

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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party BP America Production Company	OGRID 778
Contact Name Steve Moskal	Contact Telephone (505) 330-9179
Contact email steven.moskal@bpx.com	Incident # (assigned by OCD) NCS 1828336993
Contact mailing address 380 North Airport Road, Durango, CO 81303	

Location of Release Source

Latitude **36.834225** Longitude **-107.816653**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name FLORANCE GC J # 16A	Site Type Natural Gas Well Site
Date Release Discovered	API# (if applicable) 3004521790

Unit Letter	Section	Township	Range	County
P	06	30N	09W	San Juan

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Minor staining was sampled beneath the below grade tank during closure. Lab samples were taken of stained soil, followed by approximately 1 cubic yard removed. Subsequent sampling indicated additional excavation was required. Another 3 cubic yards were removed with confirmation sampling indicating no further action necessary. The impacted soil was likely associated with use of the tank and minor spills during the use, i.e. connection and disconnecting hoses from the load line. The stained area was excavated and removed. A total of approximately 4 cubic yards of impacted soil was removed.

NMOC

OCT 02 2018

DISTRICT III

25

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC?

☐ Yes ☒ No

If YES, for what reason(s) does the responsible party consider this a major release?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Steve Moskal

Title: Environmental Coordinator

Signature: _____

Date: 9/28/2018

email: steven.moskal@bpx.com

Telephone: (505) 330-9179

OCD Only

Received by: _____

Date: _____

10/10/18

Incident ID	
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	30 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	
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Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Steve Moskal Title: Environmental Coordinator

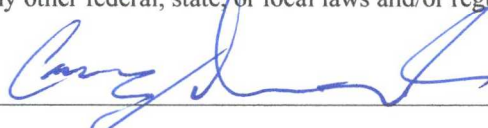
Signature: _____ Date: 9/28/2018

email: steven.moskal@bpx.com Telephone: (505) 330-9179

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 10/10/18

Printed Name: Cory Title: Environmental Spec.

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: 3004521790 TANK ID (if applicable): D
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FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:

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

SITE INFORMATION:	SITE NAME: FLORANCE GC J # 16A QUAD/UNIT: P SEC: 6 TWP: 30N RNG: 9W PM: NM CNTY: SJ ST: NM 1/4 - 1/4 FOOTAGE: 825'S / 1,030'E SE/SE LEASE TYPE: FEDERAL / STATE / FEE / INDIAN LEASE #: SF078129A PROD. FORMATION: MV CONTRACTOR: STRIKE MBF - R. POWELL	DATE STARTED: 07/26/18 DATE FINISHED: 07/31/18 ENVIRONMENTAL SPECIALIST(S): NJV
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REFERENCE POINT:	WELL HEAD (W.H.) GPS COORD.: 36.83541 X 107.81618 GL ELEV.: 6,508' 1) 95 BGT (DW/DB) GPS COORD.: 36.834225 X 107.816653 DISTANCE/BEARING FROM W.H.: 464', S16W 2) GPS COORD.: DISTANCE/BEARING FROM W.H.: 3) GPS COORD.: DISTANCE/BEARING FROM W.H.: 4) GPS COORD.: DISTANCE/BEARING FROM W.H.:	
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SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL	OVM READING (ppm) 23.7 392 0.0
1) SAMPLE ID: GRAB @ 3' (95) SAMPLE DATE: 07/26/18 SAMPLE TIME: 1311 LAB ANALYSIS: 8015B/8021B/300.0 (CI) 2) SAMPLE ID: GRAB @ 3' 2" (95) SAMPLE DATE: 07/26/18 SAMPLE TIME: 1313 LAB ANALYSIS: 8015B/8021B/300.0 (CI) 3) SAMPLE ID: SIDEWALL/BASE 6-pt. (4.5'-5.5') SAMPLE DATE: 07/31/18 SAMPLE TIME: 1112 LAB ANALYSIS: 8015B/8021B/300.0 (CI) 4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: 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: PALE YELLOWISH BROWN 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. 6 DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION - BLACK ISOLATED PATCH AT SOUTHERN QUADRANT OF BGT.
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SITE OBSERVATIONS:	LOST INTEGRITY OF EQUIPMENT: YES NO EXPLANATION - APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES / NO EXPLANATION: DISCOLORED ISOLATED PATCH AT SOUTHERN QUADRANT OF BGT. EQUIPMENT SET OVER RECLAIMED AREA: YES NO EXPLANATION - OTHER: NMOC & BLM REPS. PRESENT TO WITNESS CONFIRMATION SAMPLING. BGT CONSTRUCTION ACTUALLY SW/SB 15 FT. DIAMETER LOW PROFILE. ISOLATED, DISCOLORED, IMPACTED SANDSTONE REMOVED PRIOR TO COMPOSITE SAMPLE COLLECTION ON 07/31/2018. EXCAVATION DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards): NA DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: <1,000' NEAREST SURFACE WATER: <1,000' NMOC & BLM CLOSURE STD: 100 ppm
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SITE SKETCH

BGT Located: off on site

PLOT PLAN circle: **attached**

OVM CALIB. READ. = 99.8 ppm	RF=1.00
OVM CALIB. GAS = 100 ppm	
TIME: 10:00 am/pm DATE: 07/26/18	

MISCELL. NOTES

WBS: **L1-001CR-E:FLRNCGCJ16A**

REF #:

VID: **VHIXONEVRM**

PJ #:

Permit date(s): **09/29/17**

OCD Appr. date(s): **10/06/17**

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
D	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

Magnetic declination: **10° E**

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.

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

ONSITE: **07/26/18, 07/30/18, 07/31/18.**

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1807E57

Date Reported: 7/30/2018

CLIENT: Blagg Engineering

Project: FLORANCE GC J 16A

Lab ID: 1807E57-001

Matrix: SOIL

Client Sample ID: GRAB @ 3' (95)

Collection Date: 7/26/2018 1:11:00 PM

Received Date: 7/27/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	7/27/2018 9:54:14 AM	39452
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	22		mg/Kg	5	7/27/2018 10:30:53 AM	39440
Surr: BFB	109	70-130		%Rec	5	7/27/2018 10:30:53 AM	39440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	11000	990		mg/Kg	100	7/27/2018 2:07:11 PM	39449
Motor Oil Range Organics (MRO)	17000	4900		mg/Kg	100	7/27/2018 2:07:11 PM	39449
Surr: DNOP	0	50.6-138	S	%Rec	100	7/27/2018 2:07:11 PM	39449
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.11		mg/Kg	5	7/27/2018 10:30:53 AM	39440
Toluene	ND	0.22		mg/Kg	5	7/27/2018 10:30:53 AM	39440
Ethylbenzene	ND	0.22		mg/Kg	5	7/27/2018 10:30:53 AM	39440
Xylenes, Total	ND	0.43		mg/Kg	5	7/27/2018 10:30:53 AM	39440
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	5	7/27/2018 10:30:53 AM	39440
Surr: Toluene-d8	94.3	70-130		%Rec	5	7/27/2018 10:30:53 AM	39440

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1807E57**

Date Reported: 7/30/2018

CLIENT: Blagg Engineering**Project:** FLORANCE GC J 16A**Lab ID:** 1807E57-002**Matrix:** SOIL**Client Sample ID:** GRAB @ 3' 2" (95)**Collection Date:** 7/26/2018 1:13:00 PM**Received Date:** 7/27/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	0.30		mg/Kg	20	7/27/2018 10:06:39 AM	39452
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	20		mg/Kg	5	7/27/2018 10:53:59 AM	39440
Surr: BFB	108	70-130		%Rec	5	7/27/2018 10:53:59 AM	39440
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	1100	96		mg/Kg	10	7/27/2018 11:32:15 AM	39449
Motor Oil Range Organics (MRO)	900	480		mg/Kg	10	7/27/2018 11:32:15 AM	39449
Surr: DNOP	0	50.6-138	S	%Rec	10	7/27/2018 11:32:15 AM	39449
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.098		mg/Kg	5	7/27/2018 10:53:59 AM	39440
Toluene	ND	0.20		mg/Kg	5	7/27/2018 10:53:59 AM	39440
Ethylbenzene	ND	0.20		mg/Kg	5	7/27/2018 10:53:59 AM	39440
Xylenes, Total	ND	0.39		mg/Kg	5	7/27/2018 10:53:59 AM	39440
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	5	7/27/2018 10:53:59 AM	39440
Surr: Toluene-d8	91.9	70-130		%Rec	5	7/27/2018 10:53:59 AM	39440

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1808002

Date Reported: 8/3/2018

CLIENT: Blagg Engineering

Project: FLORANCE GC J 16A

Lab ID: 1808002-001

Matrix: SOIL

Client Sample ID: Sidewall/Base 6-pt (4.5-5')

Collection Date: 7/31/2018 11:12:00 AM

Received Date: 8/1/2018 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	ND	30		mg/Kg	20	8/1/2018 12:31:18 PM	39532
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	8/1/2018 11:57:41 AM	39512
Surr: BFB	115	70-130		%Rec	1	8/1/2018 11:57:41 AM	39512
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/1/2018 11:58:16 AM	39527
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/1/2018 11:58:16 AM	39527
Surr: DNOP	81.0	50.6-138		%Rec	1	8/1/2018 11:58:16 AM	39527
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
Benzene	ND	0.017		mg/Kg	1	8/1/2018 11:57:41 AM	39512
Toluene	ND	0.034		mg/Kg	1	8/1/2018 11:57:41 AM	39512
Ethylbenzene	ND	0.034		mg/Kg	1	8/1/2018 11:57:41 AM	39512
Xylenes, Total	ND	0.067		mg/Kg	1	8/1/2018 11:57:41 AM	39512
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/1/2018 11:57:41 AM	39512
Surr: Toluene-d8	100	70-130		%Rec	1	8/1/2018 11:57:41 AM	39512

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

Client: **BLAGG ENGR. / BP AMERICA**

Mailing Address: **P.O. BOX 87**
BLOOMFIELD, NM 87413

Phone #: **(505) 632-1199**
email or Fax#:

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

Accreditation:
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

[illegible]

Date: 7/26/18	Time: 1440	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date 7/26/18	Time 1440
Date: 7/26/18	Time: 1841	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date 07/27/18	Time 0700

✓	✓	BTEX + MTBE TMDLs (8021B)
		BTEX + MTBE + TPH (Gas only)
✓	✓	TPH 8015B (GRO / DRO / MRO)
		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 - 300.1)
✓	✓	Grab sample
		# pt. composite sample

Remarks:	<u>BILL DIRECTLY TO BP USING THE CONTACT WITH CORRESPONDING</u> <u>& REFERENCE # WHEN APPLICABLE:</u>
CONTACT:	STEVE MOSKAL / VANCE HIXON
VID:	VHIXONEVRM
Reference #	L1-001CR-E:FLRNCGCJ16A

Chain-of-Custody Record				Turn-Around Time:			<div style="display: flex; align-items: center;"> <div> HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 </div> </div>																																																				
Client: BP AMERICA				<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush SAME DAY			<div style="text-align: center; background-color: #333; color: white; padding: 5px; font-weight: bold;">Analysis Request</div> <table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 10%;">BTEX + MTBE + TMS's (8021)</td> <td style="width: 10%;">BTEX + MTBE + TPH (Gas only)</td> <td style="width: 10%;">TPH 8015B (GRO / DRO / MRO)</td> <td style="width: 10%;">TPH (Method 418.1)</td> <td style="width: 10%;">EDB (Method 504.1)</td> <td style="width: 10%;">PAH's (8310 or 8270 SIMS)</td> <td style="width: 10%;">RCRA 8 Metals</td> <td style="width: 10%;">Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)</td> <td style="width: 10%;">8081 Pesticides / 8082 PCB's</td> <td style="width: 10%;">8260B (VOA)</td> <td style="width: 10%;">8270 (Semi-VOA)</td> <td style="width: 10%;">CHLORIDE</td> <td style="width: 10%;">Air Bubbles (Y or N)</td> </tr> <tr> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> </table>													BTEX + MTBE + TMS's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	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)	X	X										X															
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Project Name: FLORANCE GC J 16A				Project #: _____																																																							
Project Manager: STEVE MOSKAL				Sampler: JEFF BLAGG																																																							
Mailing Address: _____				On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 10%;">Date</td> <td style="width: 10%;">Time</td> <td style="width: 10%;">Matrix</td> <td style="width: 20%;">Sample Request ID</td> <td style="width: 10%;">Container Type and #</td> <td style="width: 10%;">Preservative Type</td> <td style="width: 10%;">HEAL No.</td> <td style="width: 10%;">BTEX + MTBE + TMS's (8021)</td> <td style="width: 10%;">BTEX + MTBE + TPH (Gas only)</td> <td style="width: 10%;">TPH 8015B (GRO / DRO / MRO)</td> <td style="width: 10%;">TPH (Method 418.1)</td> <td style="width: 10%;">EDB (Method 504.1)</td> <td style="width: 10%;">PAH's (8310 or 8270 SIMS)</td> <td style="width: 10%;">RCRA 8 Metals</td> <td style="width: 10%;">Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)</td> <td style="width: 10%;">8081 Pesticides / 8082 PCB's</td> <td style="width: 10%;">8260B (VOA)</td> <td style="width: 10%;">8270 (Semi-VOA)</td> <td style="width: 10%;">CHLORIDE</td> <td style="width: 10%;">Air Bubbles (Y or N)</td> </tr> <tr> <td>7/31/2018</td> <td>1112</td> <td>SOIL</td> <td>SIDEWALL / BASE 6-PK (4 1/2" - 5")</td> <td>4oz x 1</td> <td>celx</td> <td>201</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> </table>													Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMS's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	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)	7/31/2018	1112	SOIL	SIDEWALL / BASE 6-PK (4 1/2" - 5")	4oz x 1	celx	201	X	X										X	
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email or Fax#: _____				QA/QC Package:			<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 10%;">Date</td> <td style="width: 10%;">Time</td> <td style="width: 10%;">Matrix</td> <td style="width: 20%;">Sample Request ID</td> <td style="width: 10%;">Container Type and #</td> <td style="width: 10%;">Preservative Type</td> <td style="width: 10%;">HEAL No.</td> <td style="width: 10%;">BTEX + MTBE + TMS's (8021)</td> <td style="width: 10%;">BTEX + MTBE + TPH (Gas only)</td> <td style="width: 10%;">TPH 8015B (GRO / DRO / MRO)</td> <td style="width: 10%;">TPH (Method 418.1)</td> <td style="width: 10%;">EDB (Method 504.1)</td> <td style="width: 10%;">PAH's (8310 or 8270 SIMS)</td> <td style="width: 10%;">RCRA 8 Metals</td> <td style="width: 10%;">Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)</td> <td style="width: 10%;">8081 Pesticides / 8082 PCB's</td> <td style="width: 10%;">8260B (VOA)</td> <td style="width: 10%;">8270 (Semi-VOA)</td> <td style="width: 10%;">CHLORIDE</td> <td style="width: 10%;">Air Bubbles (Y or N)</td> </tr> <tr> <td>7/31/2018</td> <td>1112</td> <td>SOIL</td> <td>SIDEWALL / BASE 6-PK (4 1/2" - 5")</td> <td>4oz x 1</td> <td>celx</td> <td>201</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> </table>													Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMS's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	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)	7/31/2018	1112	SOIL	SIDEWALL / BASE 6-PK (4 1/2" - 5")	4oz x 1	celx	201	X	X										X	
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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#: 1807E57

30-Jul-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	MB-39452	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	39452	RunNo:	53018					
Prep Date:	7/27/2018	Analysis Date:	7/27/2018	SeqNo:	1744997	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39452	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	39452	RunNo:	53018					
Prep Date:	7/27/2018	Analysis Date:	7/27/2018	SeqNo:	1744998	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

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#: 1807E57

30-Jul-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	MB-39449	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	39449	RunNo:	53013					
Prep Date:	7/27/2018	Analysis Date:	7/27/2018	SeqNo:	1742975	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	8.7		10.00		87.4	50.6	138			

Sample ID	LCS-39449		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 39449		RunNo: 53013					
Prep Date:	7/27/2018		Analysis Date: 7/27/2018		SeqNo: 1742976		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.6	70	130			
Surr: DNOP	4.0		5.000		80.7	50.6	138			

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#: 1807E57

30-Jul-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	Ics-39440		SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC		Batch ID: 39440		RunNo: 53022					
Prep Date:	7/26/2018		Analysis Date: 7/27/2018		SeqNo: 1743349		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.8	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.58		0.5000		117	70	130			
Surr: Toluene-d8	0.45		0.5000		89.6	70	130			

Sample ID	mb-39440		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 39440		RunNo: 53022					
Prep Date:	7/26/2018		Analysis Date: 7/27/2018		SeqNo: 1743350		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.64		0.5000		129	70	130			
Surr: Toluene-d8	0.44		0.5000		88.7	70	130			

Sample ID	1807e57-002ams		SampType: MS4		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	GRAB @ 3' 2" (95)		Batch ID: 39440		RunNo: 53022					
Prep Date:			Analysis Date: 7/27/2018		SeqNo: 1743971		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.9	0.098	3.903	0	99.4	80	120			
Toluene	4.0	0.20	3.903	0	102	80	120			
Ethylbenzene	4.1	0.20	3.903	0	105	82	121			
Xylenes, Total	13	0.39	11.71	0.08083	106	80.2	120			
Surr: 4-Bromofluorobenzene	2.0		1.952		105	70	130			
Surr: Toluene-d8	1.8		1.952		89.9	70	130			

Sample ID	1807e57-002amsd		SampType: MSD4		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	GRAB @ 3' 2" (95)		Batch ID: 39440		RunNo: 53022					
Prep Date:			Analysis Date: 7/27/2018		SeqNo: 1743972		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.8	0.098	3.903	0	96.3	80	120	3.24	20	
Toluene	3.8	0.20	3.903	0	97.2	80	120	4.85	20	
Ethylbenzene	3.9	0.20	3.903	0	99.9	82	121	5.24	20	
Xylenes, Total	12	0.39	11.71	0.08083	102	80.2	120	3.83	20	

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#: 1807E57

30-Jul-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	1807e57-002amsd	SampType:	MSD4	TestCode:	EPA Method 8260B: Volatiles Short List						
Client ID:	GRAB @ 3' 2" (95)	Batch ID:	39440	RunNo:	53022						
Prep Date:		Analysis Date:	7/27/2018	SeqNo:	1743972	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	2.0		1.952		104	70	130	0	0		
Surr: Toluene-d8	1.7		1.952		89.4	70	130	0	0		

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#: 1807E57

30-Jul-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	Ics-39440		SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range				
Client ID:	LCSS		Batch ID: 39440			RunNo: 53022				
Prep Date:	7/26/2018		Analysis Date: 7/27/2018			SeqNo: 1743337		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	70	130			
Surr: BFB	520		500.0		105	70	130			

Sample ID	mb-39440		SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range				
Client ID:	PBS		Batch ID: 39440			RunNo: 53022				
Prep Date:	7/26/2018		Analysis Date: 7/27/2018			SeqNo: 1743338		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	570		500.0		115	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



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: **1807E57**

RcptNo: **1**

Received By: **Anne Thorne** 7/27/2018 7:00:00 AM

Completed By: **Anne Thorne** 7/27/2018 7:24:51 AM

Reviewed By: **Is** 7/27/18

Labeled by: **At** 07/27/18

Anne Thorne

Anne Thorne

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. 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)

15. 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: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808002

03-Aug-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	MB-39532	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	39532	RunNo:	53124					
Prep Date:	8/1/2018	Analysis Date:	8/1/2018	SeqNo:	1748820	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39532	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	39532	RunNo:	53124					
Prep Date:	8/1/2018	Analysis Date:	8/1/2018	SeqNo:	1748821	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.7	90	110			

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#: 1808002

03-Aug-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	MB-39457		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 39457		RunNo: 53063					
Prep Date:	7/27/2018		Analysis Date: 7/31/2018		SeqNo: 1746381		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		78.9	50.6	138			

Sample ID	LCS-39457		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 39457		RunNo: 53063					
Prep Date:	7/27/2018		Analysis Date: 7/31/2018		SeqNo: 1746382		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.0	50.6	138			

Sample ID	LCS-39527		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 39527		RunNo: 53063					
Prep Date:	8/1/2018		Analysis Date: 8/1/2018		SeqNo: 1747708		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	94.3	70	130			
Surr: DNOP	3.3		5.000		66.4	50.6	138			

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#: 1808002

03-Aug-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	Ics-39512		SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC		Batch ID: 39512		RunNo: 53126					
Prep Date:	7/31/2018		Analysis Date: 8/1/2018		SeqNo: 1747908		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.7	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	0.58		0.5000		117	70	130			
Surr: Toluene-d8	0.49		0.5000		98.9	70	130			

Sample ID	mb-39512		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 39512		RunNo: 53126					
Prep Date:	7/31/2018		Analysis Date: 8/1/2018		SeqNo: 1747909		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.62		0.5000		124	70	130			
Surr: Toluene-d8	0.48		0.5000		96.0	70	130			

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#: 1808002

03-Aug-18

Client: Blagg Engineering
Project: FLORANCE GC J 16A

Sample ID	Ics-39512		SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range				
Client ID:	LCSS		Batch ID: 39512			RunNo: 53126				
Prep Date:	7/31/2018		Analysis Date: 8/1/2018			SeqNo: 1747901		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	70	130			
Surr: BFB	520		500.0		104	70	130			

Sample ID	mb-39512		SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range				
Client ID:	PBS		Batch ID: 39512			RunNo: 53126				
Prep Date:	7/31/2018		Analysis Date: 8/1/2018			SeqNo: 1747902		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	550		500.0		111	70	130			

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
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Sample Log-In Check List

Client Name: BLAGG

Work Order Number: 1808002

RcptNo: 1

Received By: Anne Thorne

8/1/2018 7:50:00 AM

Anne Thorne

Completed By: Anne Thorne

8/1/2018 8:11:32 AM

Anne Thorne

Reviewed By:

JO

8/01/18

Labeled by 8/08/2018

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. 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)

15. 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:	_____		

16. Additional remarks:




17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Florance GC J 016A

Tank D BGT Closure Excavation
(P) S6, T30N, R09W
BGT GPS:36.834225, -107.816653

Legend

-  BGT Tank D
-  Composite Sample Location
-  Excavation area



Composite Sample Location

