District J 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, 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

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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 July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

	N
Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Appli	
Proposed Alternative Method Permit or Closure Plan Appli	ication
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed all Closure of a pit, closed-loop system, below-grade tank, or proposed all Modification to an existing permit Closure plan only submitted for an existing permitted or non-permitted below-grade tank, or proposed alternative method Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade lease be advised that approval of this request does not relieve the operator of liability should operations result in pollution of su	lternative method ed pit, closed-loop system, <i>le tank or alternative request</i>
vironment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental aut	hority's rules, regulations or ordinances.
Operator: BP AMERICA PRODUCTION COMPANY OGRID #: 778	·····
Address: 200 Energy Court, Farmington, NM 87401	
Facility or well name: GALLEGOS CANYON UNIT COM B 143E	
API Number: 3004524284 OCD Permit Number:	
U/L or Qtr/Qtr M Section 25.0 Township 29.0N Range 12W County: Sa	in Juan County
Center of Proposed Design: Latitude <u>36.69341</u> Longitude <u>-108.05567</u>	NAD: 🗌 1927 🗷 1983
Surface Owner: 🔲 Federal 🛄 State 🗷 Private 🛄 Tribal Trust or Indian Allotment	
2. 2. 3. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5	Lx Wx D
ntent)	
Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other	
Liner Seams: Welded Factory Other	1
Elow-grade tank: Subsection I of 19.15.17.11 NMAC <u>Tank ID: A</u> Volume: <u>95.0</u> Dolume: <u>Steel</u> Tank Construction material: <u>Steel</u>	
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	f
☐ Secondary containment with teak detection ☐ Vision side wans, milet of men int and automate overrow sind on ↓ Visible sidewalls and liner Visible sidewalls only Other SINGLE WALLED SINGLE BOTTOMED	
Liner type: Thicknessmil HDPE PVC Other	
	,
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau off	ice for consideration of approval.

at a provide

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 <u>4' Hogwire with single barbed wire</u> Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other_ Monthly inspections (If netting or screening is not physically feasible) Signs: Subsection C of 19.15.17.11 NMAC [] 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers Signed in compliance with 19.15.16.8 NMAC Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system. Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. 🗶 Yes 🗌 No NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells Yes 🗙 No 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 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes No Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image Yes 🗶 No Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search: Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance Yes 🗙 No adopted pursuant to NMSA 1978, Section 3-27-3, as amended. Written confirmation or verification from the municipality; Written approval obtained from the municipality Within 500 feet of a wetland. 🗌 Yes 🗶 No US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. Yes X No Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area. Yes 🔀 No 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

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- FEMA map

11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are
 attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
 Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC. Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
12. Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC
 Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:
above ground steel tanks or haul-off bins and propose to implement waste removal for closure)
13. Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (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 19.15.17.11 NMAC Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Muisance or Hazardous Odors, including H ₂ 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
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 Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Image: Closure Method
 ^{15.} Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if	
facilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that <i>will not</i> be used for future ser Yes (If yes, please provide the information below) No	vice and operations?
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С
17. <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 sourd provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search: USGS; Data obtained from nearby wells	□ Yes □ No □ NA
Ground water is between 50 and 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
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 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 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; 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 adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	🗌 Yes 🗌 No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map: Visual inspection (certification) of the proposed site	🗌 Yes 🗌 No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	🗌 Yes 🗌 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map	🗌 Yes 🗌 No
 18. 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 F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC 	15.17.11 NMAC

Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

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19. Operator Application Certification:	
	is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Jeffrey Peace	Title: Field Environmental Advisor
Signature: ffrey H. Vence	Date: 6/14/2010
e-mail address:_Peace.seffrey@op.com	Telephone: 505-326-9479
20. OCD Approval: Permit Application (including closure plan)	Closure Plan (only)
	Control Plan 12/12/2013 4/22/13
OCD Representative Signature:	Approval Date: 17-1-2
Title: Sensor Hydrologist	OCD Pennit Number:
	e plan prior to implementing any closure activities and submitting the closure report. 1 60 days of the completion of the closure activities. Please do not complete this
22.	
Closure Method: Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain.	Alternative Closure Method 🗌 Waste Removal (Closed-loop systems only)
23. <u>Closure Report Regarding Waste Removal Closure For Closed-I</u> Instructions: Please indentify the facility or facilities for where the two facilities were utilized.	oop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: e liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:	Disposal Facility Permit Number:
Disposal Facility Name:	Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities per Yes (If yes, please demonstrate compliance to the items below	formed on or in areas that will not be used for future service and operations? $() \square$ No
Required for impacted areas which will not be used for future servic	e and operations:
 Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation 	
Re-vegetation Application Rates and Seeding Technique	
24. Closure Report Attachment Checklist: Instructions: Each of the	following items must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached.	,
 Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) 	
Plot Plan (for on-site closures and temporary pits)	
Confirmation Sampling Analytical Results (if applicable)	site closure)
Disposal Facility Name and Permit Number	
Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	
Site Reclamation (Photo Documentation)	Longitude -108.0567 NAD: -1927 🐼 1983
	Longitude NAD: [1927] 1983
25. 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 closes Name (Print): Jeff Peace	sure requirements and conditions specified in the approved closure plan. Title: Field Gnuiron merifal Advisor
Signature: John Rease	Date: Decomber 5, 2013
e-mail address: peace . jeffrey Obp. co	Carr) a Cato DG

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

Form C-141 Revised August 8, 2011

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.

Release Notification and Corrective Action

	OPERATOR	Initial Report	🛛 Final Report
Name of Company: BP	Contact: Jeff Peace		
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479		
Facility Name: Gallegos Canyon Unit Com B 143E	Facility Type: Natural gas well		

Surface Owner: Private

Mineral Owner: Federal

API No. 3004524284

LOCATION OF RELEASE

Uni M	t Letter	Section 25	Township 29N	Range 12W	Feet from the 1,105	North/South Line South	Feet from the 1,150	East/West Line West	County: San Juan
					, í				

Latitude___36.69341______Longitude__108.05567______

NATURE OF RELEASE

Type of Release: none	Volume of Release: N/A	Volume Recovered: N/A				
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: Date and Hour of Discovery:					
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 Wa	tercourse.				
🗌 Yes 🖾 No						
If a Watercourse was Impacted, Describe Fully.*	<u> </u>					
n a matereouise was impacted, Deserver rung.						
			i			
Describe Cause of Problem and Remedial Action Taken.* Sampling of the	e soil beneath the BGT was done dur	ng removal to ensure no soil impacts t	from			
the BGT. Soil analysis resulted in TPH, BTEX and chlorides below stand			nd			
near the BGT, with elevated TPH levels likely from a leaking flow line. E	Excavation and removal of impacted	oils will be done and a groundwater				
monitor well will be installed.						
Describe Area Affected and Cleanup Action Taken.* BGT was removed a	nd the area underneath the BGT was	sampled. The excavated area was				
backfilled and compacted and the LPT was partially placed over the site.						
I hereby certify that the information given above is true and complete to the	he best of my knowledge and underst	and that pursuant to NMOCD rules an	d			
regulations all operators are required to report and/or file certain release n						
public health or the environment. The acceptance of a C-141 report by the						
should their operations have failed to adequately investigate and remediate	e contamination that pose a threat to	round water, surface water, human he	ealth			
or the environment. In addition, NMOCD acceptance of a C-141 report de	bes not relieve the operator of respon	sibility for compliance with any other				
federal, state, or local laws and/or regulations.						
	<u>OIL CONSER</u>	ATION DIVISION				
Simon Oll Nace						
Signature: Jeff Pearl						
Printed Name: Jeff Peace	Approved by Environmental Special	st:				
			·			
Title: Field Environmental Advisor	Approval Date:	Expiration Date:				
	· · · · · · · · · · · · · · · · · · ·					
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached				
Date: December 5, 2013 Phone: 505-326-9479						

* Attach Additional Sheets If Necessary

BP BLAGG ENGINE ERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 APr. #3004524284 CULINT: P.O. BOX 87, BLOOMFIELD, NM 87413 TANK 00A FIELD REPORT: Intervention of the contract			
The box of cost status in the cost of cost in the cost of cost of cost of	BP	•	API# 3004524284
PICELD KCPUKT: PAGE # d PAGE # d			
GLUADUNIT M SEC. 25 TWP 29N RNO. 12W MM NM CNTY SJ ST NM LIA LAPOTAGE 1.1055 /1.160/W SW/SW LEASE # PROD. FORMATION. CHA CONTRACTOR LIANCE PROD. FORMATION. CHA CONTRACTOR LIANCE SPECIALISTICS SPECIALISTIS	FIELD REPORT:	(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:	PAGE #: of
141-144700TAGE: 1.105'S / 1.150'W SWISW LEASE TYPE: FEDERAL (STATE (FEE) INDIAN 141-144700TAGE: 1.105'S / 1.150'W PROD. FORMATION: CHA. CONTRACTOR: MBF - B. SCHUMAN ENVIOLMENTAL SPECIALISTS: NJV REFERENCE POINT: WELL HEAD (MH) OPS COORD: 36.69334 X 108.0560'D GLEEV: 5.462' 1) 95 BGT (SW/SB) OPS COORD: 36.69341 X 108.05567'D DBF MC6DERMORTOXIM: 104', N79E'D 2) GPS COORD: OPS COORD: DBF MC6DERMORTOXIM: 104', N79E'D DBF MC6DERMORTOXIM: 104', N79E'D 3) GPS COORD: DBF MC1000 (SEGMARTING) DBF MC6DERMORTOXIM: 104', N79E'D DBF MC6DERMORTOXIM: 104', N79E'D 3) GPS COORD: DBF MC1000 (CI) MARK SEGMARTING DBF MC6DERMORTOXIM: 104', N79E'D 3) SAMPLE D TH1 (D 15'S) SAMPLE D DH1 (D 5'S) SAMPLE D NA 337'T 3) SAMPLE D TH1 (D 11') SAMPLE D DH1 (D 15'S) SAMPLE D NA 337'T 3) SAMPLE D TH1 (D 11') SAMPLE D SAMPLE D NA 337'T 3) SAMPLE D TH1 (D 11') SAMPLE D'S SET SAMPLE D NA 337'T SOLIC DOER CARPER SAME OTAXING ON SET OOLOW CARPARE AND SET SAMPLE D NA	SITE INFORMATION	: SITE NAME: GCU COM B #143E	DATE STARTED: 09/09/13
LEASE # PEOD FORMATION CHA CONTRACTOR MER. B. SCHLMANN PEOD FORMATION CHA CONTRACTOR MER. B. SCHLMANN PEOD FORMATION CHA NUV REFERENCE POINT: Well HEAD (WH) GPS COORD: 36.69336 X 108.05600 GLEUX: 5.462 1) GPS COORD: 36.69336 X 108.056600 GLEUX: 5.462 2) GPS COORD: 05%COERD: 05%COERD: 05%COERD: 3) GPS COORD: 05%COERD: 05%COERD: 05%COERD: 3) GPS COORD: 05%COERD: 05%COERD: 05%COERD: 3) GPS COORD: 05%COERD: 05%COERD: 05%COERD: 05%COERD: 3) GPS COORD: 05%COERD: 05%COERD: 05%COERD: 05%COERD: 3) GMR:ED TH1 @ 5.5' WARE DR @ 059013 Serence 0330 Uservises 80158/80218/300.0(CI) 400 3) SAMPLE DE TH1 @ 5.5' WARE SR @ 099013 Serence 0331 Uservises 80158/80218/300.0(CI) 335 30 DESCOORD: DESCOORD: DSAMPLE DE DESCOORD: DSAMPLE DE DSAMPLE DE DSAMPLE DE	QUAD/UNIT: M SEC: 25 TWP:	29N RNG: 12W PM: NM CNTY: SJ ST: NM	DATE FINISHED:
LEASE # PROD. FORMATION. CHA CONTRACTOR MELE B. SCHMANN PECALISTS* NJV REFERENCE POINT: WIELL HEAD (WH), GPS COORD: 36,69336 X 108,05560 CIELEX: 5,462 1) 95 BGT (SW/SB) GPS COORD: 36,69336 X 108,05560 CIELEX: 5,462 2) GPS COORD: 05700000000000000000000000000000000000	1/4 -1/4/FOOTAGE: 1,105'S / 1,150	W SW/SW LEASE TYPE: FEDERAL / STATE / FEE / INDIAN	
1) 95 BGT (SW/SB) GPS COORD.: 36.69341 X 108.05567 USTWACEBEAMD FROM WH. 2) GPS COORD.: OSTWACEBEAMD FROM WH. 3) GPS COORD.: OSTWACEBEAMD FROM WH. 4) GPS COORD.: OSTWACEBEAMD FROM WH. 4) GPS COORD.: OSTWACEBEAMD FROM WH. 5) GPS COORD.: OSTWACEBEAMD FROM WH. 4) GPS COORD.: OSTWACEBEAMD FROM WH. 5) SAMPLE ID SPC.TB @ 5.5' (55) Sware and 09/09/13 Sware two 0935 Leaverse 8015B/8021B/300.0(C) 400 3) SAMPLE ID TH 1 @ 11' Sware and 09/09/13 Sware two 0931 Jeaverse 8015B/8021B/300.0(C) 337 4) SAMPLE ID TH 1 @ 11' Sware and 09/09/13 Sware two 0931 Jeaverse 8015B/8021B/300.0(C) 335 SOL COLOR DABK YELLOWSH DRANGE TO OLIVE GRAY. OSTWACEBEAMD FROM WH. OSTWACEBEAMD FROM WH. SOL SOL COLOR DABK YELLOWSH DRANGE TO OLIVE GRAY. SOL TY CLAY / CLA		PROD. FORMATION: CHA CONTRACTOR: MBF - B. SCHUMAN	
2) GPS COORD: DBTANCEDBEARING FROM WH: 3) GPS COORD: DBTANCEDBEARING FROM WH: 4) GPS COORD: DBTANCEDBEARING FROM WH: 5) SAMPLING DATA: CPAN OF CUSTOP RECORDS;# 00 FLAB USED DBTANCEDBEARING FROM WH: 1) SAMPLING DATA: CPAN OF CUSTOP RECORDS;# 00 FLAB USED DBTANCEDBEARING FROM WH: 2) SAMPLING DTH (0 5.5': SWREDKE 09/09/13 SwRETKE 0930 Jawurse 8015B/8021B/300.0(CI) 40 2) SAMPLE ID TH (0 7.5': SWREDKE 09/09/13 SwRETKE 0933 JUB JAWURSE 8015B/8021B/300.0(CI) 355 SOIL COLOR DARK YELLOWISH ORANGE TO OLIVE GRAY 09/09/13 SwRETKE 0953 JUB JAWURSE 8015B/8021B/300.0(CI) 355 SOIL COLOR DARK YELLOWISH ORANGE TO OLIVE GRAY DISCUCARTING MARKED MPACTED WHING MARKED CONSTANTING SUBJAWERT TO CLAY / GRAVEL / OTHER DISCUCARTING MARKED MPACTED WHIN SWILLAW / GRAVEL / OTHER DISCUCARTING MARKED MPACTED WHING / MARKED SUBJAWERT / MARKED			
3) GPS COORD: DISTANCEREAMNG FROM WH: 4) CPS COORD: DISTANCEREAMNG FROM WH: DISTANCEREAMNG FROM WH: 5) SAMPLE ID: 5 PC-TB @ 5.5' (95) DISTANCEREAMNG FROM WH: DISTANCEREAMNG FROM WH: 1) SAMPLE ID: 5 PC-TB @ 5.5' (95) DISTANCEREAMNG FROM WH: DISTANCEREAMNG FROM WH: 2) SAMPLE ID: TH 1 @ 5.5' DISTANCEREAMNG FROM WH: DISTANCEREAMNG FROM WH: 3) SAMPLE ID: TH 1 @ 1.' DISTANCEREAMNG FROM WH: DISTANCEREAMNG FROM WH: 4) SAMPLE ID: TH 1 @ 1.' DISTANCEREAMNG FROM WH: DISTANCEREAMNG FROM WH: 50 COLOR DARK YELLOWISH ORANGE TO OLIVE GRAV DISTANCEREM SHOW WH: DISTANCEREM SHOW WH: 50 COLOR DARK YELLOWISH ORANGE TO OLIVE GRAV DISTANCEREM SHOW OLIVERS DISTANCEREM SHOW WH: 50 COLOR DARK YELLOWISH ORANGE TO OLIVE GRAV DISTANCEREM SHAWN OF COMMANDE DISTANCEREM SHAWN OF COMMANDE 50 COLOR DARK YELLOWISH ORANGE TO OLIVE GRAV OLIVERS DISTANCEREM SHAWN OF COMMANDE DISTANCEREM SHAWN OF COMMANDE 50 COLOR DETECTED <t< td=""><td>1) 95 BGT (SW/SB)</td><td> GPS COORD.: 36.69341 X 108.05567 DISTANCE/BE</td><td>EARING FROM W.H.: 104', N79E</td></t<>	1) 95 BGT (SW/SB)	GPS COORD.: 36.69341 X 108.05567 DISTANCE/BE	EARING FROM W.H.: 104', N79E
4) GPS COORD: DISTANCESPEARAGE/FROM WH: 3) SAMPLE ID: 5PC/TB @ 5.5 (95) sample ID: HALL R04M of NAME 1) SAMPLE ID: TH1 @ 5.5' sample ID: 09/09/13 sample ID: HALL R04M of NAME 2) SAMPLE ID: TH1 @ 5.5' sample ID: 09/09/13 sample ID: NAME of NAME 09/15/10.0.0(CI) 400 3) SAMPLE ID: TH1 @ 11' sample ID: 109/09/13 sample ID: NAME of NAME 09/15/13 sample ID: NAME of NAME 337 4) sample ID: TH1 @ 11' sample TO OLIVE (BALY VARITURING ID: Solit TYPE: Sample TO OLIVE (SAME OF NAME Sample TYPE (SAME OF NAME OF NAME Sample TYPE (SAME OF NAME OF NAME OF NAME OF NAME PARTY (CLASY INFAULTS) Sample TYPE (SAME OF NAME OF	2)	GPS COORD.: DISTANCE/BE	ARING FROM W.H.:
SAMPLING DATA: OWN OF CUSTOM RECORDS) # OR LAB USED: HALL Record 1) SAMPLE ID: 5 PC-TB @ 5.5' (95) SWREDME 09/09/13 SWRETME 0930. DEAWURSE 8015B/8021B/300.0(CI) 400 2) SAMPLE ID TH1 @ 7.5' SWREDME 09/09/13 SWRETME 0931. SWRETME 0932. DEAWURSE 8015B/8021B/300.0(CI) 400 3) SAMPLE ID: TH1 @ 11' SWREDME 09/09/13. SWRETME 0953. DEAWURSE NA 337. 4) SAMPLE ID: TH1 @ 11' SWREDME 09/09/13. SWRETME 0953. DEAWURSE NA 337. SOIL COLOR DARK YELLOWISH ORANGE TO OLIVE GRAY SWRETME 0953. DEAWURSE. NA 355. SOIL COLOR DARK YELLOWISH ORANGE TO OLIVE GRAY SWRETME ORSE SWRETME ORSE DEAWORSENE NA 355. SOIL COLOR DARK YELLOWISH ORANGE TO OLIVE GRAY SWRETME ORSE SWRETME ORSE DEAWORSENE NA SWRETME ORSE DEAWORSENE DEAWORSEN	3)	GPS COORD.: DISTANCE/BE	ARING FROM W.H.:
SAMPLEING DATA: [PANDPLECOMPSIZE] [PAN	4)	GPS COORD.: DISTANCE/BE	
1) SAMPLE ID: 5PC-TB (Ø 5.5' (95) SWREETNE 09/09/13 SWREETNE 0930 US#WRISS 418.1/8015B/8021B/300.0(Cl) NA 2) SAMPLE ID: TH 1 (Ø 7.5' SWREETNE 09/09/13 SWREETNE 0930 US#WRISS 8015B/8021B/300.0(Cl) 400 3) SAMPLE ID: TH 1 (Ø 7.5' SWREETNE 09/09/13 SWREETNE 09/00/13 SWREETNE 0	SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	READING
3) SAMPLE ID: TH1@7.5' SMREDITE 09/09/13 SMRETNE 0941 UM-MUISS NA 337 4) SAMPLE ID: TH1@11' SMREDITE 09/09/13 SMRETNE 0953 UM-MUISS NA 337 4) SAMPLE ID: TH1@11' SMREDITE 09/09/13 SMRETNE 0953 UM-MUISS 0015/08.021B/300.0(C) 355 SOIL COLOR DESCNLOREST SOIL TYPE: SAMD/SULTY SAND SULT / SILT Y SULT / SILT Y CLAY / CLAY / CLAY / CLAY / GRAVEL / OTHER SOIL COLOR DARK YELLOWISH ORANGE TO OLIVE GRAY PARIOTY (LWS) NORMASTIC / SUBTY MASTER/ HELLY PARSTIC Consistence TW, NON COLESIVE SOLS) COOSE / FIRM / DENSE / VERY DENSE PARIOTY (LWS) NORMASTIC / SUBTY / SUBY / SUBTY / SUBTY / SUBY / SUBTY / SUBY / SUBTY / SUBY / SUBTY /	1) SAMPLE ID: 5 PC-TB @ 5.5'	95) SAMPLE DATE: 09/09/13 SAMPLE TIME: 0930 LAB ANALYSIS: 418.1/	8015B/8021B/300.0(CI) NA
4) SAMPLE ID: TH 1 @ 11' SAMPLE ID: TH 1 @ 11' SAMPLE ID: B015D/8021B/300.0(C) 355 SOIL DESCRIPTION: SOIL TYPE: SAND/SILTY SAND SILT/SILTY CLAY / CLAY / CLAY / CLAY / CLAY / CRAVEL / OTHER SOIL COLOR: DARK YELLOWISH DRANGE TO OLIVE GRAY PARK YELLOWISH DRANGE TO OLIVE GRAY PARK YELLOWISH DRANGE TO OLIVE GRAY CONSISTENCY INON CONSISTING SUBJECT SOUTH CONSIST INTO CONSTAINING DESKEY LOWISH RATURATED / SUBRE SATURATED PLASTICTY (LAY, ICAY / CLAY / CRAVEL / OTHERS SAMPLE TYPE: GRAB / COMPOSITE / # O FF / S 5 DISCOLORATIONSTAINING DESKEYLED SEX / SUBJECT / COMPOSITE / # O F / S 5 DISCOLORATIONSTAINING DESKEYLED / WETS ATURATED / SUBRE SATURATED DENSTY (COHESWE CLAYS a SILTS). SOFT / FIRM STF / VERY STFF / HARD DISCOLORATIONSTAINING DESKEYLED / WETS / SUBJECOVERD DO NOT APPEAR TO RESULT FROM BGT LOSS INTEGRITY. BUT REVEX SET / COMPOSITE / # O F / S DISCOLORATIONSTAINING DESKEYLED / WESS NOT APPEAR TO RESULT FROM BGT LOSS INTEGRITY. BUT RETAINING WETNESS: Y / M APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED (YES) / NO EXPLANATION : DISCOLORATION (CLUB GRAY, CLAREDU // CLAY / GRAY); RETAINING WETNESS SOIL IMPACT DIMENSION ESTIMATION : MAX / T / R R. X / R / R / R RETAINING WALLE SOIL IMPACT	2) SAMPLE ID:TH 1 @ 5.5'	SAMPLE DATE: 09/09/13 SAMPLE TIME: 0935 LAB ANALYSIS: 801	15B/8021B/300.0(Cl) 400
SOIL DESCRIPTION: Soil TYPE: EAND ZELTY SAND Sult / S	3) SAMPLE ID:TH 1 @ 7.5'	SAMPLE DATE: 09/09/13SAMPLE TIME: 0941 LAB ANALYSIS:	NA337
SOIL COLOR DARK YELLOWISH ORANGE TO OLIVE GRAY CORESON ALL OTHERS (MOX CORESNE) SUGATIVY CORESNE / DOR NOT APPEAR TO RESIVE (AGAIN YEASTIC / CORESNE / MEDUARASTIC / IGAN YEASTIC / IGAN Y	4) SAMPLE ID: TH 1 @ 11'	SAMPLE DATE:09/09/13 SAMPLE TIME:0953 LAB ANALYSIS:801	5B/8021B/300.0(Cl)355
SOIL COLOR DARK YELLOWISH ORANGE TO OLIVE GRAY CORESON ALL OTHERS, MON CORESSNE' BUGHTLY CORESSNE' HIGHLY CORESSNE' CORESSNE' HIGHLY CORESSNE' HIGHLY CORESSNE' HIGHLY CORESSNE' HIGHLY CORESSNE' CORESSNE' HIGHLY CORESSNE' HIG	SOIL DESCRIPTION	SOIL TYPE: SAND / SILTY SAND SILT / SILTY CLAY / CLAY / GRAVEL / OT	THER
CONSISTENCY (ION COHESIVE SOLLS): [COSE_FIREM] / DENSE / VERY DENSE MORTINGE: DRY (SUGATUY MOST TAILOR THE / VERY STIFF / HARD MORTINGE: DRY (SUGATUY MOST TAILOR PTS	SOIL COLOR: DARK YELLOWIS		
MOISTURE: DRV [SLIGHTLY MOIST / MOIST	· · · · · · · · · · · · · · · · · · ·		COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
SAMPLE TYPE: GRAB / COMPOSITE J# OF PTS. 5 DISCOLORATION/STAINING OBSERVED: VESI/ NO EXPLANATION - BETWEEN 5.5'-7.5' BELOW GRADE (DARKER SHADE OF OLIVE GRAY), CLEARED UP TO 11', BUT STILL REMAINED IMPACTED WITH SIMILAR OVM, READING. APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : VESI/ NO EXPLANATION : DISCOLORED SOIL IN NE CORNER OF WOODEN APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : VESI/ NO EXPLANATION : DISCOLORED SOIL IN NE CORNER OF WOODEN ADDITIONAL COMMENTS IMPACTS DISCOVERED DO NOT APPEAR TO RESULT FROM BGT LOSS INTEGRITY, BUT RETAINING WALL RATHER FROM PIPING FROM SEPARATOR TO BGT. SOLI MPACT DIMENSION ESTIMATION _ ft. X _ ft. X _ ft. EXCAVATION ESTIMATION (Cubic Vards) : DEPTH TO GROUNDWATER _ SEPARATOR TO BGT. SOLI MPACT DIMENSION ESTIMATION _ ft. X _ ft. X _ ft. EXCAVATION ESTIMATION (Cubic Vards) : DEPTH TO GROUNDWATER _ SEPARATOR TO BGT. SOLIMARCT DIMENSION ESTIMATION _ ft. X _ ft. X _ ft. EXCAVATION ESTIMATION (Cubic Vards) : DEPTH TO GROUNDWATER _ SEPARATOR TO BGT. SITE SKETCH VOODEN R.W. BERM _ X X X _ PBGTL			
DISCOLORATION/STAINING OBSERVED. [YES] NO EXPLANATION - BETWEEN 5.5 - 7.5' BELOW GRADE (DARKER SHADE OF OLIVE GRAY), CLEARED UP TO 11', BUT STILL REMAINED IMPACTED WITH SIMILAR OVM, READING, ANY AREAS DISPLAYATION. DISCOLORED SOIL IN NE. CORNER OF WOODEN ADDITIONAL COMMENTS: IMPACTS DISCOVERED DO NOT APPEAR TO RESULT FROM BGT LOSS INTEGRITY, BUT RETAINING WALL. RATHER FROM PIPING FROM SEPARATOR TO BGT. SOIL IMPACT DIMENSION OF DISCOVERED DO NOT APPEAR TO RESULT FROM BGT LOSS INTEGRITY, BUT RETAINING WALL. RATHER FROM PIPING FROM SEPARATOR TO BGT. SOIL IMPACT DIMENSION OF DISCOVERED DO NOT APPEAR TO RESULT FROM BGT LOSS INTEGRITY, BUT RETAINING WALL. SOIL IMPACT DIMENSION ESTIMATION: 1 ft. X _ ft. EXCAVATION ESTIMATION (Cubic Yards): DEPTH TO GROUNDWATER: SOURCE > 1,000' NEAREST SURFACE WATER: >1,000' NMOCD TPH CLOSURE STD. 100 ppm SITE SKETCH WOODEN R.W. TH1 SEPARATOR WH. BERM	· · · · · · · · · · · · · · · · · · ·		ANATION - WITHIN THI ONLY.
TO 11', BUT STILL REMAINED IMPACTED WITH SIMILAR OVM, READING. ANY AREAS DISPLATING WEINESS: YES (NO) EXPLANATION: APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: [YES]/ NO EXPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: [YES]/ NO EXPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: [YES]/ NO EXPARATION: INTESSIVE TEAM NO RATHER FROM PIPING FROM SEPARATOR TO BGT. SOIL IMPACT DIMENSION ESTIMATION: f. X Note: f. X SOIL IMPACT DIMENSION ESTIMATION: f. X MARKEST SURFACE WATER: 21,000" NOCODEN *1,000" RW PLOT PLAN MODEN RW RW TH1 SEPARATOR OMICALB EAD:= MISCELL. NOTE: BERM X × X PBGTL TB, -5.5' B.G. TO YH. B.G. TO F.D5' B.G. TO YH. B.G. TO F.D5' B.G. TO YH. B.G. YH. B.G. YH. B.G.			ADE OF OLIVE GRAY), CLEARED UP
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : [YES]' NO EXPLANATION : DISCOLORED SOIL IN NE_CORNER OF_WOODEN_ ADDITIONAL COMMENTS: IMPACTS DISCOVERED TO NOT APPEAR TO RESULT FROM BGT LOSS INTEGRITY, BUT RETAINING WALL. RATHER FROM PIPING FROM SEPARATOR TO BGT. SOIL IMPACT DIMENSION ESTIMATION : n. X n. X n. EXCAVATION ESTIMATION (Cubic Yards) : DEPTH TO GROUNDWATER:	TO 11', BUT STILL REMAINED IMPACT	ED WITH SIMILAR OVM, READING.	
ADDITIONAL COMMENTS: IMPACTS DISCOVERED DO NOT APPEAR TO RESULT FROM BGT LOSS INTEGRITY, BUT RETAINING WALL RATHER FROM PIPING FROM SEPARATOR TO BGT. SOIL IMPACT DIMENSION ESTIMATION: n. X n.			
RATHER FROM SEPARATOR TO BGT. SOLI IMPACT DIMENSION ESTIMATION: n. X n. X n. EXCAVATION ESTIMATION (Cubic Yards): DEPTH TO GROUNDWATER: <50'			
DEPTH TO GROUNDWATER: <50'		ATOR TO BGT.	
SITE SKETCH PLOT PLAN circle: attached WOODEN R.W. TH1 SEPARATOR MISCELL. NOTES WO: N15210983 PO #. PK: ZEVH01BGT2 PJ #: Z2-006Q0 Permit date(s): 06/14/10 OCD Appr. date(s): 07/18 BGT Sidewalls Visible: (Y / N BGT Sidewalls Visible: (Y / N BGT Sidewalls Visible: (Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible:			
WOODEN R.W. TH1 SEPARATOR N R.W. TH1 SEPARATOR N BERM X X X PBGTL TME 10:11 @7pm DATE 09/09/13 TO E.D5' B.G. TO WH.H. B.G. TO PROD. VH.H. B.G. TO PROD. VH.H. B.G. TO PROD. VH.H. B.G. TO PROD. VH.H. B.G. TO PROD. VINCES: BGT = BELOW-GRADE TANK, E.D. = EXCAVATION DEPRESSION, B.G. = BELOW, GRADE; B = BELOW, T.H. = TEST HOLE; -= APPROX; WH. = WELL HEAD; BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N RBGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N TB. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK, LOCATION, SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT Magnetic declination: 10° E		EAREST WATER SOURCE: <u>>1,000</u> NEAREST SURFACE WATER: <u>>1,000</u> NMO	CD TPH CLOSURE STD: 100 ppm
WOODEN R.W. TH1 SEPARATOR BERM SEPARATOR BERM SEPARATOR BERM SEPARATOR BERM SEPARATOR D MISCELL. NOTES WO: N15210983 PO #: PK: ZEVH01BGT2 PJ #: Z2-006Q0 Permit date(s): 06/14/10 OCD Appr. date(s): 06/14/10 OCD Appr. date(s): 04/22/13 Tak OVM CALIB. GAS = 100 _ppm TME _ 10:11 _@pm DATE: 09/09/13 MISCELL. NOTES WO: N15210983 PO #: PK: ZEVH01BGT2 PJ #: Z2-006Q0 Permit date(s): 06/14/10 OCD Appr. date(s): 06/14/10 OCD Appr. date(s): 04/22/13 Tak OVM CALIB. GAS = 100 _ppm TME _ 10:11 _@pm DATE: 09/09/13 NOTES: BGT = BELOW-GRADE TANK; ED. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; TH. = TEST HOLE: - = APPROX; WH = WELL HEAD; TB = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK (CATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW- SINGLE WALL; DB - DOUBLE BOTTOM; DB - DOUBLE BOTTOM.	SITE SKETCH	PLOT PLAN circle: attached	M CALIB. READ. = 53.2 ppm RF = 0.52
THI SEPARATOR IME LOI: II Carlie Use of the second			M CALIB. GAS = ppm
BERM X X X PBGTL TD E.D 5' W.H. B.G. TO F.D 5' W.H. B.G. TO PROD. TANK PROD. TANK PROD. TANK DOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; -= APPROX; W.H. = WELL HEAD; TB. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT MOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW; T.H. = TEST HOLE; -= APPROX; W.H. = WELL HEAD; TB. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW- SINGLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.			E _ 10:11 _ anypm DATE _ <u>09/09/13_</u>
TO E.D 5' W.H. B.G. TO F.D 5' B.G. TO PROD. PROD. TANK PROD. TANK TANK NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL HEAD; NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL HEAD; TB, = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.		SEPARATOR	MISCELL. NOTES
TO E.D 5' W.H. B.G. TO F.D 5' B.G. TO PROD. PROD. TANK PROD. TANK TANK NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL HEAD; NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL HEAD; TB, = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.			vo: N15210983
B.G. TO TO W.H. B.G. TO PROD. TANK E.D. - 5' B.G. TO PROD. TANK X - S.P.D. NOTES: BGT = BELOW-GRADE TANK, E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW, T.H. = TEST HOLE; ~= APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.		X X X PBGTL F	
TO E.D 5' W.H. B.G. TO PROD. TANK TO PROD. TANK X - S.P.D. BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT Magnetic declination: 10° E			PK: ZEVH01BGT2
W.H. B.G. TO PROD. TANK V/PROD. TANK CCD Appr. date(s): 04/22/13 Tank OVM = Organic Vapor Meter ID ppm = parts per million A BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N AppLicable OR NOT AVAILABLE; SW- SINGLE WALL; DW- DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM. Magnetic declination: 10° E			DJ#: Z2-006Q0
ID OCD Appr. date(s): U4/22/15 PROD. TANK OVM = prm. elarts per million A BGT Sidewalls Visible: (Y) N BGT Sidewalls Visible: Y / N A BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N BGT Sidewalls Visible: Y / N APPLICABLE OR NOT AVAILABLE; SW- SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM, DB - DOUBLE BOTTOM.			
ID ppm = parts per million A BGT Sidewalls Visible: (Y) N BGT Sidewalls Visible: Y / N ID ppm = parts per million A BGT Sidewalls Visible: (Y) N BGT Sidewalls Visible: Y / N BG	¥¥.⊓.	, 10	
X - S.P.D. BGT Sidewalls Visible: Y / N NOTES: BGT Sidewalls Visible: Y / N T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.		TANK	D ppm = parts per million
NOTES: BGT = BELOW+GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM. BGT Sidewalls Visible: Y / N			
T,B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.			
	T.B. = TANK BOTTOM; PBGTL = PREVIOUS BEL	OW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT	

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Hall Environmental Analys	sis Laborat	ory, Inc.)		Date Reported: 9/18/20	13
CLIENT: Blagg Engineering			Client Sampl	e ID: 5P	С-ТВ @ 5.5' (95)	
Project: GCU COM B #143E			Collection 1	Date: 9/9	/2013 9:30:00 AM	
Lab ID: 1309461-001	Matrix: S	Received	Date: 9/1	1/2013 9:50:00 AM		
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/16/2013 7:08:56 PM	9308
Surr: DNOP	78.9	63-147	%REC	1	9/16/2013 7:08:56 PM	9308
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/13/2013 1:43:37 PM	9285
Surr: BFB	92.7	80-120	%REC	1	9/13/2013 1:43:37 PM	9285
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	9/13/2013 1:43:37 PM	9285
Toluene	ND	0.048	mg/Kg	1	9/13/2013 1:43:37 PM	9285
Ethylbenzene	ND	0.048	mg/Kg	1	9/13/2013 1:43:37 PM	9285
Xylenes, Total	ND	0.096	mg/Kg	1	9/13/2013 1:43:37 PM	9285
Surr: 4-Bromofluorobenzene	97.3	80-120	%REC	1	9/13/2013 1:43:37 PM	9285
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	11	1.5	mg/Kg	1	9/16/2013 2:19:55 PM	9328
EPA METHOD 418.1: TPH					Analyst	: JME
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	9/16/2013	9309

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
	Е	Value above quantitation range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 1 of 8
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

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Analytical Report Lab Order 1309461

Hall Environmental Analys	sis Laborat	tory, Ir	nc.			Lab Order 1309461 Date Reported: 9/18/20	13
CLIENT: Blagg Engineering Project: GCU COM B #143E Lab ID: 1309461-002	Matrix: S	SOIL	C		Date: 9/9	11 @ 5.5' 1/2013 9:35:00 AM 1/2013 9:50:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE				·		Analys	BCN
Diesel Range Organics (DRO)	1500	100		mg/Kg	10	9/17/2013 12:42:03 PM	9308
Surr: DNOP	0	63-147	S	%REC	10	9/17/2013 12:42:03 PN	9308
EPA METHOD 8015D: GASOLINE RAI	NGE					Analysi	: NSB
Gasoline Range Organics (GRO)	500	48		mg/Kg	10	9/13/2013 12:17:39 PM	9285
Surr: BFB	284	80-120	S	%REC	10	9/13/2013 12:17:39 PN	9285
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.24		mg/Kg	10	9/13/2013 12:17:39 PM	9285
Toluene	0.55	0.48		mg/Kg	10	9/13/2013 12:17:39 PM	9285
Ethylbenzene	ND	0.48		mg/Kg	10	9/13/2013 12:17:39 PM	9285
Xylenes, Total	17	0.96		mg/Kg	10	9/13/2013 12:17:39 PM	9285
Surr: 4-Bromofluorobenzene	118	80-120		%REC	10	9/13/2013 12:17:39 PM	9285
EPA METHOD 300.0: ANIONS						Analys	: JRR
Chloride	17	7.5		mg/Kg	5	9/16/2013 2:44:45 PM	9328

Analytical Report

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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
	Ε	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 2 of 8
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analy	sis Laborat	tory, Ir	ic.		24 - 24 - 144	Date Reported: 9/18/201	3
CLIENT: Blagg Engineering			C	lient Sampl	e ID: TH	1@11'	
Project: GCU COM B #143E				Collection	Date: 9/9	/2013 9:53:00 AM	
Lab ID: 1309461-003	Matrix: S	SOIL		Received I	Date: 9/1	1/2013 9:50:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	1800	100		mg/Kg	10	9/17/2013 1:13:42 PM	9308
Surr: DNOP	0	63-147	S	%REC	10	9/17/2013 1:13:42 PM	9308
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	2100	47		mg/Kg	10	9/13/2013 12:46:18 PM	9285
Surr: BFB	742	80-120	S	%REC	10	9/13/2013 12:46:18 PM	9285
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.67	0.47		mg/Kg	10	9/13/2013 12:46:18 PM	9285
Toluene	29	0.47		mg/Kg	10	9/13/2013 12:46:18 PM	9285
Ethylbenzene	11	0.47		mg/Kg	10	9/13/2013 12:46:18 PM	9285
Xylenes, Total	210	9.5		mg/Kg	100	9/16/2013 3:15:15 PM	9285
Surr: 4-Bromofluorobenzene	155	80-120	S	%REC	10	9/13/2013 12:46:18 PM	9285
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	1200	30		mg/Kg	20	9/16/2013 3:21:58 PM	9328

Analytical Report Lab Order 1309461

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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
	Ε	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 3 of 8
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU COM B #143E

Sample ID MB-9328	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 9328	RunNo: 13415		
Prep Date: 9/16/2013	Analysis Date: 9/16/2013	SeqNo: 381618	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID LCS-9328	SampType: LCS	TestCode: EPA Method	300.0: Anions	· · · · · · · · · · · · · · · · · · ·
Sample ID LCS-9328 Client ID: LCSS	SampType: LCS Batch ID: 9328	TestCode: EPA Method RunNo: 13415	300.0: Anions	
Client ID: LCSS			300.0: Anions Units: mg/Kg	
Client ID: LCSS	Batch ID: 9328 Analysis Date: 9/16/2013	RunNo: 13415		RPDLimit Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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WO#: 1309461

18-Sep-13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU COM B #143E

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Sample ID MB-9309	SampType: MBLK	TestCode: EPA Method	418.1: TPH	
Client ID: PBS	Batch ID: 9309	RunNo: 13380		
Prep Date: 9/13/2013	Analysis Date: 9/16/2013	SeqNo: 380738	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	ND 20			
Sample ID LCS-9309	SampType: LCS	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS	Batch ID: 9309	RunNo: 13380		
Prep Date: 9/13/2013	Analysis Date: 9/16/2013	SeqNo: 380739	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	84 20 100.0	0 83.5 80	120	
Sample ID LCSD-9309	SampType: LCSD	TestCode: EPA Method	418.1: TPH	
Client ID: LCSS02	Batch ID: 9309	RunNo: 13380		
Prep Date: 9/13/2013	Analysis Date: 9/16/2013	SeqNo: 380740	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Petroleum Hydrocarbons, TR	93 20 100.0	0 93.3 80	120 11.1	20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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18-Sep-13

WO#: 1309461

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client:Blagg EngineeringProject:GCU COM B #143E

Sample ID LCS-9308	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID: LCSS	Batch	1D: 93	08	F	RunNo: 1	3385				
Prep Date: 9/13/2013	Analysis D	ate: 9/	16/2013	S	eqNo: 3	B1454	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.8	77.1	128			
Surr: DNOP	4.9		5.000		97.4	. 63	147			
Sample ID MB-9308	Samp⊺	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID: PBS	Batch	ID: 93	08	F	RunNo: 1	3385				
Prep Date: 9/13/2013	Analysis D	ate: 9/	16/2013	S	eqNo: 3	81455	Units: mg/H	(g		
1 10p Dute: 3/10/2013	· · · · · · · · · · · · · · · · · · ·									
· · · · · · · · · · · · · · · · · · ·	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)		PQL 10	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

WO#: 1309461

18-Sep-13



QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Blagg Engineering **Client: Project:** GCU COM B #143E

.

Sample ID MB-9285	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: PBS	Batch	n ID: 92	85	F	RunNo: 1	3373				
Prep Date: 9/12/2013	Analysis D	ate: 9 /	13/2013	5	SeqNo: 3	80265	Units: mg/H	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 920	5.0	1000		92.4	80	120			
					02.1		120			
Sample ID LCS-9285		ype: LC		Tes			8015D: Gase	oline Rang	e	
Sample ID LCS-9285 Client ID: LCSS	SampT	ype: LC	S			PA Method		oline Rang	e	
• •	SampT	n ID: 92	S 85	F	tCode: El	PA Method 3373		Ū	e	
Client ID: LCSS	SampT Batcl	n ID: 92	S 85 13/2013	F	tCode: El RunNo: 1	PA Method 3373	8015D: Gaso	Ū	e RPDLimit	Qual
Client ID: LCSS Prep Date: 9/12/2013	SampT Batch Analysis D	n ID: 92 Date: 9/	S 85 13/2013	F	tCode: El RunNo: 1 SeqNo: 3	PA Method 3373 80266	8015D: Gaso Units: mg/P	(g		Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- E Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Р Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

WO#: 1309461

18-Sep-13

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QC SUMMARY REPORT

Hall	Envir	onmenta	l Anal	ysis	Labor	atory,	Inc.

Client:Blagg EngineeringProject:GCU COM B #143E

				_						
Sample ID MB-9285	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batcl	n ID: 92	85	F	RunNo: 1	3373				
Prep Date: 9/12/2013	Analysis D)ate: 9 /	13/2013	S	SeqNo: 3	80319	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
X I T-1-1	ND	0.10								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0	0.10	1.000		103	80	120			
•	1.0	ype: LC					120 8021B: Volat	tiles		. <u> </u>
Surr: 4-Bromofluorobenzene	1.0 Samp1		s	Tes		PA Method		tiles	<u></u>	. <u></u>
Surr: 4-Bromofluorobenzene Sample ID LCS-9285	1.0 Samp1	ype: LC	 S 85	Tes	tCode: El	PA Method 3373				<u>.</u>
Surr: 4-Bromofluorobenzene Sample ID LCS-9285 Client ID: LCSS	1.0 SampT Batcl	ype: LC	S 85 13/2013	Tes	tCode: EF RunNo: 1:	PA Method 3373	8021B: Volat		RPDLimit	Qual
Surr: 4-Bromofluorobenzene Sample ID LCS-9285 Client ID: LCSS Prep Date: 9/12/2013	1.0 SampT Batcl Analysis I	ype: LC 1 ID: 92 Date: 9/	S 85 13/2013	Tes F S	tCode: EF RunNo: 1; SeqNo: 31	PA Method 3373 80321	8021B: Volat Units: mg/M	(g	RPDLimit	Qual
Surr: 4-Bromofluorobenzene Sample ID LCS-9285 Client ID: LCSS Prep Date: 9/12/2013 Analyte	1.0 SampT Batcl Anatysis D Result	Type: LC n ID: 92 Date: 9/ PQL	S 85 13/2013 SPK value	Tes F S SPK Ref Val 0	tCode: El RunNo: 1; SeqNo: 3; %REC	PA Method 3373 80321 LowLimit	8021B: Volat Units: mg/K HighLimit	(g	RPDLimit	Qual
Surr: 4-Bromofluorobenzene Sample ID LCS-9285 Client ID: LCSS Prep Date: 9/12/2013 Analyte Benzene	1.0 SampT Batcl Analysis E Result 0.99	ype: LC ID: 92 Date: 9/ PQL 0.050	S 85 13/2013 SPK value 1.000	Tes F S SPK Ref Val 0	tCode: EF RunNo: 1; SeqNo: 3 %REC 99.4	PA Method 3373 80321 LowLimit 80	8021B: Volat Units: mg/M HighLimit 120	(g	RPDLimit	Qual
Surr: 4-Bromofluorobenzene Sample ID LCS-9285 Client ID: LCSS Prep Date: 9/12/2013 Analyte Benzene Toluene	1.0 SampT Batcl Analysis E <u>Result</u> 0.99 0.99	Type: LC n ID: 92 Date: 9/ PQL 0.050 0.050	S 85 13/2013 SPK value 1.000 1.000	Tes F SPK Ref Val 0 0 0 0	tCode: EF RunNo: 1; SeqNo: 3; %REC 99.4 99.2	PA Method 3373 80321 LowLimit 80 80	8021B: Volat Units: mg/H HighLimit 120 120	(g	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

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1309461

WO#:

18-Sep-13

C	hain-o	of-Cus	tody Record	I um-Arouna	ime:					L	AL		E		<i>i</i> te	20	a Ri i	ME	a.	га	6
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	🗌 Rush _													R/			
				Project Name						_					nme						
Mailing A	ddress:	P.O. BO	X 87	G	CU Com B #	143E		49	01 H	lawk								3710	9		
		BLOOM	FIELD, NM 87413	Project #:				Te	I. 50)5-3 [,]	45-3	975		Fax	505	-345	-410)7			
Phone #:		(505) 63	2-1199	1				i shina Nga i k	145 (C. 44) 145 (C. 44) 145 (C. 44)		89, 39 () 1	2 10 -	Anal	lýsis	s Re	que	st.		ea E		
email or F	ax#:			Project Manag	jer:				MV.			ſ									
QA/QC Pa	-		Level 4 (Full Validation)		NELSON VE	ELEZ	(8021B)	only) -	/ONWL/			s)		04,50	PCB's			er - 300.1)			
Accreditat				Sampler:	NELSON VE	ELEZ GNV	1	Gas		(T)	F	SIM		[²	082			wat			^m
	.	D Other		On Ice:	X Yes			ΓPH	0/0	118.	504	3270		S S	s / 8		3	0.0			e sa
🗇 EDD (Гуре)		· · · · · · · · · · · · · · · · · · ·	Sample Temp	érature: 13			+ 	(GRC	pol v	po	ъ.	etals	Ž	cide	বি	N-	ii - 3(le	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO 13094401	BTEX + -MTB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	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 - 300.0 / water		Grab sample	5 pt. composite sample
9/9/13	0930	SOIL	5PC-TB @ 5.5' (95)	4 oz 2	Cool	-cul	V		۷	V								V			V
																					\neg
9/9/13	0935	SOIL	TH1 @ 5.5'	4 oz 1	Cool	-202	V		۷									V		۷	\neg
9/9/13	0953	SOIL	TH1 @ 11'	4 oz 1	Cool	-703	۷		۷									۷		۷	
<u> </u>															ļ						\square
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Date: /	Time:	Relinquista	ed phi:	Received by:		Date Time	Rer	narks	<u>.</u>		<u> </u>		L		L	L					
9/10/13	1217		en VJ	Christe	hales	9/10/13 1217	Bt	LL DH ff Pea	RECT					Form	ninat	~~ `	164 0	7401			
Date:	Time:	Relinquishe	ed by:	Received by:	ng/11	Date Time	1	ork O										7401 <u>ZEVH</u>		<u>GT2</u>	

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ANALYSIS LABORATORY

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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 Numbe	er: 1309461		RcptNo: 1	
Received by/date: AC= 0	9111113				
Logged By: Anne Thorne	9/11/2013 9:50:00 AI	N	Arme Arm		
Completed By: Anne Thorne	9/12/2013		anne Hom		
Reviewed By:	Adin 12				
Chain of Custody	09112			<u></u>	
1. Custody seals intact on sample t	oottles?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Log In					
4. Was an attempt made to cool th	e samples?	Yes 🗹	No 🗔	NA 🗔	
5. Were all samples received at a t	emperature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌	
6. Sample(s) in proper container(s)	?	Yes 🔽	No 🗌		
7. Sufficient sample volume for indi	cated test(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and O	NG) properly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottle	is?	Yes 🗌	No 🗹	NA 🗌	
10.VOA vials have zero headspace	?	Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sample containers rec	eived broken?	Yes	No 🗹	# of preserved	
12. Does paperwork match bottle lab (Note discrepancies on chain of		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >1	2 unless noted)
13. Are matrices correctly identified	on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were red	quested?	Yes 🗹	No 🗔		
15. Were all holding times able to be (If no, notify customer for authori		Yes 🗹	No 🗌	Checked by:	
Special Handling (if applicab	ble)				

16.1	Was client notified of all d	liscrepancles with this order?	Yes 🗌] No 🗌	NA 🗹
	Person Notified:		Date	- Vite	
	By Whom:		Via: 🗌 eMail	🗌 Phone 🗌 Fax	
	Regarding:				
	Client Instructions:				

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
L	· · · · · · · · · · · · · · · · · · ·					
14	1 2	Good	Yes			-
11	1.5	Guuu	105			
		· · · · · · · · · · · · · · · · · · ·				

Page 1 of 1

Bp PRODUCTION AMERICA COMPANY NEGOS YONLUMIT GOM B MAE API 300452420 ease pree 1108 FSL **1150** F 100 (M) SEC 25 729N R12R an Juan Coupty **CLEV** 到62 AT 191 34 36 . 544" long 108° 19.296" Previous 95 bbl BGT Position (tank ID: A)

BP AMERICA PRODUCTION COMPANY SAN JUAN BASIN, NORTHWEST NEW MEXICO

BELOW-GRADE TANK CLOSURE PLAN

<u>Gallegos Canyon Unit Com B 143E</u> <u>API No. 3004524284</u> <u>Unit Letter M, Section 25, T29N, R12W</u>

RCVD DEC 6'13 OIL CONS. DIV. DIST. 3

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

General Closure Plan

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

No notice was made due to misunderstanding of the notice requirements. BP did not think notice was necessary if BGT replaced with LPT, but realizes notice is required for any BGT closure. Closure notices will be made for all BGT closures from this point forward.

- 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:
 - BP Crouch Mesa Landfarm, Permit NM-02-003 (Solids) a.
 - b. JFJ Landfarm, Permit NM-01-010(B) (Solids and Sludge)
 - Basin Disposal, Permit NM-01-0005 (Liquids) c.
 - Envirotech Inc Soil Remediation Facility, Permit NM-01-0011 (Solids and d. 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)
 - BP Operated GCU 259 SWD, API 30-045-20006 (Liquids) g.
 - BP Operated GCU 306 SWD, API 30-045-24286 (Liquids) h.
 - BP Operated GCU 307 SWD, API 30-045-24248 (Liquids) i.
 - BP Operated GCU 328 SWD, API 30-045-24735 (Liquids) j.
 - 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.

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

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

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

All equipment associated with the BGT has been removed.

BP shall test the soils beneath the BGT to determine whether a release has occurred. 6. 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
		(mg/Kg)	results
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	ND
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	ND
TPH	US EPA Method SW-846 418.1	100	ND
Chlorides	US EPA Method 300.0 or 4500B	250 or background	11

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

Soil under the BGT was sampled and TPH, BTEX and chloride levels were below the stated limits. However, a test hole dug near the BGT showed elevated TPH, possibly due to a leaking flow line. Excavation of the impacted soils will be done and a groundwater monitoring well will be installed. Sampling data is attached.

- 7. 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 occurred near the BGT. BP will remove the impacted soil and install a groundwater monitoring well.
- 9. If the sampling demonstrates that a release has not occurred or that any release does not exceed the concentrations specified above, then BP shall backfill the excavation, with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover, re-contour and re-vegetate the location. The location will be reclaimed if it is not with in the active process area

The area under the BGT was backfilled with clean soil. It is still within the active area and is partially covered by the LPT.

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 under the BGT is partially covered by the LPT. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

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

The area under the BGT is partially covered by the LPT. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

12. BP shall seed the disturbed area the first growing season after closure of the BGT. Seeding will be accomplished by drilling on the contour whenever practical or by other division-approved methods. Vegetative cover will be, at a minimum, 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation), consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintenance of that

cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.

The area under the BGT is partially covered by the LPT. This area will be reclaimed when the well is plugged and abandoned as part of final reclamation.

13. BP shall seed, plant and re-seed pursuant to Paragraph (3) of Subsection 1 of 19.15.17.13 NMAC, until the location successfully achieves the required vegetative cover.

BP will seed the area when 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.

BP will notify NMOCD when re-vegetation is successful.

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

Certification section of C-144 has been completed.