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 Energy Minerals and Natural Resources Department 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 appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a co to the appropriate NMOCD District Office.	2013 1 the
Pit, Below-Grade Tank, or         >2646       Proposed Alternative Method Permit or Closure Plan Application         Type of action:       Below grade tank registration         Permit of a pit or proposed alternative method       KECEIVED         45 - 07330       Closure of a pit, below-grade tank, or proposed alternative method         Modification to an existing permit/or registration       FEB 06 2015         Modification to an existing permit/or registration       NM/OCD         Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request CT 111         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 ordinant	) ) nces.
I.       Operator: BP America Production CompanyOGRID #:778         Address:200 Energy Court, Farmington, NM 87401         Facility or well name:Gallegos Canyon Unit 36         API Number:3004507330       OCD Permit Number:         U/L or Qtr/QtrH Section19 Township28N Range12W County:San Juan         Center of Proposed Design: Latitude36.65001 Longitude108.14754 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 W x D	
3.       Mathematical Subsection I of 19.15.17.11 NMAC       Tank A       Mathematical Subsection I of 19.15.17.11 Requires under 19.15.29         Volume:95.0bbl Type of fluid:Produced water	ىخ ا
Alternative Method:	

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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<ul> <li>5.</li> <li>Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)</li> <li>Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)</li> <li>Four foot height, four strands of barbed wire evenly spaced between one and four feet</li> <li>Alternate. Please specify</li></ul>	hospital,
<ul> <li>6.</li> <li><u>Netting</u>: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)</li> <li>Screen Netting Other</li> <li>Monthly inspections (If netting or screening is not physically feasible)</li> </ul>	
<ul> <li>7.</li> <li>Signs: Subsection C of 19.15.17.11 NMAC</li> <li>12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers</li> <li>Signed in compliance with 19.15.16.8 NMAC</li> </ul>	
<ul> <li><u>Variances and Exceptions:</u> Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.</li> <li><i>Please check a box if one or more of the following is requested, if not leave blank:</i> <ul> <li>Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.</li> <li>Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul> </li> </ul>	
<sup>9.</sup> 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 acce material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. -	☐ 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
<ul> <li>Within the area overlying a subsurface mine. (Does not apply to below grade tanks)</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	🗌 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	🗆 Yes 🗌 No
Society; Topographic map Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	🗌 Yes 🗌 No
Below Grade Tanks	
<ul> <li>Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗋 Yes 🗌 No
<ul> <li>Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
<ul> <li>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.)</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	Yes No

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Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes No
<ul> <li>application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	
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
<ul> <li>Within 100 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Temporary Pit Non-low chloride drilling fluid	
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	□ Yes □ No
<ul> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	
<ul> <li>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;</li> <li>NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site</li> </ul>	Yes No
<ul> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
<ul> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	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
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	🗌 Yes 🗌 No
<sup>10.</sup> <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 N Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do	
<ul> <li>attached.</li> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul>	NMAC
<ul> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>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</li> </ul>	15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
<ul> <li><sup>11.</sup> <u>Multi-Well Fluid Management Pit Checklist</u>: Subsection B of 19.15.17.9 NMAC</li> <li><i>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.</i> <ul> <li>Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>A List of wells with approved application for permit to drill associated with the pit.</li> <li>Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19</li> </ul> </li> </ul>	
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:	

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Alternative     Proposed Closure Method:     Waste Excavation and Removal     Closure Method:     Waste Excavation and Removal (Closed-loop systems only)     Co-shite Closure Method     In-place Burial     On-site Closure Method     Maste Excavation and Removal Closer Plan Checklist;     (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the     Costure 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 (fi applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC     Confirmation Sampling Plan (fi applicable) - 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     Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC     Sting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC     Sting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC     Sting Criteria requires and ensortation of a compliance in the closure plan. Recommendations of acceptable source material are     provided below. Requests regarding changes to certain sting criteria require; plantsfications and/or demonstrations of equivalency. Please refer to     915.17.10 NMAC for guidance.     NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells     MA No     NA No Moffice of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells     NA No Nice of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells     NA No     NA No Moffice of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells     NA No     NA No Moffice of the State Engineer - iWATERS database	Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.         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 19.15.17.9 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         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.11 NMAC         Image: Nuisance or Hazardous Odors, including H <sub>2</sub> S, 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 19.15.17.9 NMAC and 19.15.17.13 NMAC         Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Waste Removal (Closed-loop systems only)         On-shite Closure Method (Obe free morary pits and closed-loop systems)         Implace Burial       On-site Trench Burial         Waste Excavation and Removal Closure Method       One-site Trench Burial         Waste Excavation and Removal Closure Man Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Place indicate, by a check mark in the box, that me a attached.         Confirmation Sampling Plan (1 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)         Silte Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC         Bisting 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 material are provided below. Requests regarding changes to certain siting criteria require mast SIGS (Data obtained from nearby wells         Ground water is less than 25 fee below the bottom of the buried waste.       NA         NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells       NA         Ground water is nore than 100 feet below the bottom of the buried waste.       NA         NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells       NA	Alternative	and thrandgement i th
Consider Closure Method (Only for temporary pits and closed-loop systems)     Constructions: Each of the following items must be attached to the closure plan. Please Burial     Alternative Closure Method     Maste 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.     Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC     Disposal Pacifity Name and Permi Number (for liquids, drilling fulids 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     Soil Backfill and Cover Design Specifications - 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     Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC     Instructions: Each sling criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain sling criteria require justfications and/or demonstrations of equivalency. Please refer to 19.15.17.13 NMAC of multimeter.     NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells     On a test 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     On A is State Engineer - iWATERS database search; USGS; Data obtained from nearby wells     NA      NA      NA      Topographic mary, Visual inspection (certification) of the proposed site     NM Office of the St		
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Alternative Closure Method     Alternative 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.     Protocol and Procedures - based upon the appropriate requirements of Subsection C 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 Permi Number (for liquids, drilling fulds, drilling, drilling fulds, drilling, drilling ful		
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. Plense indicates, 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           Bister Facility Name and Permit Number (for liquids, drilling diudids and drill cuttings)         Subsection C of 19.15.17.13 NMAC           Re-vegetation Plan - based upon the appropriate requirements of Subsection A of 19.15.17.13 NMAC         Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC           Ist         Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC           Instructions: Each sting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.           Ground water is less than 25 feet below the bottom of the buried waste.         NA           NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells         NA           Ground water is more than 100 feet below the bottom of the buried waste.         NA           NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells         NA		
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<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> <li>NA</li> <li>Ground water is more than 100 feet below the bottom of the buried waste.</li> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Yes No</li> <li>Yes No</li> <li>Yes No</li> <li>Yes No</li> </ul>		
<ul> <li>NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells</li> <li>NA</li> <li>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).</li> <li>Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Yes No</li> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance</li> </ul>		
lake (measured from the ordinary high-water mark).       -       Topographic map; Visual inspection (certification) of the proposed site         Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.       -       Visual inspection (certification) of the proposed site; Aerial photo; Satellite image         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.       -       No         -       NM Office of the State Engineer - iWATERS database; 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         Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance       Yes No		
<ul> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> <li>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.</li> <li>NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> <li>Yes No</li> <li>Within 300 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> <li>Yes No</li> <li>Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance</li> </ul>	lake (measured from the ordinary high-water mark).	🗌 Yes 🗌 No
at the time of initial application.       -       NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site         Written confirmation or verification from the municipality; Written approval obtained from the municipality       I       Yes I       No         Within 300 feet of a wetland.       US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site       I       Yes I       No         Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance       Yes I       No		🗌 Yes 🗌 No
Within 300 feet of a wetland.         US Fish and Wildlife Wetland Identification map; Topographic map; 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	at the time of initial application.	🗌 Yes 🗌 No
Within 300 feet of a wetland.         US Fish and Wildlife Wetland Identification map; Topographic map; 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	Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance		🗌 Yes 🗌 No
	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

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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
<ul> <li>Within the area overlying a subsurface mine.</li> <li>Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division</li> </ul>	Yes 🗌 No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	
Within a 100-year floodplain. - FEMA map	│
<ul> <li>On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plane by a check mark in the box, that the documents are attached.</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC</li> <li>Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.</li> <li>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</li> <li>Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Confirmation Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann</li> <li>Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	11 NMAC 15.17.11 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 believed.	ief.
Name (Print):          Title:	
Signature: Date:	
e-mail address: Telephone:	. <u></u>
18.       OCD Approval:       Permit Application (including closure plan)       Image: Closure Plan (only)       Image: Closure Plan (only)         OCD Representative Signature:       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)         OCD Representative Signature:       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)         Title:       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)         Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)         Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)         Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)         Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)         Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only)       Image: Closure Plan (only) <t< th=""><th>see front proje 12015</th></t<>	see front proje 12015
19.	
<u>Closure Report (required within 60 days of closure completion)</u> : 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report. complete this
$\square$ Closure Completion Date: <u>12/6/2010</u>	
20.	
Closure Method:         Waste Excavation and Removal         On-Site Closure Method         If different from approved plan, please explain.	oop systems only)
Closure Method:         Waste Excavation and Removal       On-Site Closure Method       Alternative Closure Method       Waste Removal (Closed-loc         If different from approved plan, please explain.         21.         Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please in 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)	

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#### 22. Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print):Jeff Peace	Title: Field Environmental Coordinator
Signature: She Peore	Date:February 4, 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>Gallegos Canyon Unit 36</u> <u>API No. 3004507330</u> <u>Unit Letter H, Section 19, T28N, R12W</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.

#### <u>General Closure Plan</u>

- 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.
- 2. 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 means and due to misunderstanding of the BCT notice negativements at the section.

No notice was made due to misunderstanding of the BGT notice requirements at 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
ТРН	US EPA Method SW-846 418.1	100	ND
Chlorides	US EPA Method 300.0 or 4500B	250 or background	1,700

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 and BTEX levels were below the stated limits. Chloride was 1,700 ppm which is above the standard. Sampling data is attached.

- 7. BP shall notify the division District III office of its results on form C-141. C-141 is attached.
- 8. 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 a produced water release possibly occurred. BP is requesting NMOCD approve a risk-based closure since this site is on sandstone bedrock and the depth to groundwater is greater than 100 feet.
- 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 will be reclaimed since the well has been 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 will be reclaimed since the well has been plugged and abandoned as part of final reclamation.

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 will be reclaimed since the well has been plugged and abandoned as part of final reclamation.

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 will be reclaimed since the well has been plugged and abandoned as part of final reclamation.

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 will seed the area since the well has been plugged and abandoned as part of final reclamation.

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 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** Initial Report Final Report Name of Company: BP Contact: Jeff Peace Address: 200 Energy Court, Farmington, NM 87401 Telephone No.: 505-326-9479 Facility Name: Gallegos Canyon Unit 36 Facility Type: Natural gas well Surface Owner: Federal Mineral Owner: Federal API No. 3004507330 LOCATION OF RELEASE North/South Line Unit Letter Section Feet from the Feet from the Township Range East/West Line County: San Juan 1,013 Н 19 28N 12W 1,758 North East Latitude 36.65001 Longitude 108.14754 **NATURE OF RELEASE** Type of Release: unknown, possibly produced water Volume of Release: unknown Volume Recovered: none Source of Release: below grade tank – 95 bbl Date and Hour of Occurrence: Date and Hour of Discovery: November unknown 9, 2010; 3:33 PM Was Immediate Notice Given? If YES, To Whom? Yes No Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.  $\square$  Yes  $\square$  No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Sampling of the soil beneath the BGT was done during removal to ensure no soil impacts from the BGT. Soil analysis resulted in TPH and BTEX below standards. Chloride analysis resulted in 1,700 ppm, which is above the BGT standard of 250 ppm. Analysis results are attached. Describe Area Affected and Cleanup Action Taken.\* BGT was removed and the area underneath the BGT was sampled. Sampling results showed the soil exceeded the standard for chloride. BP is requesting NMOCD approved a risk-based closure for this site since it is no sandstone bedrock and the depth to water is greater than 100 feet. The area under the BGT was backfilled and compacted and the well site will be reclaimed since the well has been plugged and abandoned. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION goel Signature: Approved by Environmental Specialist: Printed Name: Jeff Peace Title: Field Environmental Coordinator Approval Date: Expiration Date: E-mail Address: peace.jeffrey@bp.com Conditions of Approval: Attached Date: February 4, 2015 Phone: 505-326-9479

\* Attach Additional Sheets If Necessary

	BLAGG ENGINEERING, INC.	API#: 3004507330
CLIENT:	P.O. BOX 87, BLOOMFIELD, NM 87413	API#: 3004507330
	(505) 632-1199	
FIELD REPORT:	BGT CONFIRMATION TEMP. PIT CLOSURE / RELEASE INVESTIGATION (other)	PAGE No: of
SITE INFORMATION	SITE NAME: GCU # 36	DATE STARTED: <b>11/09/10</b>
QUAD/UNIT: H SEC: 19 TW	P: 28N RNG: 12W PM: NM CNTY: SJ ST: NM	DATE FINISHED:
QTR-QTR/FOOTAGE: SE/NE	1,758'N'/1,013'E LEASE TYPE: FEDERAL' STATE / FEE / INDIAN	- ENVIRONMENTAL
LEASE #: SF079244A	PROD. FORMATION: FT CONTRACTOR: MBF - J. WILBORN	SPECIALIST: NJV
REFERENCE POINT	WELL HEAD (W.H.) GPS COORD.: 36.65018 X 108.14	758 GLELEV.: 5,683'
1) 95 BBL BGT		EARING FROM W.H.: 68', S10.5E
2)	GPS COORD.: DISTANCE/B	
3)	GPS COORD.: DISTANCE/B	EARING FROM W.H.:
4)	GPS COORD.: DISTANCE/B	EARING FROM W.H.:
LAB INFORMATION:	CHAIN OF CUSTODY RECORD(S): HALL	OVM READING (com)
	BGT SAMPLE DATE: 11/09/10 SAMPLE TIME: 1533 LAB ANALYSIS: 418	.1/8015/8021/300.0 (CI) NA
2) SAMPLE ID:	SAMPLE DATE: LAB ANALYSIS:	
3) SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	
4) SAMPLE ID:	SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:	
SOIL DESCRIPTION	SOIL TYPE: SAND SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / O	THER BEDROCK (SANDSTONE)
SOIL COLOR:DARK YE	LOWISH ORANGE	
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTL CONSISTENCY (NON COHESIVE SOILS): LC		
CONSISTENCY (NON COHESIVE SOILS): [LC MOISTURE: DRY (SLIGHTLY MOIST) MOIST / W		
SAMPLE TYPE: GRAB (COMPOSITE - #		
DISCOLORATION/STAINING OBSERVED	YES/NO EXPLANATION -	······
ANY AREAS DISPLAYING WETNESS: YES / NO	EXPLANATION -	
	TOM ON BEDROCK SURFACE. COLLECTED SAMPLE FROM SOIL & BEDROC	K BENEATH BGT. BEDROCK VERY
HARD, SLIGHTLY FRIABLE, NO EVID	ENCE OF ANY RELEASE FROM BGT OBSERVED.	
EXCAVATION DIMENSIONS (if applicable	): NA ft. X NA ft. X NA ft. cubic yards e	excavated (if applicable): NA
SITE SKETCH	WELL $\oplus$ PLOT PLAN circle: attached OV	M CALIB. READ. =
		M CALIB. GAS = <b>NA</b> ppm
		IE: <u>NA</u> am/pm DATE: <u>NA</u>
		MISCELL. NOTES
	Г	BGT - DW /DB TSB - Y
	E.D. @ GRADE	
		W.O.: N1125958
	S.P.D. @ T.B. $\sim 6'$ $\xrightarrow{X \times X}$ B.G.	PAYKEY: ZEGJ01RIGS
	PBGTL	
	T.B. ~ 6' B.G.	GOOGLE EARTH
· ·		W.H36.650179 / 108.147572
TSB - TANK SIDEWALL BURIED	UP SLOPE /	BGT 36.649997 / 108.147530
DW/DB - DOUBLE WALL / DOUBLE E	OTTOM. N/A - NOT APPLICABLE OR NOT AVAILABLE.	
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVAT T.B. = TANK BOTTOM; PBGTL = PREVIOUS BE	ION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; LOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL.	Magnetic declination: <b>10°</b> E
TRAVEL NOTES: CALLOUT:	11/05/10 - AFTER. ONSITE: 11/09/10 - AFTER. (SCI	HED.)

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CLIENT:	Blagg Engineering			Clien	t Sample ID:	5 PC-TB	@6' 95 BBL BET				
Lab Order:	1011530			Col	lection Date:	11/9/2010	0 3:33:00 PM				
Project:	GCU #36			Da	te Received:	11/12/20	10				
Lab ID:	1011530-01				Matrix:	trix: SOIL					
Analyses	· · · · · · · · · · · · · · · · · · ·	Result	PQL	Qual	Units	DF	Date Analyzed				
EPA METHOD	8015B: DIESEL RANGE	ORGANICS		<u></u>			Analyst: SCC				
Diesel Range O	Organics (DRO)	ND	10		mg/Kg	1	11/14/2010 12:26:29 AM				
Surr: DNOP		93.4	61.7-135		%REC	1	11/14/2010 12:26:29 AM				
	8015B: GASOLINE RANG	GE					Analyst: NSB				
Gasoline Range	e Organics (GRO)	ND	5.0		mg/Kg	1	11/16/2010 10:27:33 PM				
Surr: BFB		104	89.7 <b>-1</b> 25		%REC	1	11/16/2010 10:27:33 PM				
EPA METHOD	300.0: ANIONS						Analyst: SRM				
Chloride		1700	75		mg/Kg	50	11/30/2010 11:40:24 PM				
	8260B: VOLATILES SHO	RT LIST					Analyst: MMS				
Benzene		ND	0.050		mg/Kg	1	11/17/2010 3:15:00 PM				
Toluene		ND	0.050		m <b>g/Kg</b>	1	11/17/2010 3:15:00 PM				
Ethylbenzene		ŅD	0.050		mg/Kg	1	11/17/2010 3:15:00 PM				
Xylenes, Total		ND	0.10		mg/Kg	1	11/17/2010 3:15:00 PM				
Surr: 4-Brome	ofluorobenzene	94.6	82.2-105		%REC	1	11/17/2010 3:15:00 PM				
	418.1: TPH						Analyst: LRW				
Petroleum Hydro	ocarbons, TR	ND	20		mg/Kg	1	11/16/2010				

## Hall Environmental Analysis Laboratory, Inc.

Date: 06-Dec-10

Qualifiers:

\* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

•

PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Page 1 of 1

# **QA/QC SUMMARY REPORT**

Petroleum Hydrocarbons, TR         ND         mg/Kg         20           Sample ID:         LCS         Batch ID:         24543         Analysis Date:         11/16/20           Petroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         0         93.6         86.8         116		lagg Engineering CU #36								Work	Order:	1011530
Sample ID: MB-24643         MBLK         Batch ID:         24643         Analysis Date:         11/23/2010 3:21:10 f           Choirde         ND         mg/Kg         1.5         Sample ID:         LCS2         Batch ID:         24643         Analysis Date:         11/23/2010 3:31:31 f           Choirde         14.09         mg/Kg         1.5         15         0         93.9         90         110           Choirde         140.9         mg/Kg         1.5         15         0         93.9         90         110           Choirde         140.9         mg/Kg         1.5         15         0         93.9         90         110           Sample ID:         LGS2-4643         MBLK         Batch ID:         24543         Analysis Date:         11/16/20           Patroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         93.6         66.8         116         44.9         16.2           Sample ID:         LCSD-24643         LCSD         Batch ID:         24543         Analysis Date:         11/16/20         21.232 F           Desel Range Organics (RO)         ND         mg/Kg         10         50         8         81.6         1.6         111/13/2010 2:12:32 F	Analyte	Result	Units	PQL	SPK Va	a SPK ref	%Rec L	.owLimit Hi	ghLimit	%RPD	RPDLimi	t Qual
Chlonide         ND         mg/Kg         1.5           Sample [D:         LCS-24643         LCS         Batch ID:         24643         Analysis Date:         11/23/2010 3:38:34 f           Chlonide         14.09         mg/Kg         1.5         15         0         93.9         90         110           Method:         EPA Method 418.1: TPH         Batch ID:         24543         Analysis Date:         11/16/20           Sample ID:         IDS-24543         MBL/K         Batch ID:         24543         Analysis Date:         11/16/20           Sample ID:         LCS-24643         LCS         Batch ID:         24543         Analysis Date:         11/16/20           Sample ID:         LCS-24643         LCS         Batch ID:         24643         Analysis Date:         11/16/20           Sample ID:         LCS-24643         LCS         Batch ID:         24643         Analysis Date:         11/16/20           Petroleum Hydrocarbons, TR         92.22         mg/Kg         20         100         92.2         86.8         116         141         16.2           Method:         EPA Method 8015B: Diesel Range Organics         Sample ID:         14/13/2010 2:42:12:32 F         Diesel Range Organics (ORO)         MD         mg/Kg<			MDLK				Ratch ID:	24643	Anoly	eie Date:	11/22/2010	3-21-10 DM
Sample ID:         LCS         Batch ID:         24643         Analysis Date:         11/23/2010 3.38.34 /           Chioride         14.09         mg/Kg         1.5         15         0         93.9         90         110           Method:         EPA Method 418.1: TPH         Sample ID:         MB-24643         Analysis Date:         11/16/20           Sample ID:         LCS-24543         MBLK         Batch ID:         24543         Analysis Date:         11/16/20           Petroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         0         93.6         66.8         116         11/16/20           Petroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         0         93.6         66.8         116         11/16/20           Sample ID:         LCS-24643         LCSD         Batch ID:         24543         Analysis Date:         11/16/20           Petroleum Hydrocarbons, TR         92.22         mg/Kg         10         0         92.2         46.8         116         11/13/2010 2:12:32 F           Sample ID:         LCS-24499         MBLK         Batch ID:         24499         Analysis Date:         11/13/2010 2:12:32 F           Diseel Range Organics (DRO) <td>•</td> <td></td> <td></td> <td>4 5</td> <td></td> <td></td> <td>Daton ID.</td> <td>24043</td> <td>Analys</td> <td>515 Date.</td> <td>11/25/2010</td> <td>7 3.2 1. IV FIV</td>	•			4 5			Daton ID.	24043	Analys	515 Date.	11/25/2010	7 3.2 1. IV FIV
Chloride         14.09         mg/Kg         1.5         15         0         93.9         90         110           Method:         EPA Method 418.1: TPH Sample ID: MB-24543         MBLK         Batch ID:         24543         Analysis Date:         11/16/201           Sample ID:         LCS-24543         LCS         Batch ID:         24543         Analysis Date:         11/16/201           Petroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         0         93.8         86.8         116         11/16/201           Petroleum Hydrocarbons, TR         92.22         mg/Kg         20         100         0         92.2         86.8         116         11/16/201           Petroleum Hydrocarbons, TR         92.22         mg/Kg         10         0         92.2         86.8         116         11/13/2010 2:12:32 F           Method:         EPA Method 8016B: Diesel Range Organics         Mg/Kg         10         50         0         86.1         64.8         116         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         M2.53         mg/Kg         10         50         0         86.1         64.8         116         11/13/2010 2:42:43 F           Diesel Range Organics (DRO)			-	1.5			Batch ID <sup>.</sup>	24643	Analys	sis Dato <sup>,</sup>	11/23/2010	) 3·38·34 DM
Sample ID:         MB-24543         MBLK         Batch ID:         24543         Analysis Date:         11/16/201           Petroleum Hydrocarbons, TR         ND         mg/Kg         20          11/16/20           Sample ID:         LCS         Batch ID:         24543         Analysis Date:         11/16/20           Petroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         0         93.6         66.8         116         -           Sample ID:         LCSD-24643         LCSD         Batch ID:         24543         Analysis Date:         11/16/20           Petroleum Hydrocarbons, TR         92.22         mg/Kg         20         100         0         92.2         68.8         116         -         -         -         -         11/16/20         -         -         11/16/20         -         -         -         11/16/20         -         -         -         11/16/20         -         -         -         11/16/20         -         -         -         11/16/20         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <t< td=""><td>·</td><td></td><td></td><td>1.5</td><td>15</td><td>0</td><td></td><td></td><td></td><td>Dio Date.</td><td>11/20/2010</td><td>/ <b>5.50</b>.54 1 M</td></t<>	·			1.5	15	0				Dio Date.	11/20/2010	/ <b>5.50</b> .54 1 M
Petroleum Hydrocarbons, TR         ND         mg/Kg         20           Sample ID:         LCS         Batch ID:         24543         Analysis Date:         11/16/20           Petroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         0         93.6         68.8         116         11/16/20           Petroleum Hydrocarbons, TR         92.22         mg/Kg         20         100         0         92.2         86.8         116         1.9         11/16/20           Petroleum Hydrocarbons, TR         92.22         mg/Kg         20         100         0         92.2         86.8         116         1.9         16.2           Method:         EPA Method 8015B: Diesel Range Organics         Sample ID:         LCS         Batch ID:         24499         Analysis Date:         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         ND         mg/Kg         10         50         0         85.1         64.6         116         Batch ID:         24499         Analysis Date:         11/13/2010 3:20:48 F           Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         86.6         64.6         116         1.85         1.7.4           Met	Method: EPA Metho	od 418.1: TPH										
Sample ID:         LCS         Batch ID:         24543         Analysis Date:         11/16/201           Petroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         0         93.6         66.8         116         1176/20           Petroleum Hydrocarbons, TR         92.22         mg/Kg         20         100         0         92.2         86.8         116         1.49         16.2           Method:         EPA Method 8016B: Diesel Range Organics         Sample ID:         MBLX         Batch ID:         24499         Analysis Date:         11/16/20           Sample ID:         LCS-24499         MBLK         Batch ID:         24499         Analysis Date:         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         ND         mg/Kg         10         50         85.1         64.6         116         11/13/2010 2:46:41 F           Diesel Range Organics (DRO)         42.53         mg/Kg         10         50         85.1         64.6         116         1.85         17.4           Method:         EPA Method 8015B: Gasoline Range         Mg/Kg         10         50         0         86.6         64.6         116         1.85         17.4           Method:         EPA Method 8016	Sample ID: MB-24543	3	MBLK				Batch ID:	24543	Analys	sis Date:		11/16/2010
Petroleum Hydrocarbons, TR         93.60         mg/Kg         20         100         0         93.6         86.8         116           Sample ID:         LCSD-24543         LCSD         mg/Kg         20         100         0         92.2         86.8         116         1.49         16.2           Method:         EPA Method 8015B:         Diesel Range Organics         MBLK         Batch ID:         24499         Analysis Date:         11/13/2010 2:12:32 F           Sample ID:         MB-24499         MBLK         Batch ID:         24499         Analysis Date:         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         ND         mg/Kg         10         50         0         85.1         64.6         116         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         42.53         mg/Kg         10         50         0         85.1         64.6         116         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         85.1         64.6         116         1.55         17.4           Method:         EPA Method 8015B:         Gasoline Range Organics (GRO)         MD         mg/Kg         5.0         25         0	Petroleum Hydrocarbor	ns, TR ND	mg/Kg	20								
Sample ID:         LCSD-24543         LCSD         Batch ID:         24543         Analysis Date:         11/16/201           Petroleum Hydrocarbons, TR         92.22         mg/Kg         20         100         0         92.2         86.8         116         1.49         16.2           Method:         EPA Method 8015B: Diesel Range Organics         MBLK         Betch ID:         24499         Analysis Date:         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         ND         mg/Kg         10         50         0         85.1         64.6         116           Sample ID:         LCSD-24499         LCSD         Batch ID:         24499         Analysis Date:         11/13/2010 2:46:41 F           Diesel Range Organics (DRO)         42.53         mg/Kg         10         50         0         85.1         64.6         116         Batch ID:         24499         Analysis Date:         11/13/2010 3:20:48 F           Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         86.6         64.6         116         Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         25         98.1	Sample ID: LCS-2454	13	LCS				Batch ID:	24543	Analys	sis Date:		11/16/2010
Petroleum Hydrocarbons, TR         92.22         mg/Kg         20         100         92.2         86.8         116         1.49         16.2           Method:         EPA Method 8015B: Diesel Range Organics Sample ID:         MBL/K         Batch ID:         24499         Analysis Date:         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         ND         mg/Kg         10         50         0         85.1         64.6         116         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         42.53         mg/Kg         10         50         0         85.1         64.6         116         11/13/2010 2:16:46:41 F           Diesel Range Organics (DRO)         42.53         mg/Kg         10         50         0         85.1         64.6         116         11/13/2010 3:20:48 F           Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         86.6         64.6         116         1.85         17.4           Method:         EPA Method 8015B: Caseline Range         MBL/K         Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         25         9.8.1         95.7         12	Petroleum Hydrocarbon	ns, TR 93.60	mg/Kg	20	100	0	93.6	86.8	116			
Method:         EPA Method 8015B: Diesel Range Organics           Sampte ID:         MB-24499         MBLK         Batch ID:         24499         Analysis Date:         11/13/2010 2:12:32 F           Diesel Range Organics (DRO)         ND         mg/Kg         10         Sample ID:         LCS-24499         LCS         Batch ID:         24499         Analysis Date:         11/13/2010 2:16:32 F           Diesel Range Organics (DRO)         42.53         mg/Kg         10         50         0         85.1         64.6         116           Sample ID:         LCSD-24499         LCSD         Batch ID:         24499         Analysis Date:         11/13/2010 3:20:48 F           Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         86.6         64.6         116         1.85         17.4           Method:         EPA Method 8015B: Gasoline Range         Sample ID:         MBLK         Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         25         0         98.1         95.7         120           Method:         EPA Method 8260B: Volatiles Short List         Sample ID:         malysis Date:         11/16/2010 6:26:3	Sample ID: LCSD-24	543	LCSD				Batch ID:	24543	Analys	sis Date:		11/16/2010
Sample ID:       MB-24499       MBLK       Batch ID:       24499       Analysis Date:       11/13/2010 2:12:32 F         Diesel Range Organics (DRO)       ND       mg/Kg       10       50       8 atch ID:       24499       Analysis Date:       11/13/2010 2:12:32 F         Diesel Range Organics (DRO)       42.53       mg/Kg       10       50       0       85.1       64.6       116       11/13/2010 3:20:48 F         Diesel Range Organics (DRO)       43.32       mg/Kg       10       50       0       86.6       64.6       116       1.85       17.4         Method:       EPA Method 8015B:       Gasoline Range Organics (GRO)       ND       mg/Kg       5.0       8 atch ID:       24500       Analysis Date:       11/16/2010 7:34:01 F         Gasoline Range Organics (GRO)       ND       mg/Kg       5.0       25       0       98.1       95.7       120         Method:       EPA Method 8260B:       Volatiles Short List       Sample ID:       MBLK       Batch ID:       24500       Analysis Date:       11/16/2010 6:26:38 F         Gasoline Range Organics (GRO)       24.53       mg/Kg       5.0       25       0       98.1       95.7       120         Method:       EPA Method 8260B:       Volat	Petroleum Hydrocarbor	is, TR 92.22	mg/Kg	20	100	0	92.2	86.8	116	1.49	16.2	
Diesel Range Organics (DRO)         ND         mg/Kg         10           Sample ID:         LCS-24499         LCS         Batch ID:         24499         Analysis Date:         11/13/2010 2:46:41 F           Diesel Range Organics (DRO)         42.53         mg/Kg         10         50         0         85.1         64.6         116           Sample ID:         LCSD-24499         LCSD         Batch ID:         24499         Analysis Date:         11/13/2010 3:20:48 F           Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         86.6         64.6         116         1.85         17.4           Method:         EPA Method 8015B:         Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         Sample ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         25         0         98.1         95.7         120           Method:         EPA Method 8260B: Volatiles Short List         Sample ID:         MBLK         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         EI         Sample ID:         <	Method: EPA Metho	d 8015B: Diesel Ran	ge Organics									
Sample ID:         LCS         Batch ID:         24499         Analysis Date:         11/13/2010 2:46:41 F           Diesel Range Organics (DRO)         42.53         mg/Kg         10         50         0         85.1         64.6         116         116           Sample ID:         LCSD         Batch ID:         24499         Analysis Date:         11/13/2010 3:20:48 F           Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         86.6         64.6         116         1.85         17.4           Method:         EPA Method 8015B:         Gasoline Range         MBLK         Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         Batch ID:         24500         Analysis Date:         11/16/2010 7:05:03 F           Gasoline Range Organics (GRO)         24.53         mg/Kg         5.0         25         0         98.1         95.7         120           Method:         EPA Method 8260B: Volatiles Short List         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Ethylibenzene         ND         mg/Kg	Sample ID: MB-24499	)	MBLK				Batch ID:	24499	Analys	sis Date:	11/13/2010	) 2:12:32 PM
Diesel Range Organics (DRO)       42.53       mg/Kg       10       50       0       85.1       64.6       116         Sample ID:       LCSD-24499       LCSD       Batch ID:       24499       Analysis Date:       11/13/2010 3:20:48 F         Diesel Range Organics (DRO)       43.32       mg/Kg       10       50       0       86.6       64.6       116       1.85       17.4         Method:       EPA Method 8015B:       Gasoline Range       MBLK       Batch ID:       24500       Analysis Date:       11/16/2010 7:34:01 F         Gasoline Range Organics (GRO)       ND       mg/Kg       5.0       Batch ID:       24500       Analysis Date:       11/16/2010 7:05:03 F         Gasoline Range Organics (GRO)       24.53       mg/Kg       5.0       25       0       98.1       95.7       120         Method:       EPA Method 8260B: Volatiles Short List       Batch ID:       24500       Analysis Date:       11/16/2010 6:26:38 F         Benzene       ND       mg/Kg       0.050       Ethylbenzene       ND       mg/Kg       0.050         Kylenes, Total       ND       mg/Kg       0.050       Ethylbenzene       ND       mg/Kg       0.10         Sample ID:       Ics-24500       LCS </td <td>Diesel Range Organics</td> <td>(DRO) ND</td> <td>mg/Kg</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Diesel Range Organics	(DRO) ND	mg/Kg	10								
Sample ID:         LCSD         Batch ID:         24499         Analysis Date:         11/13/2010 3:20:48 F           Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         86.6         64.6         116         1.85         17.4           Method:         EPA Method 8015B: Gasoline Range           Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         Batch ID:         24500         Analysis Date:         11/16/2010 7:05:03 F           Gasoline Range Organics (GRO)         24.53         mg/Kg         5.0         25         0         98.1         95.7         120           Method:         EPA Method 8260B: Volatiles Short List         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Sylenes, Total         ND         mg/Kg         0.050         ID         I	Sample ID: LCS-2449	9	LCS				Batch ID:	24499	Analys	sis Date:	11/13/2010	2:46:41 PM
Diesel Range Organics (DRO)         43.32         mg/Kg         10         50         0         86.6         64.6         116         1.85         17.4           Method:         EPA Method 8015B: Gasoline Range         Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         Eatch ID:         24500         Analysis Date:         11/16/2010 7:05:03 F           Gasoline Range Organics (GRO)         24.53         mg/Kg         5.0         25         0         98.1         95.7         120           Method:         EPA Method 8260B: Volatiles Short List         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Ethylbenzene         ND         mg/Kg         0.050           Zylenes, Total         ND         mg/Kg         0.10         Z4500         Analysis Date:         11/16/2010 6:55:00 P           Benzene         ND         mg/Kg         0.050         Ethylbenzene         ND         mg/Kg         0.10           Sample ID:         Ics-24500         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 P	Diesel Range Organics	(DRO) 42.53	mg/Kg	10	50	0	85.1	64.6	116			
Method:         EPA Method 8015B: Gasoline Range           Sample ID:         MB-24500         MBLK         Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         Batch ID:         24500         Analysis Date:         11/16/2010 7:34:01 F           Gasoline Range Organics (GRO)         ND         mg/Kg         5.0         Batch ID:         24500         Analysis Date:         11/16/2010 7:05:03 F           Gasoline Range Organics (GRO)         24.53         mg/Kg         5.0         25         0         98.1         95.7         120           Method:         EPA Method 8260B: Volatiles Short List         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Ethylbenzene         ND         mg/Kg         0.050           Xylenes, Total         ND         mg/Kg         0.050	Sample ID: LCSD-244	199	LCSD				Batch ID:	24499	Analys	sis Date:	11/13/2010	3:20:48 PM
Sample ID: MB-24500       MBLK       Batch ID:       24500       Analysis Date:       11/16/2010 7:34:01 F         Gasoline Range Organics (GRO)       ND       mg/Kg       5.0       5.0       Batch ID:       24500       Analysis Date:       11/16/2010 7:34:01 F         Gasoline Range Organics (GRO)       24.53       mg/Kg       5.0       25       0       98.1       95.7       120         Method:       EPA Method 8260B: Volatiles Short List       Sample ID:       mb-24500       MBLK       Batch ID:       24500       Analysis Date:       11/16/2010 6:26:38 F         Benzene       ND       mg/Kg       0.050       0.050       11/16/2010 6:26:38 F       11/16/2010 6:26:38 F         Benzene       ND       mg/Kg       0.050       11/16/2010 6:26:38 F       11/16/2010 6:26:38 F         Benzene       ND       mg/Kg       0.050       11/16/2010 6:26:38 F         Sample ID:       hbb mg/Kg       0.050       11/16/2010 6:26:38 F         Sample ID:       ND       mg/Kg       0.050       11/16/2010 6:25:00 F         Ethylbenzene       ND       mg/Kg       0.10       11/16/2010 6:55:00 F         Sample ID:       Ics-24500       IccS       Batch ID:       24500       Analysis Date:       11/16/2010 6:55	Diesel Range Organics	(DRO) 43.32	mg/Kg	10	50	0	86.6	64.6	116	1.85	17.4	
Gasoline Range Organics (GRO)       ND       mg/Kg       5.0         Sample ID:       LCS       Batch ID:       24500       Analysis Date:       11/16/2010 7:05:03 F         Gasoline Range Organics (GRO)       24.53       mg/Kg       5.0       25       0       98.1       95.7       120         Method:       EPA Method 8260B; Volatiles Short List       Batch ID:       24500       Analysis Date:       11/16/2010 6:26:38 F         Benzene       ND       mg/Kg       0.050       Date:       11/16/2010 6:26:38 F         Benzene       ND       mg/Kg       0.050       Ethylbenzene       ND       mg/Kg       0.050         Xylenes, Total       ND       mg/Kg       0.10       EtcS       Batch ID:       24500       Analysis Date:       11/16/2010 6:55:00 F         Benzene       ND       mg/Kg       0.050       Ethylbenzene       10       10       101       73.3       116	Method: EPA Metho	od 8015B: Gasoline R	ange									
Sample ID:         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 7:05:03 F           Gasoline Range Organics (GRO)         24.53         mg/Kg         5.0         25         0         98.1         95.7         120           Method:         EPA Method 8260B: Volatiles Short List         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Ethylbenzene         ND         mg/Kg         0.050           Xylenes, Total         ND         mg/Kg         0.10         EtcS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 F           Benzene         ND         mg/Kg         0.050         Ethylbenzene         ND         mg/Kg         0.10           Sample ID:         Ics-24500         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 F           Benzene         1.009         mg/Kg         0.050         1         0         101         73.3         116	Sample ID: MB-24500	)	MBLK				Batch ID:	24500	Analys	sis Date:	11/16/2010	7:34:01 PM
Gasoline Range Organics (GRO)       24.53       mg/Kg       5.0       25       0       98.1       95.7       120         Method:       EPA Method 8260B: Volatiles Short List       Batch ID:       24500       Analysis Date:       11/16/2010 6:26:38 F         Sample ID:       mb-24500       MBLK       Batch ID:       24500       Analysis Date:       11/16/2010 6:26:38 F         Benzene       ND       mg/Kg       0.050       Ethylbenzene       ND       mg/Kg       0.050         Xylenes, Total       ND       mg/Kg       0.10       EtcS       Batch ID:       24500       Analysis Date:       11/16/2010 6:55:00 F         Benzene       ND       mg/Kg       0.050       Ethylbenzene       ND       mg/Kg       0.10         Sample ID:       Ics-24500       LCS       Batch ID:       24500       Analysis Date:       11/16/2010 6:55:00 F         Benzene       1.009       mg/Kg       0.050       1       0       101       73.3       116	Gasoline Range Organi	cs (GRO) ND	mg/Kg	5.0								
Method:         EPA Method 8260B: Volatiles Short List           Sample ID:         mb-24500         MBLK         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Structure         ND         mg/Kg         0.050         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Systems         Totuene         ND         mg/Kg         0.050         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 P           Sample ID:         Ics-24500         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 P           Benzene         1.009         mg/Kg         0.050         1         0         101         73.3         116	Sample ID: LCS-2450	0	LCS				Batch ID:	24500	Analys	is Date:	11/16/2010	7:05:03 PM
Sample ID: mb-24500         MBLK         Batch ID:         24500         Analysis Date:         11/16/2010 6:26:38 F           Benzene         ND         mg/Kg         0.050         Interview         Interv	Gasoline Range Organi	cs (GRO) 24.53	mg/Kg	5.0	25	0	98.1	95.7	120			
Benzene         ND         mg/Kg         0.050           Toluene         ND         mg/Kg         0.050           Ethylbenzene         ND         mg/Kg         0.050           Xylenes, Total         ND         mg/Kg         0.10           Sample ID:         Ics-24500         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 P           Benzene         1.009         mg/Kg         0.050         1         0         101         73.3         116	Method: EPA Metho	d 8260B: Volatiles Sh	nort List									
Toluene         ND         mg/Kg         0.050           Ethylbenzene         ND         mg/Kg         0.050           Xylenes, Total         ND         mg/Kg         0.10           Sample ID:         Ics-24500         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 P           Benzene         1.009         mg/Kg         0.050         1         0         101         73.3         116	Sample ID: mb-24500	)	MBLK				Batch ID:	24500	Analys	is Date:	11/16/2010	6:26:38 PM
Ethylbenzene         ND         mg/Kg         0.050           Xylenes, Total         ND         mg/Kg         0.10           Sample ID:         Ics-24500         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 P           Benzene         1.009         mg/Kg         0.050         1         0         101         73.3         116	Benzene	ND	mg/Kg	0.050								
Xylenes, Total         ND         mg/Kg         0.10           Sample ID:         Ics-24500         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 P           Benzene         1.009         mg/Kg         0.050         1         0         101         73.3         116	Toluene	ND	mg/Kg	0.050								
Sample ID:         Ics-24500         LCS         Batch ID:         24500         Analysis Date:         11/16/2010 6:55:00 P           Benzene         1.009         mg/Kg         0.050         1         0         101         73.3         116	Ethylbenzene	ND	mg/Kg	0.050								
Benzene 1.009 mg/Kg 0.050 1 0 101 73.3 116	Xylenes, Total	ND	mg/Kg	0.10								
	Sample ID: lcs-24500		LCS				Batch ID:	24500	Analys	is Date:	11/16/2010	6:55:00 PM
Toluene 0.9629 mg/Kg 0.050 1 0 96.3 90.5 117			• •		-				-			
	Toluene	0.9629	mg/Kg	0.050	1	0	96.3	90.5	117			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

Н

Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Page 1

# Hall Environmental Analysis Laboratory, Inc.

	Sample Receipt C	hecklist		
Client Name BLAGG		Date Received	d:	11/12/2010
Work Order Number 1011530		Received by	LCD	A-
Checklist completed by: Muchull	price 11/1	2//D	ibels checked by:	Initials
Matrix: C	Carrier name: Greyhound			
Shipping container/cooler in good condition?	Yes 🔽	No 🗌	Not Present	
Custody seals intact on shipping container/cooler?	Yes 🗹	No 🗔	Not Present	Not Shipped
Custody seals intact on sample bottles?	Yes 🗌	No 🗀	N/A	
Chain of custody present?	Yes 🖌	No 🗆		
Chain of custody signed when relinquished and received	1? Yes 🗹	No 🗔		
Chain of custody agrees with sample labels?	Yes 🗹	No 🗔		
Samples in proper container/bottle?	Yes 🔽	No 🗌		
Sample containers intact?	Yes 🔽	No 🗌		
Sufficient sample volume for indicated test?	Yes 🗹	· No 🗌		
All samples received within holding time?	Yes 🗹	No 🗍		Number of preserved
Water - VOA vials have zero headspace? No Vo	OA vials submitted 🛛 🗹	Yes	No 🗔	botties checked for pH:
Water - Preservation labels on bottle and cap match?	Yes 🗋	No 🗌	N/A 🗹	
Water - pH acceptable upon receipt?	Yes 🗌	No 🗌	N/A 🗹	<2 >12 unless noted
Container/Temp Blank temperature?	3.7°	<6° C Acceptabl	θ	below.
COMMENTS:		If given sufficient	time to cool.	
Client contacted Date co	ntacted:	Perse	on contacted	
Contacted by: Regardi	ng:			
Comments:				
				······································
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				×
Corrective Action				
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Chain-of-Custody Record				Turn-Around						-						-	4				
Client: BLACE ENER- BP AMERICA				- Standard	Standard												-	IEN RAT			
				Project Name	<b>;</b>				<u>.</u> *										•••	•••	
Mailing	Address	P.C	7. BOX 87	- GC	.U #3	6		4901 Hawkins NE - Albuquerque, NM 87109													
		BLF	D. NM 87413	Project #:				1				-3975			-		4107				
Phone	#: (5	505)	D., NM 87413 632-1199	-					K							· ·			en of state	د کر به	
email o				Project Maņa	ger:	1	no	<u></u>	( <u>y</u>	sel)				04)						ЭЩ.	
QA/QC	Package: Idard		Level 4 (Full Validation)	Project Mana	ison	VELE	Z	TMB's (80218)	TPH (Gas only)	as/Die				PO4,SC	PCB's		1.	0.0		Skinput	
Accred	itation	Othe	۶۲	Sampler: 1	IELSON Deves	VEE	۲		HdT +	15B (G	(1)	(H)		3,NO <sub>2</sub> ,	/ 8082			(30		Par Post	or N)
	(Type)			Sample Tem	perature ,	37	01	Ĩ Å	ш	180	4 4	E G	tals	NC NC	des	2	0	ð		r r	Σ
Date	Time	Matrix	Sample Request ID		Preservative Type		ale sea statut	BTEX)-MTBE	BTEX + MTBE	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,CI,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides	8260B (VOA)	70 (Semi	CHLORI		Pr.C	Air Bubbles (Y
11/9/10	(533	SOIL	5 PC-78C6- 95 88- 867	402-1	COOL		-1			1	$\checkmark$									$\overline{\langle}$	
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<u> </u>		<u> </u>		Α																	
Date:	Time: 1445 Time:	Relinquish	Mult	Received by:	Dows	IIII2 IIII2 Date	2010 9:34 cm Time	Rer	narks TP	 ?: ?H	- e	<u> </u>		Ľ	127	D	0	NY	<u> </u>	<u>                                     </u>	

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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

