 <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 	State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 Revised June 6, 2013 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.		
Type of action: Below Permit Closur Modifi Closur or proposed alternative meth <i>Instructions: Please submit on</i> Please be advised that approval of this request does no	of a pit or proposed alternative method e of a pit, below-grade tank, or proposed alternati- cation to an existing permit/or registration e plan only submitted for an existing permitted or	we method non-permitted pit, below-grade tank, -grade tank or alternative request n pollution of surface water, ground water or the		
1. Operator: <u>BP America Production Compan</u> Address: <u>200 Energy Court, Farmington</u> Facility or well name: <u>GALLEGOS CAN</u> API Number: <u>3004523950</u>	ny OGRID #: 7 NM 87401 YON UNIT 040 OCD Permit Number: OCD Permit Number: Township 31N Range 11W C2221 Longitude			
 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 				
Tank Construction material: Steel Secondary containment with leak detection Image: Secondary containment with leak detection Visible sidewalls and liner Visible sidewalls sidewalls Liner type: Thickness mil 4. Material Material	.11 NMAC <u>TANK B</u> of fluid: <u>Produced water</u> Visible sidewalls, liner, 6-inch lift and automatic over alls only Other <u>Single wall/Double botton</u> HDPE PVC Other	n; no visible sidewalls		
<u>Alternative Method</u> : Submittal of an exception request is required. Exception	centions must be submitted to the Santa Fe Environmer	ntal Bureau office for consideration of approval		

 s. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify				
 6. <u>Netting:</u> Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible) 				
 <u>Signs</u>: 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 				
 8. <u>Variances and Exceptions</u>: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. <i>Please check a box if one or more of the following is requested, if not leave blank:</i> 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 <i>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptate active acti</i>	ptable source			
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			
 Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks) Written confirmation or verification from the municipality; Written approval obtained from the municipality 	🗌 Yes 🗌 No			
 Within the area overlying a subsurface mine. (Does not apply to below grade tanks) Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	🗌 Yes 🗌 No			
 Within an unstable area. (Does not apply to below grade tanks) Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No			
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map				
Below Grade Tanks				
 Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site				
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)				
 Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			

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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
 application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes 🗌 No
 Within 100 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole,	
 or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	Yes No
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes No
 Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
 Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Permanent Pit or Multi-Well Fluid Management Pit	
 Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No
10. Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N 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. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC 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	cuments are NMAC 15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
 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. <u>Permanent Pits Permit Application Checklist</u> : Subsection B of 19.15.17.9 NMAC <i>Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the attached.</i>	documents are			
 Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment 				
 Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC 				
 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H₂S, Prevention Plan 				
 Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan 				
Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC				
^{13.} <u>Proposed Closure</u> : 19.15.17.13 NMAC <i>Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.</i>				
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F	luid Management Pit			
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	attached to the			
closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection 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				
15. <u>Siting Criteria (regarding on-site closure methods only)</u> : 19.15.17.10 NMAC <i>Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour</i> provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. F 19.15.17.10 NMAC for guidance.				
 Ground water is less than 25 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ NA			
 Ground water is between 25-50 feet below the bottom of the buried waste NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	Yes No			
 Ground water is more than 100 feet below the bottom of the buried waste. NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells 	□ Yes □ No □ NA			
 Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
 Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	🗌 Yes 🗌 No			
 Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site 	🗌 Yes 🗌 No			
Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No			
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No			
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance				
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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				
 Within the area overlying a subsurface mine. Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division 	Yes No				
Within an unstable area.					
 Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 					
Within a 100-year floodplain.	Yes No				
- FEMA map	Yes No				
 16. On-Site 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. 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 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 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 cannot be achieved) Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 					
17. Operator Application Certification:					
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bel	ief.				
Name (Print): Title:					
Signature: Date:					
e-mail address: Telephone:					
18					
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment)					
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment) OCD Representative Signature: Approval Date: 3					
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment)					
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Approval Date: Approval Date: Title: Chosure 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.				
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only). OCD Conditions (see attachment) OCD Representative Signature:	the closure report.				
18. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: Approval Date: Approval Date: Title: Chosure 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.				

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Oil Conservation Division

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): Steve Moskal	Title: Field Environmental Coordinator				
Signature: Stee Ma	Date: <u>November 14, 2016</u>				
e-mail address: steven.moskal@bp.com	Telephone: (505) 326-9497				

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BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>NEIL A 009R</u> <u>API No. 3004523950</u> <u>Unit Letter M, Section 04, T31N, R11W</u>

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

General Closure Plan

- 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.

 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.

An equipment associated with the bG1 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
	21 bbl BGT	(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.016
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	< 0.065
TPH	US EPA Method SW-846 418.1 or 8015 extended	100	<u><48</u>
Chlorides	US EPA Method 300.0 or 4500B	250 or background	<30

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

> Soil under the BGT was sampled for TPH, BTEX and chloride with all concentrations below the stated limits. Based on grey to black colored soils, additional samples were collected. All soil samples indicated no impacts from the BGT. The field report and laboratory reports are attached.

- BP shall notify the division District III office of its results on form C-141.
 C-141 is attached.
- If it is determined that a release has occurred, then BP will comply with 19.15.30 NMAC and 19.15.29 NMAC, as appropriate.
 Sampling results indicate a release has not occurred. 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 not occurred. Attached is a laboratory report and field report. The location will be reclaimed once the well is 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 has been backfilled and will be reclaimed once the well has been 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 will be reclaimed once the well has been 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 will be reclaimed once the well has been 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 will be reclaimed once the well has been plugged and abandoned.

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

BP will notify NMOCD when re-vegetation is successful.

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

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

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

Attached 🗌

Release Notification and Corrective Action OPERATOR Initial Report Final Report Name of Company: BP Contact: Steve Moskal Address: 200 Energy Court, Farmington, NM 87401 Telephone No.: 505-326-9497 Facility Name: Neil A 009R Facility Type: Natural gas well Mineral Owner: Federal Surface Owner: Federal API No. 3004523950 LOCATION OF RELEASE East/West Line Unit Letter Feet from the North/South Line Feet from the County: San Juan Section Township Range 04 31N 11W 830 1.085 Μ South West Latitude 36.921910° Longitude -108.000725° NATURE OF RELEASE Type of Release: none Volume of Release: unknown Volume Recovered: N/A Source of Release: below grade tank - 21 bbl Date and Hour of Occurrence: Date and Hour of Discovery: none none 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. 🗌 Yes 🛛 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. Soil analysis resulted for BTEX, TPH and chloride below BGT closure standards. Field reports and laboratory results are attached. Describe Area Affected and Cleanup Action Taken.* No action necessary. Final laboratory analysis determined no remedial action is required. 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 Signature: Approved by Environmental Specialist: Printed Name: Steve Moskal Title: Field Environmental Coordinator Approval Date: **Expiration Date:**

Conditions of Approval:

Phone: 505-326-9497

Date: November 14, 2016 * Attach Additional Sheets If Necessary

E-mail Address: steven.moskal@bp.com

Intification	and Correcti
Santa Fe,	NM 87505

Revised August 8, 2011

Form C-141

Moskal, Steven

From:Railsback, Farrah (CH2M HILL)Sent:Thursday, September 08, 2016 1:53 PMTo:'Smith, Cory, EMNRD'; 'Fields, Vanessa, EMNRD (Vanessa.Fields@state.nm.us)'Cc:'jeffcblagg@aol.com'; 'blagg_njv@yahoo.com'; Moskal, StevenSubject:RE: BP Pit Close Notification - NEIL A 009R

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

September 8, 2016

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

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

NEIL A 009R API 30-045-23950 (M) Section 04 – T31N – R11W 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 95 bbl BGT and a 21 bbl BGT that will no longer be operational at this well site. We anticipate this work to start on or around September 14, 2016.

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

Sincerely,

Steven Moskal BP Field Environmental Coordinator

Farrah Railsback BGT Project Support 970-946-9199 -cell

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bp



BP America Production Company 200 Energy Court Farmington, NM 87401

September 8, 2016

Bureau of Land Management Gary Smith 6251 College Suite A Farmington, NM 87402

VIA EMAIL

Re: Notification of plans to close/remove a below grade tank Well Name: NEIL A 009R API #: 3004523950

Dear Mr. Smith,

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 September 14, 2016. 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

	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199			API# 3004523950
CLIENT:				TANK ID (if applicble): B
				(if applicble):D
FIELD REPORT:	(circle one): BGT CONFIRMATION	RELEASE INVESTIGA	ITION / OTHER:	PAGE #: of
SITE INFORMATION	SITE NAME: NEIL	A #9R		DATE STARTED: 09/19/16
QUAD/UNIT: M SEC: 4 TWP:	31N RNG: 11W PI	M: NM CNTY:	SJ ST: N	
1/4-1/4/FOOTAGE: 830'S / 1,08	SW/SW LEASE	ETYPE: FEDERAL	STATE / FEE / INDIAN	I ENVIRONMENTAL
LEASE #: SF078051	PROD. FORMATION: MV	CONTRACTOR: BP	RIKE - A. SALAZAR	SPECIALIST(S): NJV
REFERENCE POINT	WELL HEAD (W.H.) G	PS COORD.: 3	6.92221 X 108.00	092 GL ELEV.: 6,240'
1) 21 BGT (SW/DB) - B	GPS COORD.: 36	5.921910 X 108.0	00725 DISTAN	CE/BEARING FROM W.H.: 105.5', S15E
2)	GPS COORD.:		DISTAN	CE/BEARING FROM W.H.:
3)	GPS COORD.:		DISTAN	CE/BEARING FROM W.H.:
4)	GPS COORD.:			CE/BEARING FROM W.H.:
SAMPLING DATA:]			READING (ppm)
1) SAMPLE ID: 5PC - TB @ 6				8015B/8021B/300.0 (CI) 2.0
2) SAMPLE ID: 1 @ 6.5' (21 - 0	SAMPLE DATE: 09/	19/16 SAMPLE TIME:	1015 LAB ANALYSIS:	8015B/8021B/300.0 (CI) 1.8
3) SAMPLE ID:				
4) SAMPLE ID:	SAMPLE DATE:			
SOIL DESCRIPTION				
SOIL COLOR: OLIVE GRAY				TIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC IRM / STIFF / VERY STIFF / HARD
CONSISTENCY (NON COHESIVE SOILS): LO				PHYSICALLY FROM BGT AREA.
SAMPLE TYPE: GRAB COMPOSITE # DISCOLORATION/STAINING OBSERVED: YES N				XPLANATION - BENEATH BGT.
SITE OBSERVATION		and the second		
APPARENT EVIDENCE OF A RELEASE OBSERVE		PLANATION: BASED ON	DISCOLORATION & P	HYSICAL HYDROCARBON ODOR.
EQUIPMENT SET OVER RECLAIMED AREA: OTHER: BEDROCK ENCOUNTERED 6.5		ATED IMPACTED SOI	LS @ 21 BGT (see sket	ch below). NMOCD REP. PRESENT TO
WITNESS SAMPLING.				
SOIL IMPACT DIMENSION ESTIMATION: DEPTH TO GROUNDWATER: >100' N	ft. X11 EAREST WATER SOURCE: >1,00			NESTIMATION (Cubic Yards) : <u>22 +/-</u> NMOCD TPH CLOSURE STD: <u>1,000</u> ppm
	BGT Located : off on s			
	4			OVM CALIB. READ. = ppm RF =0.52
COLLECTED 8 PT.	WH	AMPLE ID TIME SW @,4'-5' (21) 1105	0VM (ppm) 0.6	OVM CALIB. GAS = <u>100</u> ppm TIME: <u>12:00</u> an(pm) DATE: <u>09/18/16</u>
COMPOSITE FROM EXCAVATED IMPACTED		VSW @ 4'-5' (21) 1107	0.6	MISCELL. NOTES
SOILS @ TIME - 1430 OVM = 14.4 ppm		ISW @ 4'-5' (21) 1115 SW @ 4'-5' (21) 1132	83.4 2.2	WO:
FENG		.511@4-5 (21) 1152	2.2	REF #: P - 709
		ROD.		VID: VHIXONEVB2
			AVATION	PJ #:
		(12' X	11' X 4.5') -25 C.Y.)	Permit date(s): 06/08/10
-				OCD Appr. date(s): 04/08/16 Tank OVM = Organic Vapor Meter
/		(21) PBGTL		ID ppm = parts per million B BGT Sidewalls Visible: Y I(N)
SEPARATOR		T.B. ~ 6' B.G.	Y CDD	BGT Sidewalls Visible: Y / N
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATIO	N DEPRESSION; B.G. = BELOW GRADE: B =		X - S.P.D. = APPROX.; W.H. = WELL HEAD;	BGT Sidewalls Visible: Y / N
T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELC APPLICABLE OR NOT AVAILABLE; SW- SINGLE	DW-GRADE TANK LOCATION; SPD = SAMPLE WALL; DW - DOUBLE WALL; SB - SINGLE B	E POINT DESIGNATION; R.W. = OTTOM; DB - DOUBLE BOTTOM	RETAINING WALL; NA - NOT	Magnetic declination: 10° E
NOTES: GOOGLE EARTH IMAGE	RY DATE: 3/15/2015.	ONSITE:	09/19/16	

revised: 11/26/13

BEI1005E-6.SKF

Analytical Report			
Lab Order 1609A90			
Date Reported: 9/21/2016			

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Blagg Engineering
 Client Sample ID: 5PC - TB @ 6' (21) - B

 Project:
 NEIL A #9R
 Collection Date: 9/19/2016 10:10:00 AM

 Lab ID:
 1609A90-002
 Matrix:
 MEOH (SOIL)
 Received Date: 9/20/2016 8:40:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	9/20/2016 11:02:01 AM	27599
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/20/2016 10:28:26 AM	27592
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/20/2016 10:28:26 AM	27592
Surr: DNOP	100	70-130	%Rec	1	9/20/2016 10:28:26 AM	27592
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	9/20/2016 10:12:49 AM	G37324
Surr: BFB	89.7	68.3-144	%Rec	1	9/20/2016 10:12:49 AM	G37324
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.016	mg/Kg	1	9/20/2016 10:12:49 AM	B37324
Toluene	ND	0.032	mg/Kg	1	9/20/2016 10:12:49 AM	B37324
Ethylbenzene	ND	0.032	mg/Kg	1	9/20/2016 10:12:49 AM	B37324
Xylenes, Total	ND	0.065	mg/Kg	1	9/20/2016 10:12:49 AM	B37324
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	9/20/2016 10:12:49 AM	B37324

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Han Environmental Analys		, , II				Date Reported: 9/21/201	0	
CLIENT: Blagg Engineering		Client Sample ID: 1@6.5' (21)						
Project: NEIL A #9R				Collection	Date: 9/1	9/2016 10:15:00 AM		
Lab ID: 1609A91-001	Matrix:	MEOH (S	OIL)	Received	l Date: 9/2	0/2016 8:40:00 AM		
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst:	LGT	
Chloride	ND	30		mg/Kg	20	9/20/2016 11:14:26 AM	27599	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst:	том	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/20/2016 10:06:02 AM	27592	
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/20/2016 10:06:02 AM	27592	
Surr: DNOP	99.6	70-130		%Rec	1	9/20/2016 10:06:02 AM	27592	
EPA METHOD 8015D: GASOLINE RAM	IGE					Analyst:	NSB	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/20/2016 10:36:16 AM	G37324	
Surr: BFB	82.2	68.3-144		%Rec	1	9/20/2016 10:36:16 AM	G37324	
EPA METHOD 8021B: VOLATILES						Analyst:	NSB	
Benzene	ND	0.020		mg/Kg	1	9/20/2016 10:36:16 AM	B37324	
Toluene	ND	0.041		mg/Kg	1	9/20/2016 10:36:16 AM	B37324	
Ethylbenzene	ND	0.041		mg/Kg	1	9/20/2016 10:36:16 AM	B37324	
Xylenes, Total	ND	0.081		mg/Kg	1	9/20/2016 10:36:16 AM	B37324	
Surr: 4-Bromofluorobenzene	97.0	80-120		%Rec	1	9/20/2016 10:36:16 AM	B37324	

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1609A91

Date Reported: 9/21/2016

Han Environmental Analysis Laboratory, Inc.						Date Reported: 9/21/20	16
CLIENT: Blagg Engineering Project: NEIL A #9R			C		· ·	c-ESW@4'-5' (21) 9/2016 11:05:00 AM	
Lab ID: 1609A91-002	Matrix:	MEOH (SO	OIL)	Received	Date: 9/2	20/2016 8:40:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	9/20/2016 11:26:50 AM	27599
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	том
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/20/2016 10:27:43 AM	27592
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/20/2016 10:27:43 AM	27592
Surr: DNOP	103	70-130		%Rec	1	9/20/2016 10:27:43 AM	27592
EPA METHOD 8015D: GASOLINE RAN	IGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	9/20/2016 10:59:49 AM	G37324
Surr: BFB	83.0	68.3-144		%Rec	1	9/20/2016 10:59:49 AM	G37324
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.017		mg/Kg	1	9/20/2016 10:59:49 AM	B37324
Toluene	ND	0.034		mg/Kg	1	9/20/2016 10:59:49 AM	B37324
Ethylbenzene	ND	0.034		mg/Kg	1	9/20/2016 10:59:49 AM	B37324
Xylenes, Total	ND	0.067		mg/Kg	1	9/20/2016 10:59:49 AM	B37324
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	9/20/2016 10:59:49 AM	B37324

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 2 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order **1609A91** Date Reported: **9/21/2016**

Analytical Report

Hall Environmental Analys	Date Reported: 9/21/2016			
CLIENT: Blagg EngineeringProject: NEIL A #9RLab ID: 1609A91-003	Matrix:	MEOH (SOIL)	Collection	ple ID: 3pc-WSW@4'-5' (21) a Date: 9/19/2016 11:07:00 AM l Date: 9/20/2016 8:40:00 AM
Analyses	Result	PQL Qua	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: LGT
Chloride	ND	30	mg/Kg	20 9/20/2016 11:39:14 AM 27599
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S		Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1 9/20/2016 10:49:31 AM 27592
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1 9/20/2016 10:49:31 AM 27592
Surr: DNOP	106	70-130	%Rec	1 9/20/2016 10:49:31 AM 27592
EPA METHOD 8015D: GASOLINE RAN	IGE			Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1 9/20/2016 11:23:16 AM G3732
Surr: BFB	82.2	68.3-144	%Rec	1 9/20/2016 11:23:16 AM G3732
EPA METHOD 8021B: VOLATILES				Analyst: NSB
Benzene	ND	0.016	mg/Kg	1 9/20/2016 11:23:16 AM B37324
Toluene	ND	0.033	mg/Kg	1 9/20/2016 11:23:16 AM B37324
Ethylbenzene	ND	0.033	mg/Kg	1 9/20/2016 11:23:16 AM B37324
Xylenes, Total	ND	0.065	mg/Kg	1 9/20/2016 11:23:16 AM B37324
Surr: 4-Bromofluorobenzene	97.6	80-120	%Rec	1 9/20/2016 11:23:16 AM B37324

Analytical Report Lab Order 1609A91

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 1
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis	s Labor:	atory, Inc.		Lab Order 1609A91 Date Reported: 9/21/2016
CLIENT: Blagg EngineeringProject: NEIL A #9RLab ID: 1609A91-004	Matrix:	C MEOH (SOIL)	Collection	ple ID: 3pc-NSW@4'-5' (21) a Date: 9/19/2016 11:15:00 AM l Date: 9/20/2016 8:40:00 AM
Analyses	Result	PQL Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS				Analyst: LGT
Chloride	ND	30	mg/Kg	20 9/20/2016 11:51:39 AM 27599
EPA METHOD 8015M/D: DIESEL RANGI		S		Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1 9/20/2016 11:11:18 AM 27592
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1 9/20/2016 11:11:18 AM 27592
Surr: DNOP	104	70-130	%Rec	1 9/20/2016 11:11:18 AM 27592
EPA METHOD 8015D: GASOLINE RANG	iΕ			Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1 9/20/2016 11:46:47 AM G37324
Surr: BFB	98.7	68.3-144	%Rec	1 9/20/2016 11:46:47 AM G37324
EPA METHOD 8021B: VOLATILES				Analyst: NSB
Benzene	ND	0.020	mg/Kg	1 9/20/2016 11:46:47 AM B37324
Toluene	ND	0.040	mg/Kg	1 9/20/2016 11:46:47 AM B37324
Ethylbenzene	ND	0.040	mg/Kg	1 9/20/2016 11:46:47 AM B37324
Xylenes, Total	ND	0.080	mg/Kg	1 9/20/2016 11:46:47 AM B37324
Surr: 4-Bromofluorobenzene	97.3	80-120	%Rec	1 9/20/2016 11:46:47 AM B37324

Analytical Report

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Qualifiers:	*	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 4 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report	
Lab Order 1609A91	

Date Reported: 9/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Blagg Engineering		Client Sample ID: 3pc-SSW@4'-5' (21)					
Project:	NEIL A #9R		Collection Date: 9/19/2016 11:32:00 AM					
Lab ID:	1609A91-005	Matrix: MEOH (SOIL)	Received Date: 9/20/2016 8:40:00 AM					

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	9/20/2016 12:04:04 PM	27599
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	9/20/2016 11:12:23 AM	27592
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/20/2016 11:12:23 AM	27592
Surr: DNOP	101	70-130	%Rec	1	9/20/2016 11:12:23 AM	27592
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	9/20/2016 12:10:16 PM	G37324
Surr: BFB	81.9	68.3-144	%Rec	1	9/20/2016 12:10:16 PM	G37324
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.022	mg/Kg	1	9/20/2016 12:10:16 PM	B37324
Toluene	ND	0.044	mg/Kg	1	9/20/2016 12:10:16 PM	B37324
Ethylbenzene	ND	0.044	mg/Kg	1	9/20/2016 12:10:16 PM	B37324
Xylenes, Total	ND	0.088	mg/Kg	1	9/20/2016 12:10:16 PM	B37324
Surr: 4-Bromofluorobenzene	95.2	80-120	%Rec	1	9/20/2016 12:10:16 PM	B37324

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 11
	ND Not Detected at the Reporting Limit		Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

	Analytical Report
	Lab Order 1609A91
tory, Inc.	Date Reported: 9/21/2016
(Client Sample ID: 8pc-Excav. Impacted Soils (21)
	Collection Date: 9/19/2016 2:30:00 PM
MEOH (SOIL)	Received Date: 9/20/2016 8:40:00 AM

D	BOL O		DE		D ()
Result	PQL Qua	I Units	DF	Date Analyzed	Batch
				Analyst	LGT
ND	30	mg/Kg	20	9/20/2016 12:16:28 PM	27599
ORGANIC	s			Analyst	том
ND	9.2	mg/Kg	1	9/20/2016 10:50:23 AM	27592
ND	46	mg/Kg	1	9/20/2016 10:50:23 AM	27592
96.7	70-130	%Rec	1	9/20/2016 10:50:23 AM	27592
E				Analyst	NSB
ND	3.4	mg/Kg	1	9/20/2016 12:33:46 PM	G3732
88.2	68.3-144	%Rec	1	9/20/2016 12:33:46 PM	G3732
				Analyst	NSB
ND	0.017	mg/Kg	1	9/20/2016 12:33:46 PM	B37324
ND	0.034	mg/Kg	1	9/20/2016 12:33:46 PM	B37324
ND	0.034	mg/Kg	1	9/20/2016 12:33:46 PM	B37324
ND	0.067	mg/Kg	1	9/20/2016 12:33:46 PM	B37324
96.1	80-120	%Rec	1	9/20/2016 12:33:46 PM	B37324
	ND ND 96.7 E ND 88.2 ND ND ND ND ND	ND 30 ORGANICS ND 9.2 ND 46 96.7 70-130 E ND 3.4 88.2 68.3-144 ND 0.017 ND 0.034 ND 0.034 ND 0.034 ND 0.067	ND 30 mg/Kg ORGANICS	ND 30 mg/Kg 20 ORGANICS ND 9.2 mg/Kg 1 ND 46 mg/Kg 1 96.7 70-130 %Rec 1 E ND 3.4 mg/Kg 1 ND 3.4 mg/Kg 1 ND 0.017 mg/Kg 1 ND 0.034 mg/Kg 1 ND 0.034 mg/Kg 1 ND 0.067 mg/Kg 1	ND 30 mg/Kg 20 9/20/2016 12:16:28 PM ORGANICS Analyst ND 9.2 mg/Kg 1 9/20/2016 10:50:23 AM ND 46 mg/Kg 1 9/20/2016 10:50:23 AM 96.7 70-130 %Rec 1 9/20/2016 10:50:23 AM E Analyst ND 3.4 mg/Kg 1 9/20/2016 12:33:46 PM 88.2 68.3-144 %Rec 1 9/20/2016 12:33:46 PM ND 0.017 mg/Kg 1 9/20/2016 12:33:46 PM ND 0.034 mg/Kg 1 9/20/2016 12:33:46 PM ND 0.067 mg/Kg 1 9/20/2016 12:33:46 PM

Matrix:

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 6 of 11
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laborat

CLIENT: Blagg Engineering **Project:** NEIL A #9R Lab ID: 1609A91-006

Analytical Report

Cł	nain-c	of-Cus	stody Record	Turn-Around T	Fime:	SAME		I		н	A	LL	E	NV	IF	20	N	ИЕ	N1	A	L	
lient:	BLAG	G ENGR	. / BP AMERICA	Standard	Rush_	DAY																
	2			Project Name	- Contraction of the Contraction	and the second sec					ww	w.ha	aller	viro	nme	enta	l.cor	m				
/lailing A	ddress:	P.O. BO	X 87	1	NEIL A #	9R		49	01 H	lawk	ins l	NE -	- All	buqu	lerg	ue,	NM	871(9			
		BLOOM	IFIELD, NM 87413	Project #:			1	Te	el. 50)5-34	15-3	975		Fax	505	-345	-410)7				
hone #:		(505) 63	32-1199					Analysis Request														
mail or F	ax#:		, , , , , , , , , , , , , , , , , , ,	Project Manag	ger:									()				(1)				
AVQC Pa	•		Level 4 (Full Validation)		NELSON V	ELEZ	(8021B)	+ TPH (Gas only)	(MRO)			s)		04,50	PCB's			ter - 300.1)				
ccredita				Sampler:	NELSON VI	ELEZ nr	18) SH	(Gas	/ DRO /		,	SIM		0 ₂ ,F	082			/ water			nple	
		□ Other	r	Onlice:		🗇 No		HdT	0/0	118.	504.	3270		03,N	s / 8		(A)	300.0 /			e sal	r N
1 EDD (Гуре)			Sample Temp	erature:	1,9°C		+ 	(GR(po 1	po	or 8	tals	I'N	cide	A)	DV-I	il - 3		e	osit	οY
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO. 1609A96	BTEX + MTE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil -		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
21:01.					0.00		-		-	-												_
	11 80						-		-												-	
119/16	1010	SOIL	5РС - ТВ @ 🍐 ' (21) - В	4 oz 1	Cool	-00Z	V		٧									۷			٧	
ate:	Time:	Relinquish	d by:	Received by:		Date Time	Rem	harks	5:										CTWI			-
119/16	1631	170	In f	Shut	leber	the 1631				A Real Property lies	-	Hixa	and the second			<u>NCE #</u> Mosi			hn R		e	
ite:	Time:	Relinquish	V	Received by:	mogl	Date Time	1	,	VID:	6		NEV	4			SHQF			RITCJ			
[19/14	1904/	An	het Walts	am /	m 091	19116 0840	Refe	eren	ce #		P - 1	709		-			_	_			-	

2

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.

ent: BLAGG ENGR. / BP AMERICA Standard DAY Project Name: Project Name: www.hall ailing Address: P.O. BOX 87 NEIL A # 9R 4901 Hawkins NE - A BLOOMFIELD, NM 87413 Project #: Tel. 505-345-3975 ione #: (505) 632-1199 Project Manager: An VQC Package: Level 4 (Full Validation) NELSON VELEZ Image: Construction of the second secon	RCRA 8 Metals Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8081 Pesticides / 8082 PCB's 8260B (VOA) Barbon (Chloride (soil - 300.0 / water - 300.1) Chloride (soil - 300.0 / water - 300.1)
www.hall ailing Address: P.O. BOX 87 NEIL A # 9R 4901 Hawkins NE - A BLOOMFIELD, NM 87413 Project #: Tel. 505-345-3975 ione #: (505) 632-1199 An nail or Fax#: Project Manager: An VQC Package: NELSON VELEZ Image: Comparison of the second seco	Albuquerque, NM 87109 Fax 505-345-4107 halysis Request () () () () () () () () () ()
BLOOMFIELD, NM 87413 Project #: Tel. 505-345-3975 ione #: (505) 632-1199 An nail or Fax#: Project Manager: An VQC Package: Level 4 (Full Validation) NELSON VELEZ Image: Comparison of the second sec	Pax 502-342-4102 Jaly NO2, PO4, SO4 Jalysis Request (1) (2) (1) (1) (1) (1) (1) (2) (3) (4) (5) (1) (2) (3) (4) (5) (4) (5) (5) (6) (7) (7)
Ione #: (505) 632-1199 nail or Fax#: Project Manager: VQC Package: NELSON VELEZ Standard Level 4 (Full Validation)	MO2, PO4, SO4, 3, NO2, PO4, SO4, / 8082 PCB's / N) 3.0 / water - 300.1
nail or Fax#: Project Manager: VQC Package: NELSON VELEZ Standard □ Level 4 (Full Validation)	3, NO ₂ , PO ₄ , SO ₄) / 8082 PCB's /) .0 / water - 300.1) sample N)
VQC Package: NELSON VELEZ	3, NO2, PO4, / 8082 PCI /) /) 0.0 / water - 5.0 / water - sample N)
VQC Package: NELSON VELEZ Image: Control of the second secon	3, NO2, PO4, / 8082 PCI /) /) 0.0 / water - 5.0 / water - sample N)
xcreditation: Sampler: NECSON VELEZ $\mathcal{NV} \stackrel{\otimes}{s} \stackrel{\otimes}{\mathfrak{G}} \mathcal{Q} \stackrel{\circ}{\mathfrak{H}} \stackrel{\circ}{\mathfrak{H}} \stackrel{\otimes}{\mathfrak{G}}$	Vietals F,Cl,NO ₃ ,NO ₂ ,1 sticides / 8082 (OA) mi-VOA) mi-VOA) (soil - 300.0 / wa (soil - 300.0 / wa es (Y or N) es (Y or N)
	Vietals F,Cl,NO ₃ ,N sticides / { (OA) mi-VOA) (soil - 300.0 (soil - 300.0 (soil - so0.0 (soil - so0.0 (soil - so0.0 nple
Sampler: NELAP Other On lce: V Yes I No I T T <tht< th=""> <tht< th=""> T</tht<></tht<>	Metal: Sticide Mi-V (OA) Mi-V (soil - 3 (soil - 3 (soil - 3 (soil - 3 (soil - 3 (soil - 3) (soil - 3)
EDD (Type) Sample Temperature: V.S C L L L E E E E E	
Sampler: NECSON VELEZ NV NELAP Other On Toe: V Yes I No EDD (Type) Sample Temperature: V.SOZ HL + 38UW + X318 Date Time Matrix Sample Request ID Container Type and # Preservative Type HEAL No	RCRA 8 Metals Anions (F,Cl,NQ, 8081 Pesticides 8260B (VOA) 8270 (Semi-VOA 8270 (Semi-VOA Grgb sample Grgb sample Air Bubbles (Y or
19/16 1015 SOIL DE65'(21) 4021 COOL -001 V V	
119/16 1105 SOIL 3PE-ESWE 4-5/20 4021. COOL -002 V. V.	V 3
119/16 1107 5012 3PE-WSWE4-5'(2) 4021 COOL -003 V V	V 3
1/19/16 1115 5012 3PC-NSWEY-51/20) 402-1 COOL -COL V V	\vee 3
119/16 113 2 5012 3PC-Size 4-5(2) 402-1 COOL -05 V	V 3
19/16 1430 SOIL 8PC-EXONU. IMPRETED 4021 COOL -006 / V	1 1 8
50/15 (21)	
	BP USING THE CIRCLED CONTACT WITH S VID & REFERENCE # WHEN APPLICABLE; Steve Moskal John Ritchie
Ite: Time: Relinquished by: Vince Hixtor 19 14 19 14 16 0840 Reference # 04 14 16 0840	2

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 Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering

Project: NEIL A #9R

Sample ID MB-27599	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 27599	RunNo: 37349		
Prep Date: 9/20/2016	Analysis Date: 9/20/2016	SeqNo: 1160293	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-27599	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-27599 Client ID: LCSS		TestCode: EPA Method RunNo: 37349	300.0: Anions	
	SampType: LCS		300.0: Anions Units: mg/Kg	
Client ID: LCSS	SampType: LCS Batch ID: 27599 Analysis Date: 9/20/2016	RunNo: 37349		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
- R RPD outside accepted recovery limits
- 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

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WO#: **1609A90** 21-Sep-16

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 1609A90

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21-Sep-16

Client:Blagg EProject:NEIL A	ngineering #9R						
Sample ID LCS-27592	SampType: LCS		1 8015M/D: Diesel Rang	e Organics			
Client ID: LCSS Prep Date: 9/20/2016	Batch ID: 27592 Analysis Date: 9/20/2016	RunNo: 37319 SegNo: 1159031	Units: mg/Kg				
Analyte	Result PQL SPK valu 56 10 50.0	e SPK Ref Val %REC LowLimit 0 0 112 62.6	0	RPDLimit Qual			
Diesel Range Organics (DRO) Surr: DNOP	4.8 5.00						
Sample ID MB-27592	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	e Organics			
Client ID: PBS	Batch ID: 27592	RunNo: 37319	RunNo: 37319				
Prep Date: 9/20/2016	Analysis Date: 9/20/2016	SeqNo: 1159032	Units: mg/Kg				
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Diesel Range Organics (DRO)	ND 10						
Motor Oil Range Organics (MRO)	ND 50						
Surr: DNOP	9.6 10.0	0 96.4 70	130				
Sample ID MB-27560	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range	e Organics			
Client ID: PBS	Batch ID: 27560	RunNo: 37319					
Prep Date: 9/19/2016	Analysis Date: 9/20/2016	SeqNo: 1159369	Units: %Rec				
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Surr: DNOP	11 10.0	0 106 70	130				
Sample ID LCS-27560	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	e Organics			
Client ID: LCSS	Batch ID: 27560	RunNo: 37319					
Prep Date: 9/19/2016	Analysis Date: 9/20/2016	SeqNo: 1159425	Units: %Rec				
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Surr: DNOP	4.6 5.00	91.7 70	130				

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
- R RPD outside accepted recovery limits
- 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

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WO#: 1609A90 21-Sep-16

Client: Project:	Blagg En NEIL A #										
Sample ID	B29	SampTy	pe: MI	BLK	Tes	tCode: E	PA Method	8015D: Gase	line Rang	е	
Client ID:	PBS	Batch	ID: G	37324	RunNo: 37324						
Prep Date:		Analysis Da	te: 9	/20/2016	S	SeqNo: 1	159744	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 810	5.0	1000		81.4	68.3	144			
Sample ID	2.5UG GRO LCS	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	Client ID: LCSS Batch ID: G37324					RunNo: 3	7324				
Prep Date:		Analysis Da	te: 9/	20/2016	S	SeqNo: 1	159745	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	24	5.0	25.00	0	95.8	74.6	123			
Surr: BFB		990		1000		98.8	68.3	144			
Sample ID	1609A90-002AMS	SampTy	pe: MS	3	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID:	5PC - TB @ 6' (21)	- Batch	D: G3	37324	F	RunNo: 3	7324				
Prep Date:		Analysis Da	te: 9/	20/2016	5	SeqNo: 1	159746	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	16	3.2	16.24	1.046	91.8	59.3	143			
Surr: BFB		600		649.8		91.9	68.3	144			
Sample ID	1609A90-002AMSI) SampTy	be: MS	SD	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID:	5PC - TB @ 6' (21)	- Batch I	D: G3	7324	R	aunNo: 3	732 <mark>4</mark>				
Prep Date:		Analysis Da	te: 9/	20/2016	S	eqNo: 1	159747	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	e Organics (GRO)	15	3.2	16.24	1.046	84.1	59.3	143	8.09	20	
Surr: BFB		590		649.8		90.6	68.3	144	0	0	

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:NEIL A #9R

.

Sample ID B29	SampT	ype: ME	BLK	Tes	PA Method	8021B: Volat	tiles			
Client ID: PBS	Batch	n ID: B3	7324	F	RunNo: 3	7324				
Prep Date:	Analysis D	ate: 9/	20/2016	159773	Units: mg/Kg					
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	0.98		1.000		98.0	80	120			
	D 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Sample ID 100NG BTEX LCS	Samp1	ype: LC	S	les	Code: El	PA Method	8021B: Volat	iles		
Client ID: LCSS		i ID: B3			tCode: El		8021B: Volat	iles		
		n ID: B3	7324	R		7324	8021B: Volat			
Client ID: LCSS	Batch	n ID: B3	7324 20/2016	R	unNo: 3	7324			RPDLimit	Qual
Client ID: LCSS Prep Date: Analyte	Batch Analysis D	n ID: B3 Date: 9/	7324 20/2016	R	tunNo: 3 GeqNo: 1	7324 159774	Units: mg/K	g	RPDLimit	Qual
Client ID: LCSS Prep Date: Analyte Benzene	Batch Analysis D Result	n ID: B3 pate: 9 / PQL	7324 20/2016 SPK value	R S SPK Ref Val	anNo: 3 SeqNo: 1 %REC	7324 159774 LowLimit	Units: mg/K HighLimit	g	RPDLimit	Qual
Client ID: LCSS Prep Date: Analyte Benzene Toluene	Batch Analysis D Result 0.98	n ID: B3 Date: 9 / PQL 0.025	7324 20/2016 SPK value 1.000	R S SPK Ref Val 0	8unNo: 3 6eqNo: 1 %REC 98.1	7324 159774 LowLimit 75.3	Units: mg/K HighLimit 123	g	RPDLimit	Qual
Client ID: LCSS Prep Date:	Batch Analysis D Result 0.98 0.97	Date: 9/ PQL 0.025 0.050	7324 20/2016 SPK value 1.000 1.000	R S SPK Ref Val 0 0	tunNo: 3 6eqNo: 1 %REC 98.1 96.9	7324 159774 LowLimit 75.3 80	Units: mg/K HighLimit 123 124	g	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
- R RPD outside accepted recovery limits
- 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
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- W Sample container temperature is out of limit as specified

WO#: **1609A90** 21-Sep-16

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MALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

ruu Environmeniai Anatysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Number:	1609A90		RcptNo: 1	
Received by/date: AS	09/20/16				
Logged By: Lindsay Mangin	9/20/2016 8:40:00 AM		Althoo		
Completed By: Lindsay Mangin	9/20/2016 8:47:57 AM		Antyther		
Reviewed By:	09/20/12		0.00		
Chain of Custody					
1. Custody seals intact on sample bottles?		Yes	No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
<u>Log In</u>					
4. Was an attempt made to cool the samp	les?	Yes 🔽	No 🗔	NA 🗌	
5. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes 🖌	No 🗌		
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated te	est(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) pro	operly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottles?		Yes	No 🗹	NA 🗌	
10. VOA viais have zero headspace?		Yes	No 🗋	No VOA Vials 🗹	
11, Were any sample containers received b	roken?	Yes	No 🗹	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH:	12 unless noted)
13. Are matrices correctly identified on Chain		Yes 🗸	No 🗌	Adjusted?	
14. Is it clear what analyses were requested		Yes 🗹	No 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	
(in no, noiny customer for autionzation.)					

Special Handling (if applicable)

16.1	Was client notified of all o	liscrepancies with this order?		Yes [N	lo 🗌	N/	
	Person Notified:		Date					
	By Whom:		Via:	eMail	Phone	Fax	In Person	
	Regarding:							-
	Client Instructions:							

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering Project: NEIL A #9R

Sample ID MB-27599	SampType: MBLK	TestCode: EPA Method		
Client ID: PBS	Batch ID: 27599	RunNo: 37349		
Prep Date: 9/20/2016	Analysis Date: 9/20/2016	SeqNo: 1160293	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
	1.2 1.0			
Sample ID LCS-27599	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID LCS-27599 Client ID: LCSS		TestCode: EPA Method RunNo: 37349	300.0: Anions	
	SampType: LCS		300.0: Anions Units: mg/Kg	
Client ID: LCSS	SampType: LCS Batch ID: 27599 Analysis Date: 9/20/2016	RunNo: 37349		RPDLimit Qual

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
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

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21-Sep-16

WO#: 1609A91

Client: Blagg Engineering

Project: NEIL A #9R

Sample ID	LCS-27592	SampTup	0:10		Too		DA Mothod	904 EM/D: D	and Bang	Organica	
		SampType: LCS Batch ID: 27592			TestCode: EPA Method 8015M/D: Diesel Range Organics RunNo: 37319						
Client ID:											
Prep Date:	9/20/2016	Analysis Date	e: 9/	/20/2016		SeqNo: 1	159031	Units: mg/k	g		
Analyte			PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	56	10	50.00	0	112	62.6	124			
Surr: DNOP		4.8		5.000		95.9	70	130			
Sample ID	MB-27592	SampType	e: MI	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch ID): 27	592	F	RunNo: 3	7319				
Prep Date:	9/20/2016	Analysis Date	e: 9/	20/2016	S	SeqNo: 1	159032	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
	e Organics (MRO)	ND	50								
Surr: DNOP		9.6		10.00		96.4	70	130			
Sample ID	1609A91-001AMS	SampType	e: MS	5	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID:	1@6.5' (21)	Batch ID	: 27	592	F	RunNo: 3	7320				
Prep Date:	9/20/2016	Analysis Date	: 9/	20/2016	S	SeqNo: 1	159363	Units: mg/K	g		
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	44	9.4	46.77	3.061	88.5	33.9	141			
Surr: DNOP		4.6		4.677		98.5	70	130			
Sample ID	1609A91-001AMSI	SampType	e: MS	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	1@6.5' (21)	Batch ID	: 27	592	F	RunNo: 3	7320				
Prep Date:	9/20/2016	Analysis Date	: 9/	20/2016	S	SeqNo: 1	159364	Units: mg/K	g		
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Drganics (DRO)	46	9.7	48.54	3.061	88.9	33.9	141	3.91	20	
Surr: DNOP		4.8		4.854		98.9	70	130	0	0	
Sample ID	MB-27560	SampType	e: Me	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	organics	
Client ID:	PBS	Batch ID	: 27	560	F	RunNo: 3	7319				
Prep Date:	9/19/2016	Analysis Date	: 9/	20/2016	S	SeqNo: 1	159369	Units: %Red	•		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		11		10.00		106	70	130			
Sample ID	LCS-27560	SampType	E: LC	S	Test	tCode: El	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:		Batch ID				RunNo: 3					
Prep Date:		Analysis Date				SeqNo: 1		Units: %Red	;		
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	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
- R RPD outside accepted recovery limits
- 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

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WO#: **1609A91** 21-Sep-16

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering NEIL A #9R **Project:**

Sample ID LCS-27560	SampType: LCS			Test	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	ID: 27	560	R	unNo:	37319				
Prep Date: 9/19/2016	Analysis Da	ate: 9/	20/2016	S	eqNo:	1159425	Units: %Red	:		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.7	70	130			

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
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

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WO#:

21-Sep-16

1609A91

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering NEIL A #9R **Project:**

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Sample ID B29	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G37324			F	RunNo: 3	7324				
Prep Date:	Analysis Date: 9/20/2016			SeqNo: 1159744			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	040		1000		04.4	00.0	4.4.4			
Suit: DFD	810		1000		81.4	68.3	144			
Sample ID 2.5UG GRO LCS		ype: LC		Tes			8015D: Gaso	line Rang	e	
	SampT	Type: LC	S			PA Method		line Rang	e	
Sample ID 2.5UG GRO LCS	SampT	h ID: G3	S	F	tCode: El	PA Method 7324			e	
Sample ID 2.5UG GRO LCS Client ID: LCSS	SampT Batch	h ID: G3	S 7324 20/2016	F	tCode: El	PA Method 7324	8015D: Gaso		e RPDLimit	Qual
Sample ID 2.5UG GRO LCS Client ID: LCSS Prep Date:	SampT Batch Analysis D	h ID: G3 Date: 9/	S 7324 20/2016	F	tCode: El RunNo: 3 SeqNo: 1	PA Method 7324 159745	8015D: Gaso Units: mg/K	íg		Qual

Qualifiers:

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

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WO#: 1609A91 21-Sep-16

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Client: Blagg Engineering

NEIL A #9R **Project:**

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Sample ID B29	Samp	Туре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batc	h ID: B3	7324	F						
Prep Date:	Analysis [Date: 9/	20/2016	5	SeqNo: 1	159773	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	0.98		1.000		98.0	80	120			
Sample ID 100NG BTEX LCS	100NG BTEX LCS SampType: LCS			Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: B3	7324	F	RunNo: 37	7324				
Prep Date:	Analysis E	Date: 9/	20/2016	S	SeqNo: 1	159774	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.1	75.3	123			
Toluene	0.97	0.050	1.000	0	96.9	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.0	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	97.6	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			
Sample ID 1609A91-001AMS	Samp	Гуре: МS	;	TestCode: EPA Method 8021B: Volatiles						
Client ID: 1@6.5' (21)	Batc	h ID: B3	7324	R	RunNo: 37	7324				
Prep Date:	Analysis D)ate: 9/	20/2016	S	SeqNo: 11	159776	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.75	0.020	0.8123	0						
Toluene			0.0123	0	92.6	71.5	122			
	0.76	0.041	0.8123	0	92.6 93.1	71.5 71.2	122 123			
Ethylbenzene	0.76 0.76	0.041 0.041								
Ethylbenzene			0.8123	0	93.1	71.2	123			
Ethylbenzene	0.76	0.041	0.8123 0.8123	0	93.1 93.9	71.2 75.2	123 130			
Ethylbenzene Xylenes, Total	0.76 2.3 0.83	0.041	0.8123 0.8123 2.437 0.8123	0 0 0	93.1 93.9 93.8 102	71.2 75.2 72.4 80	123 130 131	iles		
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	0.76 2.3 0.83 D SampT	0.041 0.081	0.8123 0.8123 2.437 0.8123	0 0 0 Test	93.1 93.9 93.8 102	71.2 75.2 72.4 80	123 130 131 120	iles		
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1609A91-001AMS	0.76 2.3 0.83 D SampT	0.041 0.081 Type: MS h ID: B3	0.8123 0.8123 2.437 0.8123 5D 7324	0 0 0 Tesi	93.1 93.9 93.8 102 tCode: EF	71.2 75.2 72.4 80 PA Method	123 130 131 120			
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1609A91-001AMS Client ID: 1@6.5' (21)	0.76 2.3 0.83 D SampT Batch	0.041 0.081 Type: MS h ID: B3	0.8123 0.8123 2.437 0.8123 5D 7324 20/2016	0 0 0 Tesi	93.1 93.9 93.8 102 tCode: EF	71.2 75.2 72.4 80 PA Method	123 130 131 120 8021B: Volat		RPDLimit	Qual
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1609A91-001AMS Client ID: 1@6.5' (21) Prep Date: Analyte	0.76 2.3 0.83 D SampT Batcl Analysis D	0.041 0.081 Type: MS h ID: B3 Date: 9/2	0.8123 0.8123 2.437 0.8123 5D 7324 20/2016	0 0 0 Tesi R S	93.1 93.9 93.8 102 tCode: EF RunNo: 37 SeqNo: 11	71.2 75.2 72.4 80 PA Method 7324 159777	123 130 131 120 8021B: Volat	g	RPDLimit 20	Qual
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1609A91-001AMS Client ID: 1@6.5' (21) Prep Date: Analyte Benzene	0.76 2.3 0.83 D SampT Batcl Analysis D Result	0.041 0.081 Type: MS h ID: B3 Date: 9/2 PQL	0.8123 0.8123 2.437 0.8123 5D 7324 20/2016 SPK value	0 0 Tesi R SPK Ref Val	93.1 93.9 93.8 102 tCode: EF RunNo: 37 SeqNo: 11 %REC	71.2 75.2 72.4 80 PA Method 7324 159777 LowLimit	123 130 131 120 8021B: Volat Units: mg/K HighLimit	g %RPD		Qual
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1609A91-001AMS Client ID: 1@6.5' (21) Prep Date: Analyte Benzene Toluene	0.76 2.3 0.83 D SampT Batcl Analysis D Result 0.75	0.041 0.081 Fype: MS h ID: B3 Date: 9/2 PQL 0.020	0.8123 0.8123 2.437 0.8123 5D 7324 20/2016 SPK value 0.8123	0 0 Test R SPK Ref Val 0	93.1 93.9 93.8 102 tCode: EF RunNo: 37 SeqNo: 11 %REC 92.7	71.2 75.2 72.4 80 PA Method 7324 159777 LowLimit 71.5	123 130 131 120 8021B: Volat Units: mg/K HighLimit 122	9 %RPD 0.0496	20	Qual
Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene Sample ID 1609A91-001AMS Client ID: 1@6.5' (21) Prep Date:	0.76 2.3 0.83 D SampT Batch Analysis D Result 0.75 0.76	0.041 0.081 Type: MS h ID: B3 Date: 9/2 PQL 0.020 0.041	0.8123 0.8123 2.437 0.8123 5D 7324 20/2016 SPK value 0.8123 0.8123	0 0 0 Test R SPK Ref Val 0 0	93.1 93.9 93.8 102 tCode: EF RunNo: 37 SeqNo: 11 %REC 92.7 94.1	71.2 75.2 72.4 80 7324 159777 LowLimit 71.5 71.2	123 130 131 120 8021B: Volat Units: mg/K HighLimit 122 123	9 %RPD 0.0496 1.10	20 20	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
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Sample pH Not In Range Reporting Detection Limit RL

Р

Sample container temperature is out of limit as specified W

WO#: 1609A91

21-Sep-16

ENVIRONMENTAL ANALYSIS	Hall Environmental A Albu TEL: 505-345-3975 I Website: www.hal	4901 Hawk guerque, NM FAX: 505-34	ins NE 87109 5-4107	Sam	ple Log-In Cl	eck List
Client Name: BLAGG W	ork Order Number:	1609A91			RcptNo:	1
Received by/date: A.S. O	9/20/16					
Logged By: Lindsay Mangin 9/20/	2016 8:40:00 AM		Other	lyttlego		
Completed By: Lindsay Mangin 9/20/	2016 8:54:36 AM		Fin	Ly Hago		
- CXI	04/2012					
Chain of Custody	,	_				
1. Custody seals intact on sample bottles?		Yes			Not Present	
2. Is Chain of Custody complete?		Yes 🗹	1	No 🗌	Not Present	
3. How was the sample delivered?		Courier				
Log In						
4. Was an attempt made to cool the samples?		Yes 🖌		No 🗌	NA	
5. Were all samples received at a temperature of >0	0° C to 6.0°C	Yes 🗹	N	lo 🗌		
6. Sample(s) in proper container(s)?		Yes 🖌		No 🗔		
7. Sufficient sample volume for indicated test(s)?		Yes 🗹	1			
8. Are samples (except VOA and ONG) properly pre-	served?	Yes 🗹		No 🗌	-	
9. Was preservative added to bottles?		Yes	1	No 🖌	NA	
10. VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🗹	
11. Were any sample containers received broken?		Yes		No 🗹	# of preserved	
12. Does paperwork match bottle labels?		Yes 🗹	. 1	No 🗆	bottles checked for pH:	>12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custo	adv2	Yes 🖌	1	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	July	Yes 🗹		No 🗌	8.	
15. Were all holding times able to be met?		Yes 🗹	1	No 🗆	Checked by:	
(If no, notify customer for authorization.)						
Special Handling (if applicable)						
16. Was client notified of all discrepancies with this or	der?	Yes	r	No 🗌	NA 🗹	1
Person Notified:	Date				_	
By Whom:	Via:] eMail] Phone	Fax	In Person	
Regarding: Client Instructions:						
17. Additional remarks:						
18. Cooler Information						
Cooler Information Cooler No Temp °C Condition Seal Int 1 1.8 Good Yes	act Seal No S	Seal Date	Signe	ed By		
			L			

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