/- 30% |
| Spike Conc. (m TPH | g/Kg) | Sample 27.7 | Spike Added 2,000 | Spike Result 1,760 | % Recovery 86.8% | 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 54013 - 54016, 54030 - 54032 and 54046.

Review Matter



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

| Client: | QA/QC | | Decident | | N1/0 |
|------------------------------|-----------------|---------------|----------------|-----------------|---------------|
| | | 20 | Project #: | | N/A |
| Sample ID: | 05-10-10 QA/0 | | Date Reported: | | 05-11-10 |
| Laboratory Number: | 54030 | | Date Sampled: | | N/A |
| Sample Matrix: | Methylene Chlor | ide | Date Received: | | N/A |
| Preservative: | N/A | | Date Analyzed: | | 05-10-10 |
| Condition: | N/A | | Analysis Reque | ested: | TPH |
| | I-Cal Date | I-Cal RF: | C-Cal RF: | % Difference | Accept. Range |
| Gasoline Range C5 - C10 | 05-07-07 | 1.0426E+003 | 1.0430E+003 | 0.04% | 0 - 15% |
| Diesel Range C10 - C28 | 05-07-07 | 1.1428E+003 | 1.1433E+003 | 0.04% | 0 - 15% |
| Blank Conc. (mg/L - mg/Kg) | | Concentration | | Detection Limit | |
| Gasoline Range C5 - C10 | | ND | | 0.2 | |
| Diesel Range C10 - C28 | | ND | | 0.1 | |
| Total Petroleum Hydrocarbons | | ND | | 0.2 | |
| Duplicate Conc. (mg/Kg) | Sample | Duplicate | % Difference | Accept. Range | |
| 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 | 232 | 93.0% | 75 - 125% |
| Diesel Range C10 - C28 | ND | 250 | 251 | 100% | 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 53993, 54030, 54033, 54035 and 54075 - 54076.

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

| Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition: | N/A 05-10-BTEX QA/Q0 54030 Soil N/A N/A | с | Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis: | | N/A 05-11-10 N/A 05-10-10 BTEX |
|--|--|-------------|--|--------------|--|
| Calibration and | I-Cal RF: | C-Cal RF: | %Diff. | Blank | Detect. |
| Detection Limits (ug/L) | | Accept. Rar | nge 0 - 15% | Conc | Limit |
| Benzene | 1.6710E+006 | 1.6744E+006 | 0.2% | ND | 0.1 |
| Toluene | 1,1244E+006 | 1.1266E+006 | 0.2% | ND | 0.1 |
| Ethylbenzene | 8.9504E+005 | 8,9684E+005 | 0.2% | ND | 0.1 |
| p,m-Xylene | 1.9129E+006 | 1.9168E+006 | 0.2% | ND | 0.1 |
| o-Xylene | 8.0708E+005 | 8.0870E+005 | 0.2% | ND | 0.1 |
| Duplicate Conc. (ug/Kg) | Sample | Duplicate | %Diff. | 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 - 30% | 1.0 |
| p,m-Xylene | ND | ND | | 0 - 30% | 1.2 |
| o-Xylene | ND | ND | | 0 - 30% | 0.9 |

| Spike Conc. (ug/Kg) | Sample | Amount Spiked | Spiked Sample | % Recovery | Accept Range |
|---------------------|--------|---------------|---------------|------------|--------------|
| Benzene | ND | 50.0 | 50.2 | 100% | 39 - 150 |
| Toluene | ND | 50.0 | 45.5 | 91.0% | 46 - 148 |
| Ethylbenzene | ND | 50.0 | 47.3 | 94.7% | 32 - 160 |
| p,m-Xylene | ND | 100 | 110 | 110% | 46 - 148 |
| o-Xylene | ND | 50.0 | 48.7 | 97.3% | 46 - 148 |

ND - Parameter not detected at the stated detection limit.

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 Delectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 53993, 54030, 54033, 54035, 54075 and 54076.

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CASE B # 12



