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 87505	

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State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office. For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

<u>Pit, Below-Grade Tank, or</u> Proposed Alternative Method Permit or Closure Plan Application
Type of action: Below grade tank registration Permit of a pit or proposed alternative method Closure of a pit, below-grade tank, or proposed alternative method Modification to an existing permit/or registration 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 Company       OGRID #: 778         Address:       200 Energy Court, Farmington, NM 87401       OIL CONS. DIV DIST. 3         Facility or well name:       VANDEWART A 005A       OCT of 5 2017
API Number:       3004522363       OCD Permit Number:       UC1 2 3 2011         U/L or Qtr/Qtr       J       Section       14       Township       29N       Range       08W       County:       San Juan         Center of Proposed Design:       Latitude       36.72295       Longitude       -107.64217       NAD83
Surface Owner:       Federal       State       Private       Tribal Trust or Indian Allotment         2.       Pit:       Subsection F, G or J of 19.15.17.11 NMAC       PBCFT Chosure Tepoth         Temporary:       Drilling       Workover       Submitted after tepoth         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       Yelebee       Submitted       Submitted       Submitted       Yelebee       Submitted       Yelebee         Liner Seams:       Welded       Factory       Other       Volume:       bbl       Dimensions: L
3.       TANK A         Below-grade tank:       Subsection I of 19.15.17.11 NMAC       TANK A         Volume:       95       bbl Type of fluid:       Produced Water         Tank Construction material:       Steel
<ul> <li>4.</li> <li>Alternative Method:</li> <li>Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.</li> </ul>
<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, hospital, 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>

Oil Conservation Division

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)

Screen Netting Other

6. .

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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.

9. <u>Siting Criteria (regarding permitting)</u> : 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.				
General siting				
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank □ 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			
<ul> <li>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)</li> <li>Written confirmation or verification from the municipality; Written approval obtained from the municipality</li> </ul>	🗌 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			
<ul> <li>Within an unstable area. (Does not apply to below grade tanks)</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	🗌 Yes 🗌 No			
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			
<ul> <li>Within 300 feet from a occupied 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 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				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa				
<ul> <li>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			
<ul> <li>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.</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 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			
<ul> <li>10.</li> <li><u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u>: Subsection B of 19.15.17.9 N <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dot attached.</i></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 NMAC</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 19.15.17.12 NMAC</li> <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>	cuments are			
Previously Approved Design (attach copy of design) API Number: or Permit Number:				
II.         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 doc         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:				

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12. *         Permanent Pits Permit Application Checklist:       Subsection B of 19.15.17.9 NMAC         Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the 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 19.15.17.10 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         Quality Control/Quality Assurance Construction and Installation Plan         Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC         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	documents are
13. Proposed Closure: 19.15.17.13 NMAC	
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency 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	
14.         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. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable 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.	
<ul> <li>Ground water is less than 25 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> </ul>	□ 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
<ul> <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> </ul>	□ Yes □ No □ NA
<ul> <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> </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>	🗌 Yes 🗌 No
<ul> <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> </ul>	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	
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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>						
- Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area.						
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map						
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗌 No					
16.	1					
On-Site Closure Plan Checklist:       (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure play a check mark in the box, that the documents are attached.         Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC         Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection 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.         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         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 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 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	.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 bel	ief.					
Name (Print):            Title:						
Name (Print):						
Signature: Date:						
Signature:       Date:         e-mail address:       Telephone:         18.       OCD Approval:       Permit Application (including closure plan)         0CD Representative Signature:       Octore plan       Octore plan         0CD Representative Signature:       Octore plan       Approval Date:         19.       19.						
Signature:       Date:         e-mail address:       Telephone:         Image: Instruction including closure plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:       Octor plan (only)         Image: Instruction including closure plan (only)       OCD Conditions (see attachment)         OCD Representative Signature:       Octor plan (only)         Image: Instruction including closure plan (only)       OCD Permit Number:         Image: 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.	3112017 the closure report.					
Signature:       Date:         e-mail address:       Telephone:         18.       OCD Approval:       Permit Application (including closure tan)         OCD Representative Signature:       Approval Date:         Title:       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 report is required to be submitted to the division within 60 days of the completion of the closure activities.	3112017 the closure report.					
Signature:       Date:         e-mail address:       Telephone:         18.       OCD Approval:       Permit Application (including closure plan)         OCD Representative Signature:       Oetee         Ite:       Approval Date:       Oetee         Title:       OCD Permit Number:       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 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.					
Signature:	the closure report. complete this					

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Oil Conservation Division

#### 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): Erin Garifalos

Signature:

Title: Field Environmental Coordinator

erin garifalos

Date: October 20, 2017

e-mail address: erin.garifalos@bp.com

Telephone: (832) 609-7048

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### BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

#### BELOW-GRADE TANK CLOSURE PLAN

### VANDEWART A 005A

API No. 3004522363

#### Unit Letter J Section 14 T 29N R 08W

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**

1. 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.

#### Notice is attached.

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.

#### Notice was provided and is attached.

- 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 for recycling.

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	10	1.5
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	61
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	1000
Chlorides	US EPA Method 300.0 or 4500B	620	<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 for chloride, TPH and BTEX with all concentrations of chlorides and TPH below the stated limits. BTEX will be addressed via the spill and release guidelines. The field report and laboratory reports are 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 release has occurred, BTEX and TPH were above regulatory standards. Attached is a laboratory report and C-141.

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

## Sampling results indicate a release has occurred but is below regulatory standards. Attached is a laboratory report and field report.

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 has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is 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 has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is 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 has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is 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.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is 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.

The area has been backfilled and a 105 BBL shallow low profile above-grade tank set atop BGT location. The location will be reclaimed once the well is plugged and abandoned.

- 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.

BP did not meet the 60 closure completion requirement due to an error in internal tracking. Closure report on C-144 form is included including photos of reclamation completion.

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.

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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.

						e, NM 873						
			Rele	ease Notifi	catio		orrective A	ctior	1			
						<b>OPERA</b>			<ul> <li>Initi</li> </ul>	al Report		Final Repor
	Name of Company BP America Production Company Address 200 Energy Court, Farmington, NM 87401				Contact Erin							
Facility Na			M 87401				No. (832) 609-7048 De : Natural Gas We	11				
									ADINI			
Surface Ow	ner: Federa	l		Mineral	Owner:	Federal			APING	. 300452236	}	
						N OF RE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the		West Line	County C	or	luon
J	14	29N	08W	1,700	Soi		1,600	Eas	St		ai	i Juan
			Latitud	e 36.72295	L	ongitude -1	07.64217	NAD	83			
						OF REL						
Type of Rele	ase: none	2		NA.	IURE		Release: : unkno	own	Volume I	Recovered: :	N/A	
Source of Re	lease: bolc	w grade ta	nk - 05	bbl		Date and I	Hour of Occurrence		Date and	Hour of Dis		:
Was Immedi			TIK - 95			n/a If YES, To	Whom?		n/a			
was minieur	ale Notice		Yes	No 🗌 Not F	lequired	II 1 LS, IC	whom?					
By Whom?						Date and H	Hour					
Was a Water	course Rea		N F			If YES, V	olume Impacting t	the Wat	ercourse.			
If a Watercon	irse was Im	pacted, Descr	ibe Fully.*	ç.								
Describe Cau	ise of Probl	em and Reme	dial Action	Taken.* Same	ling of t	he soil hene	ath the BGT was	s done	during rer	noval Soil	analys	sis resulted
							ow BGT closure					
						and will be y results are	addressed via th	ne spill	and releas	se guidelin	es. Fie	ld reports
Describe Are	a Affected	and Cleanup A	Action Tak		looralor	y results are	allacheu.					
Describe Are	a Anecicu			No actio			npacted mat					
							be address				0	
				Final lab	oorato	ry analysi	s determine	d no r	remedia	l action i	s req	uired.
							knowledge and u					
							nd perform correct arked as "Final R					
should their of	operations h	nave failed to a	adequately	investigate and	remediat	e contaminat	ion that pose a thr	eat to g	round water	r, surface wa	ater, hu	man health
		addition, NMC ws and/or regi		tance of a C-141	report d	loes not reliev	e the operator of	respons	ibility for c	ompliance v	with any	y other
		0					OIL CON	SERV	ATION	DIVISIO	DN	
l	ring	Wilfald	24					0		( )		
Signature: April Signature: April Signature:					Approved by	Environmental S	pedialis	t:	0			
Printed Name	Erin C	Garifalos							h	20		5
		onmenta		rdinator			IDIDUA.	-				
						Approval Da	te:103120		Expiration	Date:		
E-mail Addre	ess: erin.	garifalos	@bp.	com		Conditions o	f Approval:			Attached		
Date: Octob	er 20, 201	7	Phone	(832) 609-7048						- ruacheo		
* Attach Addi				(002) 000 1040		ht		2	20			
						NAF	17304	29	JYL			

bp



**BP America Production Company** 200 Energy Court Farmington, NM 87401

July 28, 2017

Bureau of Land Management Whitney Thomas 6251 College Suite A Farmington, NM 87402

#### VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: VANDEWART A 005A API #: 3004522363

Dear Mrs. Thomas,

As part of the NM "Pit Rule": 19.15.17.13 Closure Requirements, Paragraph J. BP America Production Company (BP) is required to notify the surface owner of BP's plans to close/remove a below grade tank. BP wishes to inform you of our plans to close/remove the below grade tank on its well pad located on your surface. BP plans to commence this work on or about July 31, 2017. If there aren't any unforeseen problems, the work should be completed within 10 working days.

As a point of clarification, BP will be closing the below grade tank and either operating without one or replacing it with an above ground tank, the well site will continue to operate.

If witnessing of the tank removal is required please contact me for a specific time (505)-326-9497.

Sincerely,

Steven Moskal

**BP** America Production Company

#### **Garifalos**, Erin

From:	Buckley, Farrah (CH2M HILL)
Sent:	Friday, July 28, 2017 8:45 AM
То:	'Smith, Cory, EMNRD'; 'Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)';
	'brandon.powell@state.nm.us'
Cc:	'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Moskal, Steven; Garifalos, Erin
Subject:	BP Pit Close Notification - VANDEWART A 005A

BP America Production Company 200 Energy Court Farmington, NM 87401 Phone: (505) 326-9200

#### SENT VIA E-MAIL TO: CORY.SMITH@STATE.NM.US; VANESSA.FIELDS@STATE.NM.US

July 28, 2017

New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

#### RE: Notice of Proposed Below-Grade Tank (BGT) Closure

VANDEWART A 005A API 30-045-22363 (J) Section 214– T29N – R08W San Juan County, New Mexico

Dear Mr. Cory Smith and Mrs. Vanessa Fields,

In regards to the captioned subject and requirements of the NMOCD pit rule, this letter is notification that BP is planning to close a 95bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around July 31, 2017.

Should you have any questions, please feel free to contact BP at our Farmington office.

Sincerely,

Steven Moskal BP Field Environmental Coordinator (505) 326-9497

.

*Farrah Buckley* BGT Project Support 970-946-9199 -cell

This email and any attachments are intended only for the addressee(s) listed above and may contain confidential, proprietary, and/or privileged information. If you are not an intended recipient, please immediately advise the sender by return email, delete this email and any attachments, and destroy any copies of same. Any unauthorized review, use, copying disclosure or distribution of this email and any attachments is prohibited.

CLIENT: BP	BLAG P.O. BOX 8	13 API #: <u>3004522363</u> TANK ID (if applicble): <u>A</u>						
FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER: PAGE #: 1 of							
SITE INFORMATION QUAD/UNIT: J SEC: 14 TWP: 1/4-1/4/FOOTAGE: 1,700'S / 1,6	29N RNG: 8W 00'E NW/SW	PM: <b>NM</b> CNT LEASE TYPE: FEDERAL	Y: <b>SJ</b> ST: <b>NN</b> STATE / FEE / INDIAN	DATE FINISHED:	)1/17 JV			
REFERENCE POINT	GPS COORD.: GPS COORD.: GPS COORD.:	H.) GPS COORD.: 36.72295 X 107.	36.72275 X 107.641 64217 DISTANCE DISTANCE DISTANCE	97         GL ELEV.: 6           2/BEARING FROM W.H.:         113.5', N           2/BEARING FROM W.H.:	,927' 41.5W			
SAMPLING DATA:         1) SAMPLE ID:       5PC - TB @ 5'         2) SAMPLE ID:	J (95) SAMPLE DATE:	SAMPLE TIME: SAMPLE TIME:	1015         LAB ANALYSIS:           LAB ANALYSIS:	8015B/8021B/300.0 (Cl)	OVM READING (ppm) 8,083			
SOIL DESCRIPTION SOIL COLOR: MOSTLY DARK COHESION (ALL OTHERS): NON COHESIVE SLIGHTL CONSISTENCY (NON COHESIVE SOILS): CO MOISTURE: DRY (SLIGHTLY MOIST MOIST W SAMPLE TYPE: GRAB (COMPOSITE) # DISCOLORATION/STAINING OBSERVED: YES NITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE EQUIPMENT SET OVER RECLAIMED AREA: OTHER: MMOCD OR BLM REPS. NOT PI BELOW GRADE). EXCAVATION DIMENSION ESTIMATION	YELLOWISH BROWN         COHESIVE / COHESIVE / [HIGHLY CO         YODSE [FIRM]         DENSE [VERY]         ET / SATURATED / SUPER SATURATED / SUPER SATURATED / SUPER SATURATED / SUPER SATURATION - DARK GR         YES         LOST INTEGRITY OF EQ         DAND/OR OCCURRED : [YES] NO         YES         NO         EXPLANATION - CONTRESS CO	PLASTICITY (CLAYS): DHESIVE DENSITY (COHESIV DENSITY (COHESIV HC ODOR DETECTED ANY AREAS DISPLAY ANY AREAS DISPLAY	NON PLASTIC / SLIGHTLY PLASTI /E CLAYS & SILTS): SOFT / FIF D: YES NO EXPLANATION - I ING WETNESS: YES NO EX S ABOVE BGT BASE (5 FT TION - INSPECTION PORT AL APPEARANCE & HYDR PROFILE ABOVE-GRADE ALL IMPACTED MATERIA	C / COHESIVE / MEDIUM PLASTIC / HIGH RM / STIFF / VERY STIFF / HARD DISCOLORED SOILS & BEDRO PLANATION - 	CK.			
		>1,000' NEAREST SURFA	AN circle: attached	MOCD TPH CLOSURE STD: <u>5,00</u> OVM CALIB. READ. = <u>100.0</u> ppr OVM CALIB. GAS = <u>100</u> ppr TIME: <u>10:27</u> (am)pm DATE: <u>0</u> MISCELL. NOT WO: REF #: <b>P-860</b>	mRF =1.00 m 8/01/17			
COMPRESSOR				VID:       VHIXONEV11         PJ #:       Permit date(s):       06/14         OCD Appr. date(s):       05/31         Tank       OVM = Organic Vapor Met         D       ppm = parts per million         A       BGT Sidewalls Visible: Y / I         BGT Sidewalls Visible: Y / I         BGT Sidewalls Visible: Y / I	N N N			
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL APPLICABLE OR NOT AVAILABLE; SW-SINGL NOTES: <b>GOOGLE EARTH IMAG</b> revised: 11/26/13	E WALL; DW - DOUBLE WALL; SB - SI	NGLE BOTTOM; DB - DOUBLE BOTT		Magnetic declination: 10	<sup>•</sup> E 05E-6.SKF			

<b>Analytical Report</b>
Lab Order 1708108

#### Date Reported: 8/4/2017

#### Hall Environmental Analysis Laboratory, Inc.

#### **CLIENT:** Blagg Engineering Client Sample ID: 5PC-TB @ 5' (95) Project: VANDEWART A #5A Collection Date: 8/1/2017 10:15:00 AM Matrix: SOIL Received Date: 8/2/2017 7:25:00 AM Lab ID: 1708108-001 PQL Qual Units Result **DF** Date Analyzed Batch Analyses EPA METHOD 300.0: ANIONS Analyst: MRA 20 8/2/2017 12:12:17 PM 33135 Chloride ND 30 mg/Kg EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst TOM

EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analyst	TOM
Diesel Range Organics (DRO)	1000	94		mg/Kg	10	8/2/2017 9:59:03 AM	33129
Motor Oil Range Organics (MRO)	510	470		mg/Kg	10	8/2/2017 9:59:03 AM	33129
Surr: DNOP	0	70-130	S	%Rec	10	8/2/2017 9:59:03 AM	33129
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	1400	130		mg/Kg	40	8/2/2017 10:32:50 AM	33109
Surr: BFB	253	54-150	S	%Rec	40	8/2/2017 10:32:50 AM	33109
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	1.5	0.66		mg/Kg	40	8/2/2017 10:32:50 AM	33109
Toluene	ND	1.3		mg/Kg	40	8/2/2017 10:32:50 AM	33109
Ethylbenzene	2.1	1.3		mg/Kg	40	8/2/2017 10:32:50 AM	33109
Xylenes, Total	61	2.6		mg/Kg	40	8/2/2017 10:32:50 AM	33109
Surr: 4-Bromofluorobenzene	113	66.6-132		%Rec	40	8/2/2017 10:32:50 AM	33109

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
Η	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified
	ND PQL	<ul> <li>D Sample Diluted Due to Matrix</li> <li>H Holding times for preparation or analysis exceeded</li> <li>ND Not Detected at the Reporting Limit</li> <li>PQL Practical Quanitative Limit</li> </ul>	DSample Diluted Due to MatrixEHHolding times for preparation or analysis exceededJNDNot Detected at the Reporting LimitPPQLPractical Quanitative LimitRL

Cł	nain-o	of-Cus	tody Record	Turn-Around	Time:	SAME	Ι.												-	-		
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard		DAY )		100	E													, '
			·	Project Name																Ur	CT.	
Mailing A	ddress:	P.O. BO	¥ 97		NDEWART	A # 5A											l.cor					
				Project #:	VDEVVARI	A # JA							Alt	buqu	erq	ue, I	NM 8	3710	9			
			FIELD, NM 87413	Floject #.				Te	el. 50	)5-34	15-3	-				-	-410	7				
Phone #:		(505) 63	2-1199						<u>1</u>		ц.,	А	nal	ysis	Red	ques	st	<u>i</u>				
email or F				Project Mana	ger:									(4)				300.1)				
QA/QC Pa		_			NELSON V	ELEZ	18)	(ylno	MRO)					Anions (F,Cl,NO <sub>3</sub> ,NO <sub>2</sub> ,PO <sub>4</sub> ,SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's			1				
✓ Stand			Level 4 (Full Validation)		-		(8021B)	as o				(SN		PO	2 P(			water			e	
Accredita				Sampler:	NELSON V		¥.	+ MTBE + TPH (Gas	TPH 8015B (GRO / DRO	1	F	8270SIMS)		NO <sub>2</sub>	808						composite sample	
		□ Other			VYes .		f	TP	0/	418	504	827	s	03,	Se /		(YO	300.0			e si	Dr N
	Гуре)		- Eitheringer		erature <i>F.C.</i>	- cF-16= 3 h	H	BE +	(GR	por	b	or	etal	CI,N	cide	A)	i-V	- II		e	osit	N
				Container	Preservative		I	ITM	15B	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	(F,	esti	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil -		Grab sample	du	Air Bubbles (Y or N)
Date	Time	Matrix	Sample Request ID	Type and #	Туре	HEAL No.	×	+ X	180	Ę	R R	H (8	RA 8	ons	31 P	50B	0 (	orid		p si	L.	Bub
				Meathat	.,,	1708108	BTEX	BTEX	TPF	TP	B	PA	RCI	Ani	808	826	827	Chi		Gra	5 pt.	Air
8/1/19	1015	SOIL	5РС - ТВ @ 5 ' (95)	4 oz 1	Cool	-201	۷		۷									۷			۷	
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8/1/17	1814	Choi	atian Introly.	1	1	08/02/17	Ref	eren	ce #	_	P - 8	860	_									
	I TOT I	samples sub	mitted to Hall Environmental may be suit	bcontracted to other	accredited laboratori	es. This serves as notice of	of this	possil	hility	Any st	b-con	tracte	d data	a will t	e cle	arly no	tated	on the	analy	ical re	port.	

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.

## QC SUMMARY REPORT

WO#: 1708108

04-Aug-17

Hall Environmental	Analysis	Laboratory,	Inc.

Client:Blagg EngineeringProject:VANDEWART A #5A

Sample ID MB-33135	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 33135	RunNo: 44669		
Prep Date: 8/2/2017	Analysis Date: 8/2/2017	SeqNo: 1413639	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
	110			
Sample ID LCS-33135	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-33135 Client ID: LCSS		TestCode: EPA Method RunNo: 44669	300.0: Anions	
	SampType: LCS		300.0: Anions Units: mg/Kg	
Client ID: LCSS	SampType: LCS Batch ID: 33135 Analysis Date: 8/2/2017	RunNo: 44669		RPDLimit Qual

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 2 of 5

# QC SUMMARY REPORT

WO#: 1708108

04-Aug-17

Hall Environmental Analysis Laboratory, Inc.

#### Blagg Engineering **Client:** VANDEWART A #5A **Project:**

Sample ID LCS-33129	SampT	pe: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 33	129	F	RunNo: 4	4661				
Prep Date: 8/2/2017	Analysis D	ate: 8/	2/2017	5	SeqNo: 1	411982	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	73.2	114			
Surr: DNOP	4.5		5.000		89.8	70	130			
Sample ID MB-33129	SampT	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 33	129	F	RunNo: 4	4661				
Prep Date: 8/2/2017	Analysis Da	ate: 8/	2/2017	5	SeqNo: 1	411983	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL
  - Sample container temperature is out of limit as specified
- Page 3 of 5

**Reporting Detection Limit** 

### W

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

## Client: Blagg Engineering

Project: VANDEWART A #5A

Sample ID MB-33109	Tes	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	n ID: 33	109	F	RunNo: 44673					
Prep Date: 8/1/2017	Analysis D	ate: 8/	2/2017	5	SeqNo: 1	413152	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.8	54	150			
	020		1000		01.0	0.				
Sample ID LCS-33109		ype: LC		Tes			8015D: Gaso	line Rang	e	
	SampT	ype: LC	S			PA Method		line Rang	e	
Sample ID LCS-33109	SampT	n ID: 33	S 109	F	tCode: El	PA Method 4673		0	e	
Sample ID LCS-33109 Client ID: LCSS	SampT Batch	n ID: 33	:S 109 2/2017	F	tCode: El	PA Method 4673	8015D: Gaso	0	e RPDLimit	Qual
Sample IDLCS-33109Client ID:LCSSPrep Date:8/1/2017	SampT Batch Analysis D	n ID: 33 <sup>4</sup> ate: 8/	:S 109 2/2017	F	tCode: El RunNo: 4 SeqNo: 1	PA Method 4673 413153	8015D: Gaso Units: mg/K	(g		Qual

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 4 of 5

WO#: 1708108

04-Aug-17

## QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:VANDEWART A #5A

Sample ID MB-33109	ample ID MB-33109 SampType: MBLK						TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 33109 RunNo: 44673					4673	73					
Prep Date: 8/1/2017	Analysis D	ate: 8/	2/2017	5	SeqNo: 1	413168	Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	1.1		1.000		113	66.6	132					
Sample ID LCS-33109	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles				
Client ID: LCSS	Batch	1D: 33	109	F	RunNo: 4	4673						
Prep Date: 8/1/2017	Analysis D	ate: 8/	2/2017	S	SeqNo: 1	413169	Units: mg/M	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.025	1.000	0	103	80	120					
Toluene	1.0	0.050	1.000	0	101	80	120					
Ethylbenzene	1.0	0.050	1.000	0	102	80	120					
Kylenes, Total	3.1	0.10	3.000	0	103	80	120					
Surr: 4-Bromofluorobenzene	1.1		1.000		112	66.6	132					

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: 1708108

04-Aug-17

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HALL ENVIRO ANALYS LABORA		L	Hall Environmental Albu TEL: 505-345-3975 Website: www.hau	490. querq FAX:	Hawkins ue, NM 871 505-345-41	NE 109 S 107	am	ple Log-In Cł	neck List
Client Name: B	BLAGG		Work Order Number:	1708	108			RcptNo:	1
	Anne Thom Anne Thom A		8/2/2017 7:25:00 AM 8/2/2017 7:44:42 AM 8/2//7			Arru . Arru .	Hann Hann		
Chain of Custo	dy								
1. Custody seals	intact on sa	ample bottles?		Yes		No		Not Present V	
2. Is Chain of Cus	stody comp	lete?		Yes		No		Not Present	
3. How was the s	ample deliv	ered?		Cou	rier				
<u>Log In</u> 4. Was an attem	pt made to	cool the samples?	,	Yes		No		NA 🗆	
5. Were all samp	les received	d at a temperature	of >0° C to 6.0°C	Yes		No			
6. Sample(s) in p	oroper conta	ainer(s)?		Yes		No			
7. Sufficient samp	ple volume	for indicated test(s	;)?	Yes	$\checkmark$	No			
8. Are samples (e	except VOA	and ONG) proper	ly preserved?	Yes		No			
9. Was preservat	ive added to	o bottles?		Yes		No		NA 🗌	
10.VOA vials have	e zero head	space?		Yes		No		No VOA Vials 🗹	
11. Were any sam	ple contain	ers received broke	en?	Yes		No		# of preserved bottles checked	
12. Does paperwoo (Note discrepa			×	Yes		No		for pH:	>12 unless noted)
13. Are matrices ca	orrectly ider	ntified on Chain of	Custody?	Yes		No		Adjusted?	
14. Is it clear what				Yes		No			
15. Were all holdin (If no, notify cu	-			Yes		No		Checked by:	
Special Handlin	ng (if app	olicable)							-
16. Was client noti	fled of all di	screpancies with t	his order?	Yes		No		NA 🗹	
Person N	lotified:	NUL R. D. DIR D. D. C.	Date						

By Whom:	Via: eMail Phone Fax In Person
Regarding: Client Instructions:	
	A

17. Additional remarks:

18. Cooler Information

Coole	r No Temp %	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			

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