

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

AUG 10 2015

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: GCU 192E		Facility Type: Natural gas well	
Surface Owner: Tribal		Mineral Owner: Tribal	
		API No. 3004525172	

LOCATION OF RELEASE

Unit Letter A	Section 30	Township 28N	Range 12W	Feet from the 800	North/South Line North	Feet from the 1,110	East/West Line East	County: San Juan
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Latitude 36.63829 Longitude 108.14785

NATURE OF RELEASE

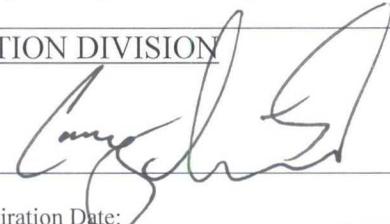
Type of Release: condensate/oil	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: April 14, 2015; 1:45 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* During construction operations to replace a single walled/single bottomed below grade tank (BGT) impacted soil was discovered under the tank. Visual observation showed evidence of a release and the lab report of soil analysis showed TPH of 1,580 ppm by Method 8015D, with DRO of 1,200 ppm and GRO of 380 ppm. The DRO and GRO each exceed the BGT TPH limit of 100 ppm. Analysis results are attached.

Describe Area Affected and Cleanup Action Taken.* Sampling results indicated a historical release occurred below the BGT. Impacted soil was excavated and transported to a landfarm for treatment. Excavation continued until remaining soil samples were below 100 ppm TPH, which is the cleanup standard for this site. Approximately 90 cubic yards of impacted soil were taken to the landfarm for treatment and remediation was complete on April 29, 2015. The excavated area was backfilled and compacted and is still within the active well area. Attached are sampling data, a site map showing the outline of the excavated area, and a C-138 report from the landfarm.

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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: <u>8/12/15</u>	Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: July 31, 2015	Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

#NCS 1512029802

BP America: GCU 192E
(A) Sec 30 – T28N – R12W
API: 30-045-25172
San Juan County, New Mexico

Summary Record of Impact Remediation

April 14, 2015 Soils impacted with hydrocarbons encountered during upgrade of the 95 barrel BGT. Laboratory testing of soils immediately below the BGT determined the total petroleum hydrocarbon (TPH) content at 1,580 mg/Kg by U.S. EPA Method 8015B. Chlorides were tested at less than 30 mg/Kg and total BTEX was reported at 46.9 mg/Kg, both well below NMOCD closure standards. The BGT was situated within a dense bedrock sandstone beginning at 2 feet below grade.

The site NMOCD/BLM closure standard was determined at 100 ppm TPH based on:

- Horizontal Distance to dry arroyo 725 feet (10 points)
- Nearest Water Well > 1,000 feet (0 points)
- Depth to Groundwater Between 50 - 100 feet (10 points)

April 28, 2015 Work crew initiates excavation of site hydrocarbon impacts. The sandstone that surrounded the BGT was excavated to a size of 18' x 18' x 9' deep. No discoloration or hydrocarbon odor was present on the base of sidewalls. A 4-point sidewall composite (depth between 4' – 8') field tested OVM at 6.0 ppm, and a 5-point base sample field tested OVM at 12.0 ppm. These samples were submitted to Hall Environmental Labs for testing of TPH, BTEX and Chlorides.

April 29, 2015 Individual sidewall composite samples were collected pursuant to the request of NMOCD (Aztec District Office). These samples were submitted to Hall Environmental Labs for testing of TPH, BTEX and Chlorides.

Laboratory test results for the BGT remedial excavation were as follows:

Sample ID	Sample Date	Map ID	TPH 8015B (mg/Kg)	Total BTEX (mg/Kg)	Chlorides (mg/Kg)
4-Point Sidewalls 4' – 8'	4/28/2015	1	ND	ND	ND
5-Point Base @ 9'	4/28/2015	2	ND	ND	ND
West Sidewall 3-Point 4'-8'	4/29/2015	3	ND	ND	ND
North Sidewall 3-Point 4'-8'	4/29/2015	4	16	ND	ND
East Sidewall 3-Point 4'-8'	4/29/2015	5	ND	ND	33
South Sidewall 3-Point 4'-8'	4/29/2015	6	ND	ND	ND

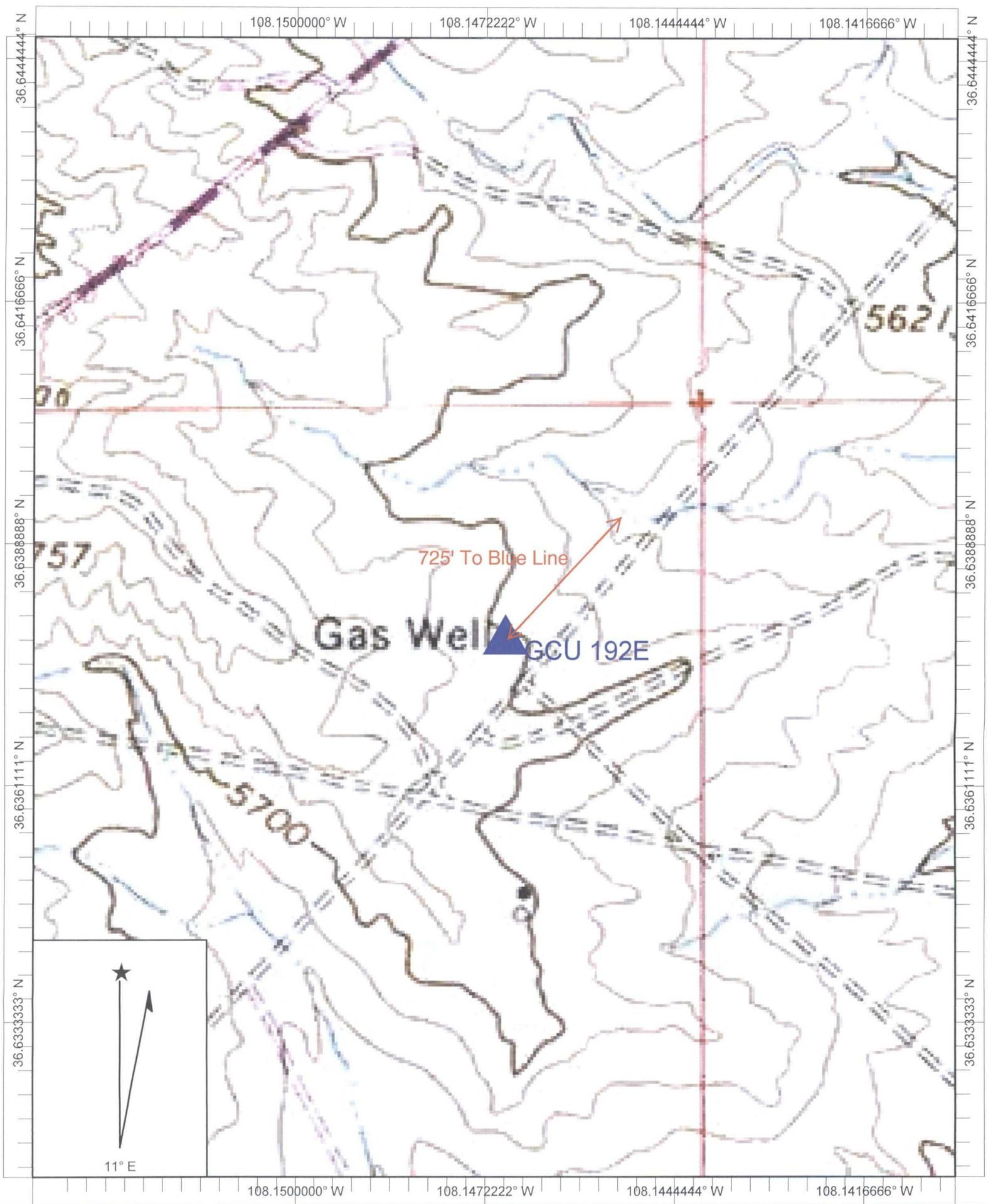
May 1, 2015 Final excavation size approximately 18' x 18' x 9' deep. Crew completes backfilling with clean fill. A replacement BGT (95 barrel double wall/double bottom) scheduled to be installed in the exact same location pursuant to an approved BGT. Approximate volume of soils removed and transported to BP Crouch Mesa Landfarm = 100 CY.

GCU 192E
Remediation of 95 bbl BGT
April 28 - 29, 2015

Remedial Excavation
18' x 18' x 9' Deep

Numbers Indicate
Composite Sample
Location ID's as
Shown in Table and
Marked on Lab
Reports





Name: FARMINGTON SOUTH
Date: 4/15/2015
Scale: 1 inch equals 500 feet

Location: 036.6381225° N 108.1470932° W
Caption: BP: GCU 192E

Analytical Report

Lab Order 1504C05

Date Reported: 5/1/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 4-Pt Sidewalls 4'-8'

Project: GCU 192E

Collection Date: 4/28/2015 10:50:00 AM

Lab ID: 1504C05-001

Matrix: MEOH (SOIL)

Received Date: 4/29/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/29/2015 10:06:41 AM	18941
Surr: DNOP	85.7	57.9-140		%REC	1	4/29/2015 10:06:41 AM	18941
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	4/30/2015 3:15:26 PM	18956
Surr: BFB	89.7	80-120		%REC	1	4/30/2015 3:15:26 PM	18956
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.042		mg/Kg	1	4/29/2015 10:17:21 AM	18933
Toluene	ND	0.042		mg/Kg	1	4/29/2015 10:17:21 AM	18933
Ethylbenzene	ND	0.042		mg/Kg	1	4/29/2015 10:17:21 AM	18933
Xylenes, Total	ND	0.084		mg/Kg	1	4/29/2015 10:17:21 AM	18933
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	4/29/2015 10:17:21 AM	18933
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/29/2015 11:04:48 AM	18944

Overhead View Sample ID: 1

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	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.

WO#: 1504C05

01-May-15

Client: Blagg Engineering

Project: GCU 192E

Sample ID	MB-18944	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	18944	RunNo:	25872					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	766798	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-18944	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	18944	RunNo:	25872					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	766799	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH Not In Range |
| 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.

WO#: 1504C05

01-May-15

Client: Blagg Engineering

Project: GCU 192E

Sample ID	MB-18941	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	18941	RunNo:	25835					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	765730	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.7		10.00		97.0	57.9	140			

Sample ID	LCS-18941	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	18941	RunNo:	25835					
Prep Date:	4/29/2015	Analysis Date:	4/29/2015	SeqNo:	765964	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.9	67.8	130			
Surr: DNOP	5.1		5.000		101	57.9	140			

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 Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C05

01-May-15

Client: Blagg Engineering

Project: GCU 192E

Sample ID	MB-18956	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	18956	RunNo:	25877					
Prep Date:	4/29/2015	Analysis Date:	4/30/2015	SeqNo:	767279	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	880		1000		87.8	80	120			

Sample ID	LCS-18956	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	18956	RunNo:	25877					
Prep Date:	4/29/2015	Analysis Date:	4/30/2015	SeqNo:	767280	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	64	130			
Surr: BFB	970		1000		96.8	80	120			

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 Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C05

01-May-15

Client: Blagg Engineering

Project: GCU 192E

Sample ID	MB-18933	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	18933	RunNo:	25848					
Prep Date:	4/28/2015	Analysis Date:	4/29/2015	SeqNo:	766315	Units:	mg/Kg			
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								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	LCS-18933	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	18933	RunNo:	25848					
Prep Date:	4/28/2015	Analysis Date:	4/29/2015	SeqNo:	766316	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	108	76.6	128			
Toluene	1.0	0.050	1.000	0	104	75	124			
Ethylbenzene	1.1	0.050	1.000	0	107	79.5	126			
Xylenes, Total	3.2	0.10	3.000	0	106	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	MB-18956	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	18956	RunNo:	25877					
Prep Date:	4/29/2015	Analysis Date:	4/30/2015	SeqNo:	767295	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID	LCS-18956	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	18956	RunNo:	25877					
Prep Date:	4/29/2015	Analysis Date:	4/30/2015	SeqNo:	767296	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1504C05** RcptNo: **1**

Received by/date: *[Signature]* **04/29/15**

Logged By: **Lindsay Mangin** 4/29/2015 7:00:00 AM *[Signature]*

Completed By: **Lindsay Mangin** 4/29/2015 7:45:57 AM *[Signature]*

Reviewed By: **CS** **04/29/15**

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

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

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	3.4	Good	Yes			

Chain-of-Custody Record

Client: BP America

BL66

Mailing Address: P.O. Box 87
Bloomfield NM 87413

Phone #: 505-320-1183

Email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time: SAME DAY

Standard Rush

Project Name: GCU 192E

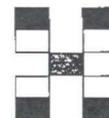
Project #:

Project Manager: J-BL66

Sampler: J-BL66

On Ice: Yes No

Sample Temperature: 3.4



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / TPH)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	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	Air Bubbles (Y or N)
<u>4/28/15</u>	<u>1050</u>	<u>SOIL</u>	<u>4-PE sidewalks 4-9'</u>	<u>4oz x 1</u>	<u>cool</u>	<u>1504/005 -001</u>	<u>X</u>		<u>X</u>									<u>X</u>	
<u>"</u>	<u>1055</u>	<u>"</u>	<u>5-PE BASE @ 9'</u>	<u>"</u>	<u>"</u>	<u>-002</u>	<u>X</u>		<u>X</u>									<u>X</u>	

Date: 4/28/15 Time: 1522 Relinquished by: Jeff Blagg

Date: 4/28/15 Time: 1522 Received by: Christin Walker

Date: 4/29/15 Time: 0700 Relinquished by: Christin Walker

Date: 4/29/15 Time: 0700 Received by: [Signature]

Remarks: Bill BP CONTACT: JEFF PENCE PARKER: ZEVHOLREME

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.

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering **Client Sample ID:** West Sidewall 3-pt 4'-8'
Project: GCU 192E **Collection Date:** 4/29/2015 10:51:00 AM
Lab ID: 1504C73-001 **Matrix:** SOIL **Received Date:** 4/30/2015 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/30/2015 10:43:57 AM	18975
Surr: DNOP	90.0	57.9-140		%REC	1	4/30/2015 10:43:57 AM	18975
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	4/30/2015 9:30:51 AM	18956
Surr: BFB	89.3	80-120		%REC	1	4/30/2015 9:30:51 AM	18956
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.040		mg/Kg	1	4/30/2015 9:30:51 AM	18956
Toluene	ND	0.040		mg/Kg	1	4/30/2015 9:30:51 AM	18956
Ethylbenzene	ND	0.040		mg/Kg	1	4/30/2015 9:30:51 AM	18956
Xylenes, Total	ND	0.079		mg/Kg	1	4/30/2015 9:30:51 AM	18956
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	4/30/2015 9:30:51 AM	18956
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/30/2015 10:57:10 AM	18977

Overhead View Sample ID: 3

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: North Sidewall 3-pt 4'-8'

Project: GCU 192E

Collection Date: 4/29/2015 10:56:00 AM

Lab ID: 1504C73-002

Matrix: SOIL

Received Date: 4/30/2015 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	4/30/2015 11:05:14 AM	18975
Surr: DNOP	87.9	57.9-140		%REC	1	4/30/2015 11:05:14 AM	18975
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	4/30/2015 9:59:36 AM	18956
Surr: BFB	90.5	80-120		%REC	1	4/30/2015 9:59:36 AM	18956
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.043		mg/Kg	1	4/30/2015 9:59:36 AM	18956
Toluene	ND	0.043		mg/Kg	1	4/30/2015 9:59:36 AM	18956
Ethylbenzene	ND	0.043		mg/Kg	1	4/30/2015 9:59:36 AM	18956
Xylenes, Total	ND	0.087		mg/Kg	1	4/30/2015 9:59:36 AM	18956
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	4/30/2015 9:59:36 AM	18956
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/30/2015 11:09:35 AM	18977

Overhead View Sample ID: 4

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: South Sidewall 3-pt 4'-8'

Project: GCU 192E

Collection Date: 4/29/2015 11:06:00 AM

Lab ID: 1504C73-004

Matrix: SOIL

Received Date: 4/30/2015 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/30/2015 11:47:47 AM	18975
Surr: DNOP	90.5	57.9-140		%REC	1	4/30/2015 11:47:47 AM	18975
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/30/2015 10:57:00 AM	18956
Surr: BFB	90.6	80-120		%REC	1	4/30/2015 10:57:00 AM	18956
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/30/2015 10:57:00 AM	18956
Toluene	ND	0.047		mg/Kg	1	4/30/2015 10:57:00 AM	18956
Ethylbenzene	ND	0.047		mg/Kg	1	4/30/2015 10:57:00 AM	18956
Xylenes, Total	ND	0.094		mg/Kg	1	4/30/2015 10:57:00 AM	18956
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	4/30/2015 10:57:00 AM	18956
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/30/2015 11:34:24 AM	18977

Overhead View Sample ID: 6

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	O	RSD is greater than RSDlimit	P	Sample pH Not In Range
	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.

WO#: 1504C73

01-May-15

Client: Blagg Engineering

Project: GCU 192E

Sample ID	MB-18977	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	18977	RunNo:	25893					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767467	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-18977	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	18977	RunNo:	25893					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	767468	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

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 Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1504C73

01-May-15

Client: Blagg Engineering

Project: GCU 192E

Sample ID	MB-18975	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	18975	RunNo:	25869					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	766547	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.7		10.00		87.4	57.9	140			

Sample ID	LCS-18975	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	18975	RunNo:	25869					
Prep Date:	4/30/2015	Analysis Date:	4/30/2015	SeqNo:	766622	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.1	67.8	130			
Surr: DNOP	4.8		5.000		96.4	57.9	140			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH Not In Range |
| 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.

WO#: 1504C73

01-May-15

Client: Blagg Engineering

Project: GCU 192E

Sample ID	MB-18956	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	18956	RunNo:	25877					
Prep Date:	4/29/2015	Analysis Date:	4/30/2015	SeqNo:	767279	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	880		1000		87.8	80	120			

Sample ID	LCS-18956	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	18956	RunNo:	25877					
Prep Date:	4/29/2015	Analysis Date:	4/30/2015	SeqNo:	767280	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	64	130			
Surr: BFB	970		1000		96.8	80	120			

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| O RSD is greater than RSDlimit | P Sample pH Not In Range |
| 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.

WO#: 1504C73

01-May-15

Client: Blagg Engineering

Project: GCU 192E

Sample ID	MB-18956	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	18956	RunNo:	25877					
Prep Date:	4/29/2015	Analysis Date:	4/30/2015	SeqNo:	767295	Units:	mg/Kg			
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								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID	LCS-18956	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	18956	RunNo:	25877					
Prep Date:	4/29/2015	Analysis Date:	4/30/2015	SeqNo:	767296	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	76.6	128			
Toluene	1.1	0.050	1.000	0	106	75	124			
Ethylbenzene	1.1	0.050	1.000	0	107	79.5	126			
Xylenes, Total	3.2	0.10	3.000	0	106	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

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 Not In Range
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1504C73**

RcptNo: **1**

Received by/date: ATC 4/30/15

Logged By: **Anne Thorne** 4/30/2015 6:50:00 AM *Anne Thorne*

Completed By: **Anne Thorne** 4/30/2015 *Anne Thorne*

Reviewed By: *[Signature]* 04/30/15

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

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

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	1.0	Good	Yes			

Chain-of-Custody Record

Turn-Around Time: SAME DAY

Standard Rush

Project Name: GCW 192E

Project #: _____

Project Manager: J. Blagg

Sampler: J. Blagg

On Ice: Yes No

Sample Temperature: 10

Client: BP America

Blagg

Mailing Address: P.O. Box 87
Bloomfield NM 87413

Phone #: 505-320-1183

Email or Fax#: _____

A/QC Package: Standard Level 4 (Full Validation)

Accreditation: NELAP Other _____

Method (Type): _____



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE THPS (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / HTCO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	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	Air Bubbles (Y or N)
4/15	1051	SOIL	West Sidewalk 3-pt 4'-8'	4oz x 1	COX	504673 -C01	X	X										X	
"	1056	"	NORTH Sidewalk 3-pt 4'-8'	"	"	-C02	X	X										X	
"	1101	"	EAST Sidewalk 3-pt 4'-8'	"	"	-C03	X	X										X	
"	1106	"	SOUTH Sidewalk 3-pt 4'-8'	"	"	-C04	X	X										X	

Date: 4/29/2015 Time: 1800 Relinquished by: Jeff Blagg

Date: 4/29/15 Time: 1800 Received by: Christina Waetz

Date: 4/13/15 Time: 0650 Relinquished by: Christina Waetz

Date: 4/13/15 Time: 0650 Received by: Clayton

Remarks: Bill BP
CONTACT: JEFF PEACE
PATKEY: ZEVHOIREME

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.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

03143-1082

Form C-138
Revised March 12, 2007

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: BP America Production Co. * 200 Energy Court * Farmington, NM 87401	
2. Originating Site: Gallegos Canyon Unit 192E well site - NE/4 Section 30, T28N, R12W Paykey ZEVH01REME April 2015	
3. Location of Material (Street Address, City, State or ULSTR): Gallegos Canyon Unit 192E well site - NE/4 Section 30, T28N, R12W or Physical Address: 200 Energy Court, Farmington, NM 87401	
1. Source and Description of Waste: Soil impacted from condensate release Estimated Volume 100 yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) 90 yd ³ / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Jeff Peace <i>Jeff Peace</i> , representative or authorized agent for BP America Production Company do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) <input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input checked="" type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load <input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items) <input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input checked="" type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, Jeff Peace <i>Jeff Peace</i> , representative for BP America do hereby certify that Representative/Agent Signature representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.	
6. Transporter: Crossfire	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Soil Remediation Facility / Permit No. NM 01-0011

Address of Facility: # 43 CR 7175, South of Bloomfield, NM

Method of Treatment and/or Disposal:

Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

APPROVED

DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Kendra Runung

TITLE: Waste Coordinator DATE: 4-28-15

SIGNATURE: *Kendra Runung*
Surface Waste Management Facility Authorized Agent

TELEPHON 505-632-1782 FAX NO.: 505-632-1876 or 505-334-1003