

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  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised April 3, 2017

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 America Production Company	Contact	Erin Garifalos
Address	200 Energy Court, Farmington, NM 87401	Telephone No.	(832) 609-7048
Facility Name	VANDEWART A 005A	Facility Type	Natural Gas Well

Surface Owner	Federal	Mineral Owner	Federal	API No.	3004522363
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#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	14	29N	08W	1,700	South	1,600	East	San Juan

Latitude 36.72295 Longitude -107.64217 NAD83

#### NATURE OF RELEASE

Type of Release: none	Volume of Release: unknown	Volume Recovered: N/A
Source of Release: below grade tank - 95 bbl	Date and Hour of Occurrence: n/a	Date and Hour of Discovery: n/a
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.	

OIL CONS. DIV DIST. 3

NOV 01 2017

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for TPH and chlorides below BGT closure standards. BTEX exceeded the BGT closure requirements. Following the spill and release guidelines, the site is within the closure standard for BTEX requiring no further action. Further, subsequent sampling at a depth of 7' indicated BGT closure. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.\*  
No further action necessary. Final laboratory analysis determined no remedial action is required.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>erin garifalos</i>	OIL CONSERVATION DIVISION	
Printed Name: Erin Garifalos	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Coordinator	Approval Date: 11/8/2017	Expiration Date:
E-mail Address: erin.garifalos@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: October 31, 2017 Phone: (832) 609-7048		

\* Attach Additional Sheets If Necessary

NF 1730429294



CLIENT: **BP**

**BLAGG ENGINEERING, INC.**  
**P.O. BOX 87, BLOOMFIELD, NM 87413**  
**(505) 632-1199**

API #: **3004522363**  
TANK ID (if applicable): **A**

**FIELD REPORT:**  
(circle one): BGT CONFIRMATION / **RELEASE INVESTIGATION** / OTHER:

PAGE #: **1** of **1**

SITE INFORMATION:

SITE NAME: **VANDEWART A # 5A**  
QUAD/UNIT: **J** SEC: **14** TWP: **29N** RNG: **8W** PM: **NM** CNTY: **SJ** ST: **NM**  
1/4 -1/4/FOOTAGE: **1,700'S / 1,600'E** **NW/SW** LEASE TYPE: **FEDERAL** / STATE / FEE / INDIAN  
LEASE #: **SF078502** PROD. FORMATION: **PC/MV** CONTRACTOR: **BP - J. GONZALES**

DATE STARTED: **08/01/17**  
DATE FINISHED:

ENVIRONMENTAL SPECIALIST(S): **NJV**

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: **36.72275 X 107.64197** GL ELEV.: **6,927'**  
1) **95 BGT (SW/DB)** GPS COORD.: **36.72295 X 107.64217** DISTANCE/BEARING FROM W.H.: **113.5', N41.5W**  
2) GPS COORD.: DISTANCE/BEARING FROM W.H.:  
3) GPS COORD.: DISTANCE/BEARING FROM W.H.:  
4) GPS COORD.: DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: **HALL**  
1) SAMPLE ID: **1 @ 5.5' (95)** SAMPLE DATE: **08/01/17** SAMPLE TIME: **1025** LAB ANALYSIS: **8015B/8021B/300.0 (CI)** OVM READING (ppm): **9,943**  
2) SAMPLE ID: **Center @ 7'** SAMPLE DATE: **08/03/17** SAMPLE TIME: **1030** LAB ANALYSIS: **8015B/8021B/300.0 (CI)** **3,577**  
3) SAMPLE ID: **North & East @ 7'** SAMPLE DATE: **08/03/17** SAMPLE TIME: **1053** LAB ANALYSIS: **8015B/8021B/300.0 (CI)** **see notes below**  
4) SAMPLE ID: **South & West @ 7'** SAMPLE DATE: **08/03/17** SAMPLE TIME: **1125** LAB ANALYSIS: **8015B/8021B/300.0 (CI)** **see notes below**  
5) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:

SOIL DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL **[OTHER]** **BEDROCK (SANDSTONE)**  
SOIL COLOR: **MOSTLY LIGHT GRAY**  
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE **[HIGHLY COHESIVE]**  
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE **[VERY DENSE]**  
MOISTURE: DRY **[SLIGHTLY MOIST]** MOIST / WET / SATURATED / SUPER SATURATED  
SAMPLE TYPE: **[GRAB]** COMPOSITE - # OF PTS. **NA**  
DISCOLORATION/STAINING OBSERVED: **[YES]** NO EXPLANATION - **VARYING SHADES OF GRAY.**

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC  
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD  
HC ODOR DETECTED: **[YES]** NO EXPLANATION - **DISCOLORED BEDROCK.**  
ANY AREAS DISPLAYING WETNESS: YES **[NO]** EXPLANATION -

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: **[YES]** NO EXPLANATION - **INSPECTION PORT 90 DEGREE ELBOW STEEL FITTING.**  
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: **[YES]** NO EXPLANATION: **PHYSICAL APPEARANCE & HYDROCARBON ODOR.**  
EQUIPMENT SET OVER RECLAIMED AREA: **[YES]** NO EXPLANATION - **105 BBL SHALLOW LOW PROFILE ABOVE-GRADE TANK TO BE SET ATOP BGT LOCATION.**  
OTHER: **NMOCD OR BLM REPS. NOT PRESENT TO WITNESS SAMPLING. USED BACKHOE TO EXTEND SAMPLE POINTS TO 7 FT. BELOW WELL PAD GRADE. BEDROCK - DENSE, VERY HARD, COMPETENT. COMBINED NORTH & EAST, SOUTH & WEST SIDEWALL SAMPLES FOR LAB ANALYSES.**  
EXCAVATION DIMENSION ESTIMATION: **12** ft. X **12** ft. X **2** ft. EXCAVATION ESTIMATION (Cubic Yards): **15 ±**  
DEPTH TO GROUNDWATER: **>100'** NEAREST WATER SOURCE: **>1,000'** NEAREST SURFACE WATER: **>1,000'** NMOCD TPH CLOSURE STD: **5,000** ppm

SITE SKETCH

BGT Located: off **[on]** site PLOT PLAN circle: **attached**

SAMPLE ID	TIME	OVM (ppm)
NORTH @ 7'	1040	2,845
SOUTH @ 7'	1125	1,008
EAST @ 7'	1053	2,784
WEST @ 7'	1108	3,967

MISCELL. NOTES

WO:  
REF #: **P-860**  
VID: **VHIXONEV11**  
PJ #:  
Permit date(s): **06/14/10**  
OCD Appr. date(s): **05/31/17**  

TANK ID: **A** OVM = Organic Vapor Meter ppm = parts per million  
BGT Sidewalls Visible: **(Y) N**  
BGT Sidewalls Visible: **Y / N**  
BGT Sidewalls Visible: **Y / N**

Magnetic declination: **10° E**

NOTES: **GOOGLE EARTH IMAGERY DATE: 10/5/2016.**

ONSITE: **08/01/17, 08/03/17.**

revised: 11/26/13

BEI1005E-6.SKf

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1708107

Date Reported: 8/4/2017

CLIENT: Blagg Engineering

Client Sample ID: 1 @ 5.5' (95)

Project: VANDEWART A #5A

Collection Date: 8/1/2017 10:25:00 AM

Lab ID: 1708107-001

Matrix: SOIL

Received Date: 8/2/2017 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	8/2/2017 11:59:52 AM	33135
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	2100	95		mg/Kg	10	8/2/2017 9:37:05 AM	33129
Motor Oil Range Organics (MRO)	710	470		mg/Kg	10	8/2/2017 9:37:05 AM	33129
Surr: DNOP	0	70-130	S	%Rec	10	8/2/2017 9:37:05 AM	33129
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	1500	200		mg/Kg	50	8/2/2017 10:08:57 AM	33109
Surr: BFB	206	54-150	S	%Rec	50	8/2/2017 10:08:57 AM	33109
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.94	0.80		mg/Kg	50	8/2/2017 10:08:57 AM	33109
Toluene	1.7	0.80		mg/Kg	50	8/2/2017 10:08:57 AM	33109
Ethylbenzene	5.0	2.0		mg/Kg	50	8/2/2017 10:08:57 AM	33109
Xylenes, Total	70	4.0		mg/Kg	50	8/2/2017 10:08:57 AM	33109
Surr: 4-Bromofluorobenzene	118	66.6-132		%Rec	50	8/2/2017 10:08:57 AM	33109

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



# Analytical Report

Lab Order: 1708268

Date Reported: 8/7/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering  
Project: VANDEWART A 5A

Lab Order: 1708268

Lab ID: 1708268-001

Collection Date: 8/3/2017 10:30:00 AM

Client Sample ID: Center @ 7'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.093		mg/Kg	5	8/4/2017 9:35:43 AM	33155
Toluene	ND	0.19		mg/Kg	5	8/4/2017 9:35:43 AM	33155
Ethylbenzene	ND	0.19		mg/Kg	5	8/4/2017 9:35:43 AM	33155
Xylenes, Total	0.57	0.37		mg/Kg	5	8/4/2017 9:35:43 AM	33155
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	5	8/4/2017 9:35:43 AM	33155

Lab ID: 1708268-002

Collection Date: 8/3/2017 10:53:00 AM

Client Sample ID: North & East @ 7'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.096		mg/Kg	5	8/4/2017 9:59:41 AM	33155
Toluene	0.27	0.19		mg/Kg	5	8/4/2017 9:59:41 AM	33155
Ethylbenzene	ND	0.19		mg/Kg	5	8/4/2017 9:59:41 AM	33155
Xylenes, Total	16	0.38		mg/Kg	5	8/4/2017 9:59:41 AM	33155
Surr: 4-Bromofluorobenzene	132	66.6-132		%Rec	5	8/4/2017 9:59:41 AM	33155

Lab ID: 1708268-003

Collection Date: 8/3/2017 11:25:00 AM

Client Sample ID: South & West @ 7'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.096		mg/Kg	5	8/4/2017 10:23:40 AM	33155
Toluene	ND	0.19		mg/Kg	5	8/4/2017 10:23:40 AM	33155
Ethylbenzene	ND	0.19		mg/Kg	5	8/4/2017 10:23:40 AM	33155
Xylenes, Total	1.3	0.38		mg/Kg	5	8/4/2017 10:23:40 AM	33155
Surr: 4-Bromofluorobenzene	116	66.6-132		%Rec	5	8/4/2017 10:23:40 AM	33155

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
	D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified





<b>Chain-of-Custody Record</b>		Turn-Around Time:	SAME DAY
Client:	BP AMERICA	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush
	BLADE Engineering Inc.	Project Name:	VANDEWAACT A SA
Mailing Address:		Project #:	95 BGT
Phone #:	(505) 320-1183	Project Manager:	J. BLADE
email or Fax#:		Sampler:	J. BLADE
QA/QC Package:	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Accreditation	<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____	Sample Temperature:	5.3/17 15/04/17
<input type="checkbox"/> EDD (Type)			

SAME  
DAY

☐ Standard ☒ Rush

Project Name:

VANDEWALT A 5A

Project #:

95 BGT

**Project Manager:**

J. BLAKE

Sampler: J. Blain

On Ice: ☒ Yes ☐ No

Sample Temperature 5.3/7 080417

~~A-08/04/17~~

Preservative  
Type

HEAL No

1719268

[illegible]

Date: 8/3/2017	Time: 1528	Relinquished by: JH Blage	Received by: Christina Wertz	Date 8/3/2017	Time 1528
Date: 8/3/17	Time: 1820	Relinquished by: Christina Wertz	Received by: [Signature]	Date 8/4/2017	Time 0815

Remarks: Bill BP CONTACT: STEVE MOSKAL  
VID: VHIXONEV11  
REF: P-860

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708107

04-Aug-17

Client: Blagg Engineering  
Project: VANDEWART A #5A

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

Sample ID	LCS-33135	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	33135	RunNo:	44669					
Prep Date:	8/2/2017	Analysis Date:	8/2/2017	SeqNo:	1413640	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708107

04-Aug-17

Client: Blagg Engineering  
Project: VANDEWART A #5A

Sample ID	LCS-33129		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	33129		RunNo:	44661				
Prep Date:	8/2/2017		Analysis Date:	8/2/2017		SeqNo:	1411982		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	73.2	114				
Surr: DNOP	4.5		5.000		89.8	70	130				

Sample ID	MB-33129		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	33129		RunNo:	44661				
Prep Date:	8/2/2017		Analysis Date:	8/2/2017		SeqNo:	1411983		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.2		10.00		91.9	70	130				

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708107

04-Aug-17

Client: Blagg Engineering  
Project: VANDEWART A #5A

Sample ID	MB-33109	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID:	33109	RunNo:	44673						
Prep Date:	8/1/2017	Analysis Date:	8/2/2017	SeqNo:	1413152	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	920		1000		91.8	54	150				

Sample ID	LCS-33109	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch ID:	33109	RunNo:	44673						
Prep Date:	8/1/2017	Analysis Date:	8/2/2017	SeqNo:	1413153	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.7	76.4	125				
Surr: BFB	1000		1000		105	54	150				

## Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708107

04-Aug-17

Client: Blagg Engineering  
Project: VANDEWART A #5A

Sample ID	MB-33109	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	33109	RunNo:	44673					
Prep Date:	8/1/2017	Analysis Date:	8/2/2017	SeqNo:	1413168	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	66.6	132			

Sample ID	LCS-33109	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	33109	RunNo:	44673					
Prep Date:	8/1/2017	Analysis Date:	8/2/2017	SeqNo:	1413169	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	66.6	132			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1708107

RcptNo: 1

Received By: Anne Thorne

8/2/2017 7:25:00 AM

*Anne Thorne*

Completed By: Anne Thorne

8/2/2017 7:36:45 AM

*Anne Thorne*

Reviewed By:

*[Signature]*

8/2/17

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1708268

07-Aug-17

Client: Blagg Engineering  
Project: VANDEWART A 5A

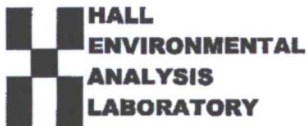
Sample ID	MB-33155	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	33155	RunNo:	44725					
Prep Date:	8/3/2017	Analysis Date:	8/4/2017	SeqNo:	1414815	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		113	66.6	132			

Sample ID	LCS-33155	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	33155	RunNo:	44725					
Prep Date:	8/3/2017	Analysis Date:	8/4/2017	SeqNo:	1414816	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	0.99	0.050	1.000	0	99.2	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		118	66.6	132			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| PQL Practical Quantitative Limit                        | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: 1708268

RcptNo: 1

Received By: **Erin Melendrez**

8/4/2017 8:15:00 AM

*UAG*

Completed By: **Anne Thorne**

8/4/2017 8:29:42 AM

*Anne Thorne*

Reviewed By:

**ENM**

**8/4/17**

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			