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

3

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	NES1826750131
District RP	
Facility ID	
Application ID	

Release Notification



Responsible Party

SEP 17 2018

	DICTDICT III
Responsible Party BP America Production Company	OGRID 778
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address 200 North Airport Dood Durange	CO 91000

Contact mailing address 380 North Airport Road, Durango, CO 81303

Location of Release Source

Latitude 36.70245

Longitude -108.13715

(NAD 83 in decimal degrees to 5 decimal places)

Site Name GCU 188E	Site Type Natural Gas Well Site
Date Release Discovered	API# (if applicable) 3004524171

Unit Letter	Section	Township	Range	County	×
В	30	29N	12W	San Juan	COH HHAtchan

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

(s) Released (Select all that apply and attach calculations or specific		
Volume Released (bbls)	Volume Recovered (bbls)	
Volume Released (bbls)	Volume Recovered (bbls)	
Is the concentration of total dissolved solids (TDS)	Yes No	
Volume Released (bbls)	Volume Recovered (bbls)	
Volume Released (Mcf)	Volume Recovered (Mcf)	
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
losure sampling indicates not soil impacts	s however aroundwater was sampled	
iosure sampling indicates not soil impacta	s, nowever groundwater was sampled	
indicating elevated chloride levels. BP will further investigate through delineation via		
drilling using hollow stem auger.		
	Volume Released (bbls) Volume Released (bbls) Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l? Volume Released (bbls) Volume Released (Mcf) Volume/Weight Released (provide units) Iosure sampling indicates not soil impacts ing elevated chloride levels. BP will furth	

Smith, Cory, EMNRD

From:	Smith, Cory, EMNRD		
Sent:	Monday, September 24, 2018 2:33 PM		
То:	'Steven Moskal'; Fields, Vanessa, EMNRD		
Cc:	Blagg, Jefferey; 'blagg_njv@yahoo.com'		
Subject:	RE: Gallegos Canyon Unit 188E Groundwater Delineation Plan (NCS1826750131)		

Steve,

OCD has received the Initial/Work plan for the Possible? Release at the GCU 188E.

With the new rule OCD dosnt have to approve work plans for delineation. So what I have done is gone ahead and assigned this site an incident number. (NCS1826750131) please reference it for any additional communications and submittals.

OCD has granted BP an additional 60 days to submit the characterization report and or Closure Report no later than 12/7/2018.

If you have any additional questions please give me a call.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Steven Moskal <Steven.Moskal@BPX.COM>
Sent: Friday, September 14, 2018 1:50 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>
Cc: Blagg, Jefferey <jeffcblagg@aol.com>; 'blagg_njv@yahoo.com' <blagg_njv@yahoo.com>
Subject: Gallegos Canyon Unit 188E Groundwater Delineation Plan

Cory and Vanessa,

Attached is the plan to further delineate chloride impacts in groundwater that were obtained from an open excavation sample during a BGT closure. A hard copy will be delivered to your office later today.

Thank you,

Steve Moskal BP Lower 48 – San Juan Field Environmental Coordinator Phone: (505) 330-9179

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?	
🗌 Yes 🔳 No		
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
Not required.		
•		

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 <u>not</u> been undertaken, explain why:

Release not confirmed. Elevated chloride in groundwater will be addressed via delineation to determine if further action is required.

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:	Title:
Signature:	Date:
email:	Telephone:
OCD Only Received by:	Date:

Form C-141 Page 3 State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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?	5' (ft bgs)
Did this release impact groundwater or surface water?	Yes No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes 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?	Yes
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes No
Are the lateral extents of the release within 300 feet of a wetland?	Yes No
Are the lateral extents of the release overlying a subsurface mine?	Yes
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes
Are the lateral extents of the release within a 100-year floodplain?	Yes No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes 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.

Form C-141 Page 4	State of New Mexico Oil Conservation Division	Incident ID District RP Facility ID Application ID
regulations all operators are public health or the enviror failed to adequately investi	re required to report and/or file certain release not nment. The acceptance of a C-141 report by the 0 igate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature:		Date:
email:		Telephone:
OCD Only		
Received by:		Date:

Form C-141 Page 5

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State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

<u>Re</u> ediation 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 Proposed schedule for remediation (note if remediation plan time	
Deferral Requests Only: Each of the following items must be confi	rmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	
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 rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate a surface water, human health or the environment. In addition, OCD ac responsibility for compliance with any other federal, state, or local law	rtain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, ceptance of a C-141 report does not relieve the operator of
Printed Name: Steve Moskal	Title: Environmental Coordinator
Signature:	
email: Steven.moskal@bpx.com	Date: Telephone:
OCD Only	· · · · · · · · · · · · · · · · · · ·
Received by:	Date: <u>9/24/18</u>
Approved Approved with Attached Conditions of A	pproval 🗌 Denied 🗌 Deferral Approved
Signature:	Pate: 9/24/18

Form C-141 Page 6 State of New Mexico Oil Conservation Division

Incident ID	
District RP	
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: Title: Signature: Date: Telephone: email:

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:
Printed Name:	Title:

To:	Cory Smith, Vanessa Fields (NMOCD)
From:	Steve Moskal (BP)
Date:	9/14/2018
Re:	Gallegos Canyon Unit 188E – Groundwater Delineation Plan API#30-045-24171 (B) S30, T29N, R12W; Lat. 36.70254°, Long107.13715°

The Gallegos Canyon Unit (GCU) 188E site is an active natural gas production pad within the San Juan Basin Gas Field in San Juan County, New Mexico. The site is located in San Juan County on private land. Depth to groundwater is anticipated to be ~5' bgs (below ground surface). During a below grade tank (BGT) closure on June 29, 2018, groundwater was encountered at the base of the tank. A grab sample of the groundwater was collected from the open excavation with laboratory results for chloride above the New Mexico water quality standards. All other analyzed contaminants of concern were below lab detection limits. T here are no c oncerns for contaminations other than the elevated chloride. Due to the unconfirmed chloride concentrations and lateral extents, a volume of remediation is unknown.

GROUNDWATER DELINEATION PLAN

BP proposes to advance 3 soil boring to a maximum of 15 feet bgs; one in the center of the recently excavated area and one immediately downgradient and one upgradient of the excavation. The source well will determine if the sample collected from the open excavation during the BGT closure is representative of actual groundwater conditions. The up gradient well will determine background concentrations and the down gradient will determine if the suspected elevated chloride has migrated. The gradient was determined with the assumption that groundwater flows toward the adjacent San Juan River

The borings will be advanced using a minimum 4" (ID) hollow stem auger or other recommended tooling adequate to accommodate 2" PVC groundwater monitoring wells. In each boring, 2-inch PVC well screen will be placed in the lower 10 foot portion, likely from 15' bgs to 5' bgs. Each soil boring will be c ompleted with a blank (solid pipe) riser to the surface for completion as an aboveground monument. The base of the PVC is preferred to have a cone bottom or slip cap. Sand pack will be added t o the boring annulus to 1' above the screened interval. Hydrated bentonite or slurry will be placed in the remainder of the boring to 1' bgs where cement will be used to seal the surface and final surface completion. The well protectors will be lockable. The wells will be permitted through the New Mexico Office of the State Engineer Aztec Office by BP's consultant.

During advancement of the well borings, soil samples will be collected for confirmation. A soil sample will be collected every 5' or more frequent if possible. Three soil samples, will be collected from each boring, one from near the surface, one at the field determined groundwater interface, and one below the groundwater interface and all will be submitted for laboratory analysis, following handling and chain of custody protocols, for analysis 6010 or 300.0 chlorides. Field screening will not easily allow detection of chlorides and therefore will not be used.

Once the well installation is complete and allowed to sit for a minimum of 24 hours, the wells will be monitored for water. If no water is present, the wells will then be rechecked in approximately 2 weeks. If water is present, the wells will be developed via a bailing and purging with a new, disposable bailer used in each well. The wells will be purged for a minimum of 3 well volumes and where field screening for temperature, conductivity and pH become stable for a minimum of three

consecutive readings (within 10%). The purged water will be contained and disposed of in the nearby below grade tank.

The wells will then be allowed to sit for approximately 24 hours then purged of approximately three well volumes prior to sampling for General Water Chemistry via API General Chemistry methods (including pH, TDS, cations/anions), all following sample handling and chain of custody protocols.

Once lab results are obtained, BP will determine whether or not further delineation is required and will communicate with the NMOCD on a continued plan of action. F ollow up r eporting or delineation will be performed within 60 days of the groundwater lab analysis results.

Steve Moskal

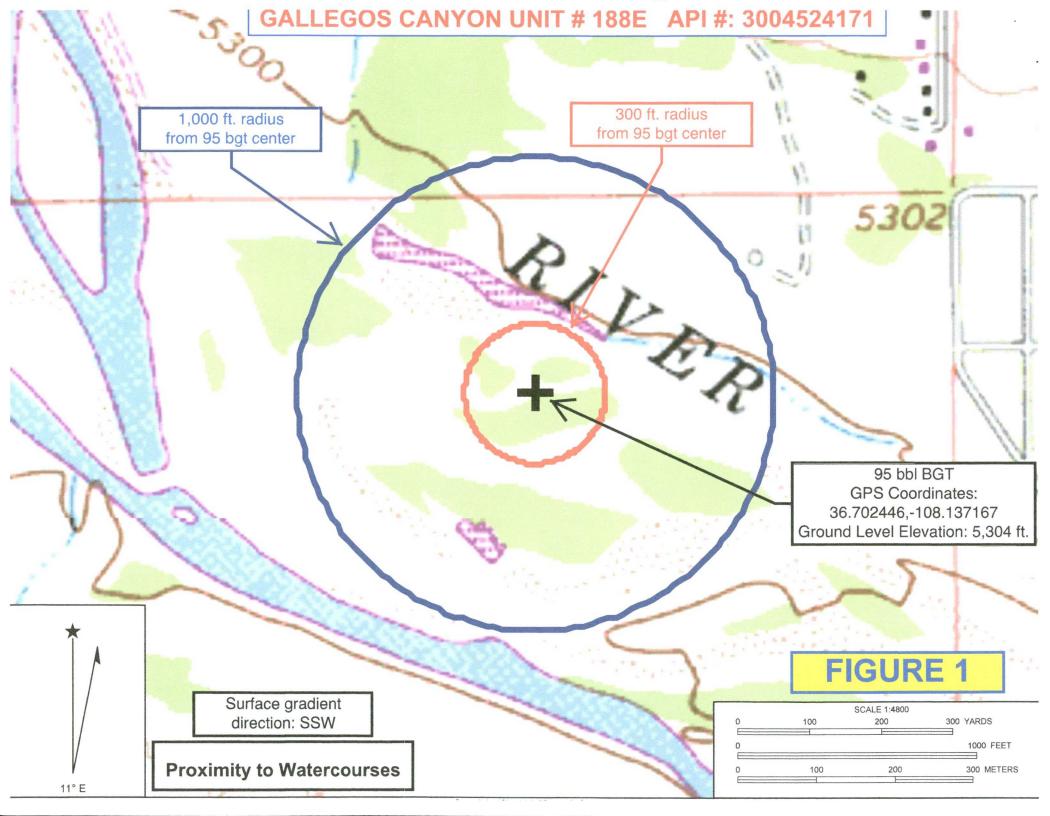
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Here Muy)

Environmental Coordinator

CLIENT: BP	BLAGG EN	GINEERING, INC.		API #: 3004524	171
CLIENT: DF		OOMFIELD, NM 874	13	TANK ID (if applicble):	
FIELD REPORT:	(circle one): BGT CONFIRMATION			PAGE #: 0	of 1
SITE INFORMATION	SITE NAME: GCU #1	88E		DATE STARTED: 06/2	29/18
QUAD/UNIT: B SEC: 30 TWP:	29N RNG: 12W PM:	NM CNTY: SJ ST:	NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 790'N / 1,62	D'E NW/NE LEASE TY	PE: FEDERAL / STATE FEE/ I	NDIAN	ENVIRONMENTAL	
LEASE #: -		STRIKE NTRACTOR: BP - J. GONZAL			JV
REFERENCE POINT				GL ELEV.: 5	5.304'
1) 95 BGT (DW/DB)					
2)					
3)				RING FROM W.H.:	
	GPS COORD.:		DISTANCE/BEAF	RING FROM W.H.:	
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # OR				OVM READING
1) SAMPLE ID:		And realized in the second structure of the spont with distance that the second structure is a second structure of the second	801	5B/8021B/300.0 (CI)	(ppm) NA
2) SAMPLE ID: GW @ 4.5' (9					NA
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANALYS	3IS:		
4) SAMPLE ID:					
5) SAMPLE ID: SOIL DESCRIPTION		SAMPLE TIME: LAB ANALYS		an an mile of the content of the particulation at the data of the base	
SOIL COLOR: DARK YEL COHESION (ALL OTHERS): NON COHESIVE SLIGHTL CONSISTENCY (NON COHESIVE SOILS): LC MOISTURE: DRY /SLIGHTLY MOIST MOIST / W SAMPLE TYPE: GRAB COMPOSITE # DISCOLORATION/STAINING OBSERVED: YES	Y COHESIVE / COHESIVE / HIGHLY COHESIVE / DENSE / VERY DENSE / VE	PLASTICITY (CLAYS): NON PLASTIC / SLIGHTI DENSITY (COHESIVE CLAYS & SILTS): S HC ODOR DETECTED: YES (NO) EXPLANA	OFT / FIRM /	STIFF / VERY STIFF / HARD	+LY PLASTIC
SITE OBSERVATION APPARENT EVIDENCE OF A RELEASE OBSERVE					
EQUIPMENT SET OVER RECLAIMED AREA: OTHER: <u>MMOCD REP. NOT PRESENT TO</u> SHARED WITH BP'S GCU #395.	YES NO EXPLANATION -		GED & ABA	ANDONED (P&A). WELL P	AD
EXCAVATION DIMENSION ESTIMATION	NA ft. X NA	ft. X NA ft. EXCA	VATION EST	TIMATION (Cubic Yards) :	NA
and an analysis of the same of the same and any day up had an analysis that a distant an interface that was produced	EAREST WATER SOURCE: <a>	NEAREST SURFACE WATER: >300' /	<1,000' N	MOCD TPH CLOSURE STD:	100 ppm
SITE SKETCH	PBGTL T.B.~5'	PLOT PLAN circle: atta			RF = 1.00 MA
	B.G.		R	EF #: P-1000	
FENCE	X	SEPARATOR		ID: VHIXONEVB2	·
FENCE	•x/	\land /	-	J #:	1/40
BERM	x GW GRAB S.P.D.			BGT Sidewalls Visible: Y /(1/12 ster N
		/ X - S.		BGT Sidewalls Visible: Y / BGT Sidewalls Visible: Y /	
	ON DEPRESSION; B.G. = BELOW GRADE; B = BEL .OW-GRADE TANK LOCATION; SPD = SAMPLE PO E.WALL; DW - DOUBLE WALL; SB - SINGLE BOTTO	INT DESIGNATION; R.W. = RETAINING WALL; NA -		agnetic declination: 10	
NOTES: GOOGLE EARTH IMAG	ERY DATE: 3/15/2015.	ONSITE: 06/29/18			

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BP - GCU 188E

(B) Section 30, T29N, R12W API#: 3004524171

Imagery date: 3/15/2015 WH GPS Coord.: 36.702654,-108.136745 95 BGT GPS Coord.: 36.702446,-108.137167 **FIGURE 2**

GCU 188E P&A

900 ft

0

Google Earth

© 2018 Google

BP - GCU 188E

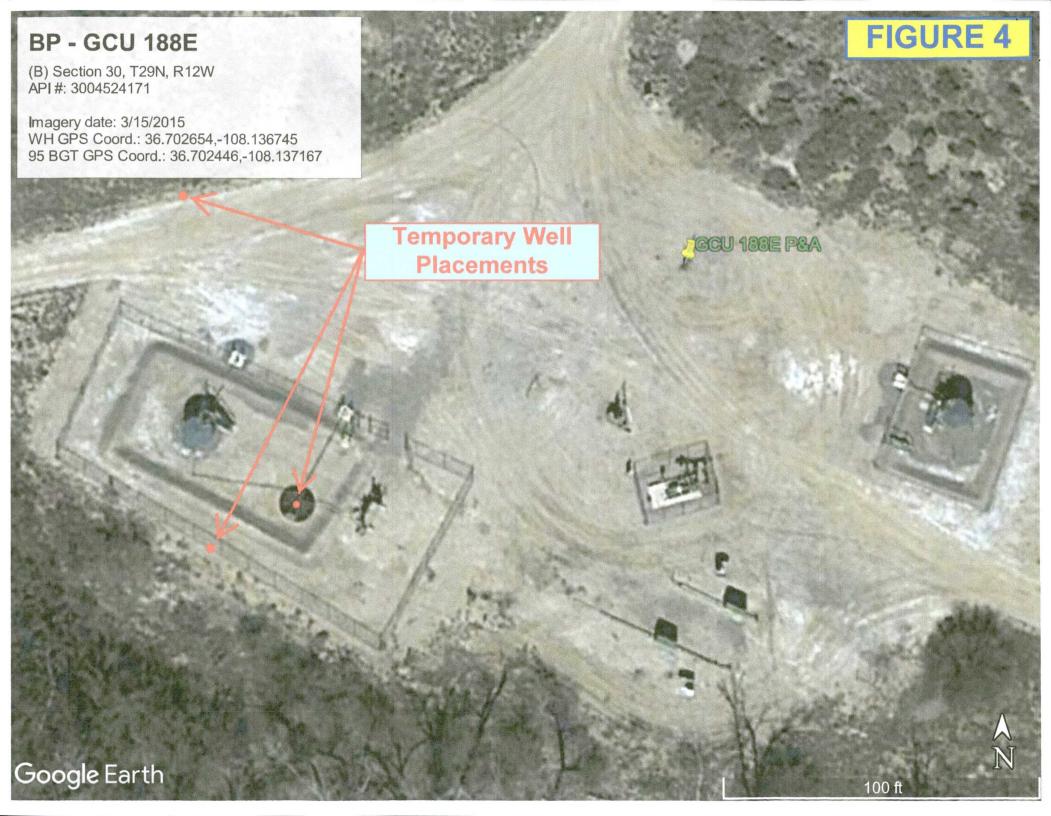
(B) Section 30, T29N, R12W API#: 3004524171

Imagery date: 3/15/2015 WH GPS Coord.: 36.702654,-108.136745 95 BGT GPS Coord.: 36.702446,-108.137167 FIGURE 3

CUINSSE PRA

300 ft





Analytical Report Lab Order 1806I42

Date Reported: 7/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: GCU 188E

1806142-001

Lab ID:

Client Sample ID: 4PC-SW @ 2 '-3' (95) Collection Date: 6/29/2018 11:10:00 AM Received Date: 6/30/2018 10:15:00 AM Matrix: MEOH (SOIL)

	IA. WILCH	(SOIL)	Received Date		0/2010 10:15:00 / 101	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	7/2/2018 11:31:08 AM	39003
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst:	AG
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	7/2/2018 11:56:23 AM	A52411
Surr: BFB	108	70-130	%Rec	1	7/2/2018 11:56:23 AM	A52411
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/2/2018 12:42:36 PM	38999
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/2/2018 12:42:36 PM	38999
Surr: DNOP	103	70-130	%Rec	1	7/2/2018 12:42:36 PM	38999
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst:	AG
Benzene	ND	0.017	mg/Kg	1	7/2/2018 11:56:23 AM	C5241
Toluene	ND	0.033	mg/Kg	1	7/2/2018 11:56:23 AM	C5241
Ethylbenzene	ND	0.033	mg/Kg	1	7/2/2018 11:56:23 AM	C5241
Xylenes, Total	ND	0.066	mg/Kg	1	7/2/2018 11:56:23 AM	C5241
Surr: 4-Bromofluorobenzene	122	70-130	%Rec	1	7/2/2018 11:56:23 AM	C5241
Surr: Toluene-d8	96.3	70-130	%Rec	1	7/2/2018 11:56:23 AM	C5241

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

Qualifiers:

*

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

Analytical Report Lab Order 1806142

Date Reported: 7/5/2018

Hall	Environ	mental	Analysis	Laboratory	Inc.

CLIENT: Blagg Engineering

GCU 188E

Project:

Client Sample ID: GW @ 4.5' (95) Collection Date: 6/29/2018 11:15:00 AM

Lab ID: 1806142-002 Matrix: AOUEOUS Received Date: 6/30/2018 10:15:00 AM Result **PQL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA 100 7/2/2018 1:47:21 PM Chloride 680 50 mg/L R52416 EPA METHOD 8260B: VOLATILES Analyst: DJF 1.0 Benzene ND 7/2/2018 12:01:16 PM W52404 µg/L 1 Toluene ND 1.0 1 7/2/2018 12:01:16 PM W52404 µg/L Ethylbenzene ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 Methyl tert-butyl ether (MTBE) ND 1.0 7/2/2018 12:01:16 PM W52404 µg/L 1 1,2,4-Trimethylbenzene ND 1.0 7/2/2018 12:01:16 PM W52404 µg/L 1 1,3,5-Trimethylbenzene ND 1.0 W52404 µg/L 1 7/2/2018 12:01:16 PM 1,2-Dichloroethane (EDC) ND W52404 10 µg/L 1 7/2/2018 12:01:16 PM 1,2-Dibromoethane (EDB) ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 Naphthalene ND 2.0 µg/L 1 7/2/2018 12:01:16 PM W52404 1-Methylnaphthalene 4.0 ND µg/L 1 7/2/2018 12:01:16 PM W52404 2-Methylnaphthalene ND 4.0 1 7/2/2018 12:01:16 PM W52404 µg/L Acetone ND 10 µg/L 1 7/2/2018 12:01:16 PM W52404 Bromobenzene ND 10 µg/L 1 7/2/2018 12:01:16 PM W52404 Bromodichloromethane ND 1.0 1 W52404 µg/L 7/2/2018 12:01:16 PM Bromoform ND 1.0 1 7/2/2018 12:01:16 PM W52404 µg/L Bromomethane ND 3.0 µg/L 1 7/2/2018 12:01:16 PM W52404 2-Butanone ND 10 µg/L 1 7/2/2018 12:01:16 PM W52404 Carbon disulfide ND 10 µg/L 1 7/2/2018 12:01:16 PM W52404 Carbon Tetrachloride ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 Chlorobenzene ND 7/2/2018 12:01:16 PM 10 1 W52404 µg/L Chloroethane ND 2.0 µq/L 1 7/2/2018 12:01:16 PM W52404 Chloroform ND 1.0 7/2/2018 12:01:16 PM µg/L 1 W52404 Chloromethane ND 3.0 µg/L 1 7/2/2018 12:01:16 PM W52404 2-Chlorotoluene ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 4-Chlorotoluene ND 1.0 7/2/2018 12:01:16 PM W52404 µg/L 1 cis-1.2-DCE ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 cis-1,3-Dichloropropene ND 1.0 7/2/2018 12:01:16 PM W52404 µg/L 1 1,2-Dibromo-3-chloropropane 2.0 ND µg/L 1 7/2/2018 12:01:16 PM W52404 Dibromochloromethane ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 Dibromomethane ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 1,2-Dichlorobenzene ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 1.3-Dichlorobenzene ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 1,4-Dichlorobenzene ND 1.0 W52404 µg/L 1 7/2/2018 12:01:16 PM Dichlorodifluoromethane ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 1.1-Dichloroethane ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 1,1-Dichloroethene ND 1.0 µg/L 1 7/2/2018 12:01:16 PM W52404 1,2-Dichloropropane ND 1.0 7/2/2018 12:01:16 PM W52404 µg/L 1

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

*	Value exceeds	Maximum	Contaminant	Level.

D Sample Diluted Due to Matrix

Qualifiers:

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 Page 2 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1806I42

Date Reported: 7/5/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: GCU 188E

1806I42-002

Lab ID:

Client Sample ID: GW @ 4.5' (95) Collection Date: 6/29/2018 11:15:00 AM Received Date: 6/30/2018 10:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst	DJF
1,3-Dichloropropane	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
2,2-Dichloropropane	ND	2.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
1,1-Dichloropropene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
Hexachlorobutadiene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
2-Hexanone	ND	10		µg/L	1	7/2/2018 12:01:16 PM	W52404
Isopropylbenzene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
4-Isopropyltoluene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
4-Methyl-2-pentanone	ND	10		µg/L	1	7/2/2018 12:01:16 PM	W52404
Methylene Chloride	ND	3.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
n-Butylbenzene	ND	3.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
n-Propylbenzene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
sec-Butylbenzene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
Styrene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
tert-Butylbenzene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
trans-1,2-DCE	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
Trichlorofluoromethane	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
Vinyl chloride	ND	1.0		µg/L	1	7/2/2018 12:01:16 PM	W52404
Xylenes, Total	ND	1.5		µg/L	1	7/2/2018 12:01:16 PM	W52404
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	7/2/2018 12:01:16 PM	W52404
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	7/2/2018 12:01:16 PM	W52404
Surr: Dibromofluoromethane	93.7	70-130		%Rec	1	7/2/2018 12:01:16 PM	W52404
Surr: Toluene-d8	104	70-130		%Rec	1	7/2/2018 12:01:16 PM	W52404

Matrix: AQUEOUS

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

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 Quanitative 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 Page 3 of 11
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

C	naın-o	ot-Cus	stody Record	Turn-Around T	ime:	SAME].			ŀ	-		F	NI\	/TE	20	RI	ME	NT	A1	
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	Rush _	DAY)			Ę									RA			
				Project Name:											nme						
Mailing A	ddress:	P.O. BO	X 87	1	GCU #18	8E		49	01 H									37109	l		
		BLOOM	FIELD, NM 87413	Project #:	and the second						45-3				505						
Phone #:		(505) 63	32-1199	1								ļ	Anal	ysis	Red	ques	st				
email or F	ax#:			Project Manag	ier:									÷				1)	Τ	Τ	
QA/QC Pa	-		Level 4 (Full Validation)		ERIN GARI	FALOS	(80218)	only)	MRO)			1S)		PO4,SO	PCB's			er - 300.1)			e
Accreditat	tion:			Sampler:	NELSON VI	ELEZ	- (8)	(Gas	RO /	1)	1)	NISC		102,1	/ 8082			/ water			sample
	Contraction of the local division of the loc	C Other		On lee:		10. No		HdT	0/0	418.	504	8270SIMS)	S	03, 1	ss/s		(YC	300.0 /			
	Гуре)	1		Sample Tempe	erature: 3.9		*	BE +	(GR(pou	poq	5	8 Metals	CI,N	icide	(A)	η-ir		4	ple	0021
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO 18000I4Z	BTEX +MT	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	RCRA 8 M	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil	mer dar	Grab sample	5 pt. composite
6/29/18	1110	SOIL	4PC - SW @ 2'- 3' (95)	4 oz 1	Cool	-001	٧		۷									V	T	1	V
с.)																					1
6/29/18	1115	WATER	GW @ 4.5' (95)	40 ml VOA - 2	HCI & Cool	-002										٧			1	1	1
6/29/18	1115	WATER	GW @ 4.5' (95)	500 ml - 1	Cool													V	1	1	Τ
																					Τ
																					Τ
Ghimmer er Ghimmer er Pringhanne																					Τ
																				-	Τ
Date:	Time:	Relinquishe	ed by	Received by:		Date Time	Rem	arks		and the second se	and the second se	and the second second	and the second se	Sector of the local division of the	THE	and the second se	ACTV	WITH CO	RRESP	ONDI	ING V
6/29/18	100	1.	my	/ hriste	.Wet	6/29/18 1700	с		ACT:	ERIN	GA	RIFA	LOS		NCE		DN				
Date:	Time:	Relinquishe	U.	Received by:	1	Date Time 1015					ONI										
-129/18	1856	n	to Walto	1/h	5	(4/30/18	Ret	eren	ce #		P - 1	000	-								

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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This source as a first of the

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Client: Project:		g Engineering 188E									
Sample ID	MB-39003	SampT	ype: mb	olk	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 39	003	F	RunNo: 5	2405				
Prep Date:	7/2/2018	Analysis Da	ate: 7/	2/2018	S	SeqNo: 1	719465	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-39003	SampT	ype: Ics	;	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 39	003	F	RunNo: 5	2405				
Prep Date:	7/2/2018	Analysis Da	ate: 7/	2/2018	5	SeqNo: 1	719466	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.1	90	110			

Qualifiers:

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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: **1806I42** *05-Jul-18*

WO#:	1806142
	05-Jul-18

Client: Project:	Blagg Engineering GCU 188E
Sample ID MB	SampType: mblk TestCode: EPA Method 300.0: Anions
Client ID: PBW	Batch ID: R52416 RunNo: 52416
Prep Date:	Analysis Date: 7/2/2018 SeqNo: 1719798 Units: mg/L
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 0.50
Sample ID LCS	SampType: Ics TestCode: EPA Method 300.0: Anions
Client ID: LCSW	Batch ID: R52416 RunNo: 52416
Prep Date:	Analysis Date: 7/2/2018 SeqNo: 1719799 Units: mg/L
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	4.6 0.50 5.000 0 92.5 90 110

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Client: Blagg Engineering Project: GCU 188E

Sample ID MB-38999	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 38999	RunNo: 52397						
Prep Date: 7/2/2018	Analysis Date: 7/2/2018	SeqNo: 1718308	Units: mg/Kg					
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLin	nit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	ND 10							
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	9.7 1	0.00 96.7	70 130					
Sample ID LCS-38999	SampType: LCS	TestCode: EPA Meth	nod 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 38999	RunNo: 52397						
Prep Date: 7/2/2018	Analysis Date: 7/2/2018	SeqNo: 1718309	Units: mg/Kg					
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLin	nit HighLimit %RPD RPDLimit Qual					
Diesel Range Organics (DRO)	46 10 5	0.00 0 92.8	70 130					
Surr: DNOP	4.7 5	.000 93.3	70 130					
Sample ID MB-38981	SampType: MBLK	TestCode: EPA Meti	nod 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: 38981	RunNo: 52397						
Prep Date: 6/29/2018	Analysis Date: 7/2/2018	SeqNo: 1719410	Units: %Rec					
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLin	nit HighLimit %RPD RPDLimit Qual					
Surr: DNOP	10 1	0.00 102	70 130					
Sample ID LCS-38981	SampType: LCS	TestCode: EPA Meth	nod 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch ID: 38981	RunNo: 52397						
Prep Date: 6/29/2018	Analysis Date: 7/2/2018	SeqNo: 1719411	Units: %Rec					
Analyte	Result PQL SPK v	alue SPK Ref Val %REC LowLi	nit HighLimit %RPD RPDLimit Qual					
Surr: DNOP	4.7 5	.000 94.2	70 130					

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

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WO#: **1806I42** *05-Jul-18*

Client: Project: Blagg Engineering GCU 188E

Sample ID 100ng btex Ics	SampT	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batcl	Batch ID: C52411 RunNo: 52411								
Prep Date:	Analysis D	Date: 7/	2/2018	S	SeqNo: 1	718288	Units: mg/k	٢g		
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	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.5	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			
Sample ID rb	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: PBS	Batch	n ID: C5	2411	R	RunNo: 5	2411				
Prep Date:	Analysis D	ate: 7/	2/2018	S	SeqNo: 1	718297	Units: mg/K	٢g		
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	0.59		0.5000		117	70	130			
Surr: 4-Bromofluorobenzene Surr: Toluene-d8	0.59 0.50		0.5000 0.5000		117 99.6	70 70	130 130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

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WO#: **1806I42** *05-Jul-18*

Client: Project: Blagg Engineering GCU 188E

Project: 0001	IOOE								
Sample ID rb	SampTy	De: MBLK	Tes	tCode: EPA Metho	od 8260B: VOL	ATILES			
Client ID: PBW	Batch I	D: W52404	RunNo: 52404						
Prep Date:	Analysis Dat	te: 7/2/2018	S	SeqNo: 1718775					
Analyte	Result	PQL SPK value	e SPK Ref Val	%REC LowLim	it HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0							
Toluene	ND	1.0							
Ethylbenzene	ND	1.0							
Methyl tert-butyl ether (MTBE)	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
1,2-Dichloroethane (EDC)	ND	1.0							
1,2-Dibromoethane (EDB)	ND	1.0							
Naphthalene	ND	2.0							
1-Methylnaphthalene	ND	4.0							
2-Methylnaphthalene	ND	4.0							
Acetone	ND	10							
Bromobenzene	ND	1.0							
Bromodichloromethane	ND	1.0							
Bromoform	ND	1.0							
Bromomethane	ND	3.0							
2-Butanone	ND	10							
Carbon disulfide	ND	10							
Carbon Tetrachloride	ND	1.0							
Chlorobenzene	ND	1.0							
Chloroethane	ND	2.0							
Chloroform	ND	1.0							
Chloromethane	ND	3.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
cis-1,2-DCE	ND	1.0							
cis-1,3-Dichloropropene	ND	1.0							
1,2-Dibromo-3-chloropropane	ND	2.0							
Dibromochloromethane	ND	1.0							
Dibromomethane	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
Dichlorodifluoromethane	ND	1.0							
1,1-Dichloroethane	ND	1.0							
1,1-Dichloroethene	ND	1.0							
1,2-Dichloropropane	ND	1.0							
1,3-Dichloropropane	ND	1.0							
2,2-Dichloropropane	ND	2.0							

Qualifiers:

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- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1806142

Client: Project:

.

Blagg Engineering GCU 188E

Hiere Date:Batch ID:W52404Run N: 52404Num: 52404 <t< th=""><th>110jeet. 600 h</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	110jeet. 600 h										
TAI22018SeqN: 1718775Units: \mug/L nalyteResultPQLSPK valueSPK ref Val%RECLowLimitHighLimit%RPDRPDLimitQualDichloropropeneND1.0QualQ	Sample ID rb	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8260B: VOLATILES					
nalyte Result POL SPK value SPK ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Dichloroproprine ND 1.0	Client ID: PBW	Batch ID: W52404			F	RunNo: 5					
Dickloropropene ND 1.0 vachlorobutaldiene ND 1.0 vachlorobutaldiene ND 1.0 propylbenzene ND 1.0 sportoryblemzene ND 1.0 sportoryblemzene ND 3.0 thylybenchloreb ND 3.0 typigbenzene ND 1.0 velktybenzene ND 1.0 teachlorobtane ND 1.0 1,2-2 Tetachlorobtane ND 1.0 1,2-1 Totholorophane ND <td>Prep Date:</td> <td>Analysis D</td> <td>ate: 7/</td> <td>2/2018</td> <td>S</td> <td>SeqNo: 1</td> <td>718775</td> <td>Units: µg/L</td> <td></td> <td></td> <td></td>	Prep Date:	Analysis D	ate: 7/	2/2018	S	SeqNo: 1	718775	Units: µg/L			
xxxx10robutzdiene ND 1.0 feanone ND 1.0 sepropyloperzene ND 1.0 sapropylopune ND 1.0 sepropylopune ND 1.0 sepropylopune ND 3.0 Propylopune ND 3.0 Propylopune ND 1.0 Solutybenzene ND 1.0 Propylopune ND 1.0 Solutybenzene ND 1.0 Fearbinopethane ND 1.0 Solutybenzene ND 1.0 1.2.2 Fearbinopethane ND 1.0 1.2.2 Fearbinopethane ND 1.0 1.2.2 Fearbinopethane ND 1.0 1.2.2 Fearbinopethane ND 1.0 1.3.7 Fichtoroponpene ND 1.0 2.4.7 frichtorethane ND 1.0 2.4.7 frichtorethane ND 1.0 2.5.7 frichtorethane ND 1.0 2.5.7 frichtorethane ND	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
teanone ND 10 propylotazene ND 1.0 sopropylotazene ND 1.0 veltyl-2-pentanone ND 3.0 veltyl-2-pentanone ND 1.0 Veltyl-Dinoroebnane ND 1.	1,1-Dichloropropene	ND	1.0								
propribenzene ND 1.0 spropriblenzene ND 1.0 dktlyh2-partinane ND 3.0 Propribenzene ND 3.0 Propribenzene ND 1.0 Subjenzene ND 1.0 Propribenzene ND 1.0 Subjenzene ND 1.0 Propribenzene ND 1.0 Subjenzene ND 1.0 Frachonoethane ND 2.0 Statisticorethane ND 1.0 1,2.7 Erdachloroethane ND 1.0 Statisticorethane ND 1.0 2,3.1 richicorethane ND 2.0 2,3.1 richicorethane ND 1.0	Hexachlorobutadiene	ND	1.0								
sapropylloluene ND 1.0 Vedhyl-zpentanone ND 10 Vedhyl-zpentanone ND 3.0 Bauylbenzene ND 3.0 Bauylbenzene ND 1.0 Vergenzene ND 1.0 Vergenzenen ND 1.0 <td>2-Hexanone</td> <td>ND</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	2-Hexanone	ND	10								
Wethyl-2-pentanone ND 10 thyligen Chloride ND 3.0 ythyligenzene ND 1.0 Propylbenzene ND 1.0 Seduylbenzene ND 1.0 Vergene ND 1.0 Vergene ND 1.0 Vergene ND 1.0 1,1,2-Tetrachioroethane ND 2.0 1,2,2-Tetrachioroethane ND 1.0 2,4-Tricholoroethane ND 1.0 1,4,1-Trichloroethane ND 1.0 2,3-Trichlorophane ND 1.0 2,3-Trichlorophane-MD 1.0 1.0 2,3-Trichlorophane-MD 1.0 1.0 1,0,	Isopropylbenzene	ND	1.0								
thylene Chloride ND 3.0 Julybenzene ND 3.0 Propylbenzene ND 1.0 Studybenzene ND 1.0 Studybenzene ND 1.0 Studybenzene ND 1.0 Halytionzene ND 1.0 Halytionzene ND 1.0 1,2-Tetrachloroethane ND 1.0 1,2-Tetrachloroethane ND 1.0 1,2-Tetrachloroethane ND 1.0 -1,2-Tetrachloroethane ND 1.0 -1,2-Tetrachloroethane ND 1.0 -1,2-Tichlorophane ND 1.0 -1,1-Tichloroethane ND 1.0 -1,2-Tichloroethane ND 1.0 -1,2-Tichloroethane-d4 9.3 70 130 Surr: 12-Dichloroethane-d4 9.3 10.0 87.6 70 130<	4-Isopropyltoluene	ND	1.0								
Buly benzene ND 3.0 Prog/benzene ND 1.0 CBuly benzene ND 1.0 CBuly benzene ND 1.0 Prog/benzene ND 1.0 Eduy benzene ND 1.0 L1,2 Tetrachloroethane ND 2.0 L1,2 Tetrachloroethane ND 1.0 L2.2 Tetrachloroethane ND 1.0 L3.2 Tetrachloroethane ND 1.0 Strickloroethane ND 1.0 L3.2 Tetrachloroethane ND 1.0 L3.3 Chickloropropene ND 1.0 L3.3 Chickloropropene ND 1.0 L4.1 Tetrachoroethane ND 1.0 L3.2 Trickloroethane ND 1.0 L4.2 Trickloroethane ND 1.0 L4.1 Tetrachoroethane ND 1.0 L3.1 Chickloroethane ND 1.0 L4.2 Trickloroethane ND 1.0 Strickloroethane-dla ND 1.0 S	4-Methyl-2-pentanone	ND	10								
Prop/lbenzene ND 1.0 Sebuy/benzene ND 1.0 Vergene ND 1.0 Vergene ND 1.0 Vergene ND 1.0 Vergene ND 1.0 1,12-Tetrachloroethane ND 2.0 Vergene ND 1.0 1,2.2-Tetrachloroethane ND 2.0 Vergene ND 1.0 1,2.2-Tetrachloroethane ND 1.0 Vergene ND 1.0 2.3-Trichloroethane ND 1.0 2.3-Trichloroethane ND 1.0 2.4-Trichloroethane ND 1.0 1,1-Trichloroethane ND 1.0 2.3-Trichloroethane ND 1.0 1,2-Trichloroethane ND 1.0 1,2-Trichloroethane ND 1.0 1,2-Trichloroethane-4 ND 1.0 2,3-Trichloroethane-4 ND 1.0 Surr: 1,2-Dichloroethane-4/4 9.3 <td< td=""><td>Methylene Chloride</td><td>ND</td><td>3.0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Methylene Chloride	ND	3.0								
ND 1.0 rene ND 1.0 H3utylibenzene ND 1.0 H3utylibenzene ND 1.0 H3utylibenzene ND 1.0 1,22-Tetrachloroethane ND 2.0 1,22-Tetrachloroethane ND 1.0 ns.1,2-DCE ND 1.0 s.1.3-Dichloroptopene ND 1.0 2,3-Trichloroethane ND 1.0 1,1-Trichloroethane ND 1.0 2,3-Trichloroptopene ND 1.0 2,3-Trichloroethane ND 1.0 2,1-Trichloroethane ND 1.0 2,1-Trichloroethane ND 1.0 2,3-Trichloroethane ND 1.0 2,3-Trichloroethane ND 1.0 2,3-Trichloroethane ND 1.0 2,3-Trichloroethane ND 1.0 2,3-Trichloroethane-44 9.3 10.00 93.0 70 130 Surr: 12-Dichloroethane-44 9.3 10.00 93.0 70 130 Surr: 12-Dichloroethane-48	n-Butylbenzene	ND	3.0								
rene ND 1.0 Helytipherane ND 1.0 Helytipherane ND 1.0 L1,2-Tetrachtorethane ND 2.0 L1,2-Tetrachtorethane ND 1.0 L2-Tetrachtorethane ND 1.0 trachloroethane ND 1.0 Strachloroethane ND 1.0 L2-Trichloroethane ND 1.0 Strachloroethane ND 1.0 L2-Trichloroethane ND 1.0 Strachloroethane-(TCE) ND 1.0 1.0 Strachloroethane-MD 1.0 1.0 1.3 1.3 Str	n-Propylbenzene	ND	1.0								
Headylbenzene ND 1.0 1,12-Tetrachloroethane ND 1.0 1,22-Tetrachloroethane ND 2.0 trachloroethane ND 1.0 1,22-Tetrachloroethane ND 1.0 rachloroethane ND 1.0 rachloroethane ND 1.0 ns-1,2-DCE ND 1.0 ,3.Trichlorobenzene ND 1.0 ,4.Trichloroethane ND 1.0 ,1.2.Trichloroethane ND 1.0 ,2.Trichloroethane ND 1.0 ,2.Trichloroethane ND 1.0 ,2.Trichloroethane-44 9.3 10.00 93.0 70 130 Sur: 1/2.Dichloreethane-34 10 10.00 87.6 70 130 Sur: Toluene-48 10 10.00 87.6	sec-Butylbenzene	ND	1.0								
I,1,2-Tetrachloroethane ND 1.0 1,2,2-Tetrachloroethane ND 2.0 trachloroethane (PCE) ND 1.0 ns.1,2-DCE ND 1.0 s.1,3-Dichloroptopene ND 1.0 2,3-Trichlorobenzene ND 1.0 2,3-Trichlorobenzene ND 1.0 2,1-Trichloroethane ND 1.0 1,1,1-Trichloroethane ND 1.0 1,2,2-Trichloroptopane ND 1.0 1,2,1-Trichloroethane ND 1.0 1,2,2-Trichloroethane ND 1.0 1,2,2-Trichloroethane ND 1.0 1,2,2-Trichloroethane ND 1.0 1,2,2-Trichloroethane ND 1.0 2,3-Trichloroppane ND 1.0 2,3-Trichloroppane ND 1.0 Sur: 1,2-Dichloroethane-d4 9.3 10.00 93.0 70 130 Sur: 2-Dichloroethane-d4 9.3 10.00 87.6 70 130 Sur: 2-Dichloroethane-d8 10 10.00 87.6 70 130	Styrene	ND	1.0								
1,2.2-Tetrachloroethane (PCE) ND 2.0 trachloroethane (PCE) ND 1.0 ns-1,2-DCE ND 1.0 ns-1,2-DCE ND 1.0 ns-1,2-DCE ND 1.0 strichloropropene ND 1.0 2,4-Trichlorobenzene ND 1.0 2,4-Trichlorobenzene ND 1.0 2,4-Trichlorobenzene ND 1.0 2,1,1-Trichlorobenzene ND 1.0 2,1,2-Trichlorobenzene ND 1.0 2,1,2-Trichlorobenzene ND 1.0 2,1,2-Trichlorobenzene ND 1.0 2,3-Trichloropropane ND 1.0 2,3-Trichloropropane ND 1.0 2,3-Trichlorobenzene 1.0 2.0 2,3-Trichlorobenzene ND 1.0 2,3-Trichloropropane ND 1.0 2,3-Trichlorobenzene ND 1.0 Sur: 1,2-Dichlorobenzene 1.0 93.0 70 130 Sur: 1,2-Dichlorobenzene 1.0 87.6 70 130 Sur: Toluen	tert-Butylbenzene	ND	1.0								
trachloroethene (PCE) ND 1.0 ns-1,2-DCE ND 1.0 2,3-Trichlorobenzene ND 1.0 2,3-Trichlorobenzene ND 1.0 2,4-Trichloroethane ND 1.0 1,2-Trichloroethane ND 1.0 1,2-Trichloroethane ND 1.0 2,2-Trichloroethane ND 1.0 2,3-Trichloropropane ND 2.0 chloroethane ND 1.0 2,3-Trichloropropane ND 2.0 chloroethane ND 1.0 2,3-Trichloropropane ND 2.0 strin 1,2-Dichloroethane ND 1.0 3,3-Trichloropropane ND 2.0 strin 1,2-Dichloroethane 4 9.3 3,10.00 93.0 70 130 3,3	1,1,1,2-Tetrachloroethane	ND	1.0								
ns-1,2-DCE ND 1.0 ns-1,3-Dichloropropene ND 1.0 ,3-Trichlorobenzene ND 1.0 ,4-Trichlorobenzene ND 1.0 ,4-Trichlorobenzene ND 1.0 ,1.1-Trichloroethane ND 1.0 ,2-Trichloroethane ND 1.0 ,2-Trichloroethane ND 1.0 ,2-Trichloropropane ND 2.0 chlorofhuoromethane ND 1.0 ,3-Trichloropropane ND 2.0 stars 1,2-Dichloroethane-d4 9.3 Surr. 1,2-Dichloroethane-d4 9.3 Surr. 1,2-Dichloroethane 8.8 10.00 10. 10. 10.0 10. 10.0 10. 10.0 10. 10.0 10. 10.0 10. 10.0 10. 10.0 10. 10.0 10. 10.0	1,1,2,2-Tetrachloroethane	ND	2.0								
ns-1,2-DCE ND 1.0 ns-1,3-Dichloropropene ND 1.0 ,3-Trichlorobenzene ND 1.0 ,4-Trichlorobenzene ND 1.0 ,4-Trichlorobenzene ND 1.0 ,1.Trichloroethane ND 1.0 ,2-Trichloroethane ND 1.0 ,2-Trichloroethane ND 1.0 ,2-Trichloropropane ND 2.0 chloroftuoromethane ND 1.0 ,3-Trichloropropane ND 2.0 stars 1,2-Dichloroethane-d4 9.3 Surr. 1,2-Dichloroethane 49.3 Surr.	Tetrachloroethene (PCE)	ND	1.0								
ND 1.0 2.4-Trichlorobenzene ND 1.0 2.4-Trichlorobenzene ND 1.0 1,1-Trichlorobenzene ND 1.0 1,2-Trichlorobenzene ND 1.0 1,2-Trichlorobenzene ND 1.0 1,2-Trichlorobenzene ND 1.0 1,2-Trichlorobenzene ND 1.0 2,3-Trichlorobenzene ND 1.0 Sur: 1,2-Dichlorobenzene 1.0 93.0 70 130 Sur: 1,2-Dichlorobenzene 12 10.00 87.6 70 130 Sur: Tolbeno-d8 10 10.00 87.6 70 130 100 Sur: Tolbeno-d8 10 10.00 104 70 130 100 100 stample ID 100ng Icsb SampType: ICS TestCode: EPA Method 8260B: VOLATILES	trans-1,2-DCE	ND	1.0								
ND 1.0 2.4-Trichlorobenzene ND 1.0 2.4-Trichlorobenzene ND 1.0 1,1-Trichlorobenzene ND 1.0 1,2-Trichlorobenzene ND 1.0 1,2-Trichlorobenzene ND 1.0 1,2-Trichlorobenzene ND 1.0 1,2-Trichlorobenzene ND 1.0 2,3-Trichlorobenzene ND 1.0 Sur: 1,2-Dichlorobenzene 1.0 93.0 70 130 Sur: 1,2-Dichlorobenzene 12 10.00 87.6 70 130 Sur: Tolbeno-d8 10 10.00 87.6 70 130 100 Sur: Tolbeno-d8 10 10.00 104 70 130 100 100 stample ID 100ng Icsb SampType: ICS TestCode: EPA Method 8260B: VOLATILES	trans-1,3-Dichloropropene	ND	1.0								
ND 1.0 1,2-Trichloroethane ND 1.0 1,2-Trichloroethane ND 1.0 chloroethane (TCE) ND 1.0 chloroethane ND 1.0 chloroethane ND 1.0 chloroethane ND 1.0 2,3-Trichloropropane ND 2.0 nyl chloride ND 1.0 lenes, Total ND 1.5 Surr: 1,2-Dichloroethane-d4 9.3 10.00 93.0 70 130 Surr: 4-Bromofluorobenzene 12 10.00 116 70 130 Surr: Dibromofluoromethane 8.8 10.00 87.6 70 130 Surr: Dibromofluoromethane 8.8 10.00 104 70 130 Surr: Dibromofluoromethane Batch ID: V52404<	1,2,3-Trichlorobenzene	ND	1.0								
I.2Trichloroethane ND 1.0 chloroethane (TCE) ND 1.0 chlorofluoromethane ND 1.0 2,3-Trichloropropane ND 2.0 ND 1.0 2.0 vichlorofluoromethane ND 1.0 2,3-Trichloropropane ND 2.0 nyl chloride ND 1.0 lenes, Total ND 1.5 Surr: 1,2-Dichloroethane-d4 9.3 10.00 93.0 70 130 Surr: 1,2-Dichloroethane-d4 9.3 10.00 87.6 70 130 Surr: 1,2-Dichloroethane-d4 9.3 10.00 87.6 70 130 Surr: 1,2-Dichloroethane-d4 9.3 10.00 87.6 70 130 1000 104 70 130 1000 104 70 130 1000 104 70 130 1000 101 70 130 1000 101 70 130 1000 101 70 130 1000 101 70 130 1000 101 70 130 <	1,2,4-Trichlorobenzene	ND	1.0								
ND 1.0 chloroethene (TCE) ND 1.0 chloroethane ND 1.0 chloroethane ND 1.0 2,3-Trichloropropane ND 2.0 vjl chloride ND 1.0 enes, Total ND 1.5 Sur: 1,2-Dichloroethane-d4 9.3 10.00 93.0 70 130 Sur: 4-Bromofluorobenzene 12 10.00 116 70 130 Sur: 12-Dichloroethane-d4 9.3 10.00 87.6 70 130 Sur: 12-Dichloroethane-d4 9.3 10.00 87.6 70 130 Sur: Toluene-d8 10 10.00 104 70 130 Sur: Toluene-d8 10 10.00 104 70 130 Amalysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Innalyte Result PQL SPK Nalue SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual </td <td>1,1,1-Trichloroethane</td> <td>ND</td> <td>1.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1,1,1-Trichloroethane	ND	1.0								
ND 1.0 2,3-Trichloropropane ND 2.0 ND 1.0 1,2-Dichloropropane ND 1.5 Surr: 1,2-Dichloropethane-d4 9.3 10.00 93.0 70 130 Surr: 4-Bromofluorobenzene 12 10.00 116 70 130 Surr: 12-Dichloropethane-d4 9.3 10.00 87.6 70 130 Surr: 12-Dichloropethane 8.8 10.00 87.6 70 130 Surr: 10ibromofluoromethane 8.8 10.00 104 70 130 Surr: Toluene-d8 10 10.00 104 70 130 strine ID 100ng Icsb SampType: LCS TestCode: EPA Method 8260B: VOLATILES strient ID: LCSW Batch ID: W52404 RunNo: 52404 RunNo: 52404 rrep Date: Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual inzene 20 1.0 20.00	1,1,2-Trichloroethane	ND	1.0								
ND 2.0 nyl chloride ND 1.0 lenes, Total ND 1.5 Surr: 1,2-Dichloroethane-d4 9.3 10.00 93.0 70 130 Surr: 4-Bromofluorobenzene 12 10.00 87.6 70 130 Surr: 10ibromofluoromethane 8.8 10.00 87.6 70 130 Surr: Toluene-d8 10.00 87.6 70 130 10.00 10.4 70 130 Surr: Toluene-d8 10.00 87.6 70 130 10.00 10.4 70 130 Surr: Toluene-d8 10.00 10.00 10.4 70 130 10.00	Trichloroethene (TCE)	ND	1.0								
ND 1.0 lenes, Total ND 1.5 Surr: 1,2-Dichloroethane-d4 9.3 10.00 93.0 70 130 Surr: 4-Bromofluorobenzene 12 10.00 116 70 130 Surr: 52404 9.3 10.00 87.6 70 130 Surr: 4-Bromofluorobenzene 12 10.00 87.6 70 130 Surr: Toluene-d8 10 10.00 104 70 130 Surr: Toluene-d8 10 10.00 104 70 130 Stient ID: LCSW Batch ID: W52404 RunNo: 52404 SeqNo: 1718776 Units: µg/L Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Qual mzene 20 1.0 20.00 0 101 70 130 Iuene <td>Trichlorofluoromethane</td> <td>ND</td> <td>1.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Trichlorofluoromethane	ND	1.0								
ND 1.5 Surr: 1,2-Dichloroethane-d4 9.3 10.00 93.0 70 130 Surr: 4-Bromofluorobenzene 12 10.00 116 70 130 Surr: Dibromofluoromethane 8.8 10.00 87.6 70 130 Surr: Toluene-d8 10 10.00 104 70 130 StempType: LCS TestCode: EPA Method 8260B: VOLATILES StempType: LCS RunNo: 52404 SeqNo: 1718776 Units: µg/L Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg	1,2,3-Trichloropropane	ND	2.0								
ND 1.5 Surr: 1,2-Dichloroethane-d4 9.3 10.00 93.0 70 130 Surr: 4-Bromofluorobenzene 12 10.00 116 70 130 Surr: 1,2-Dichloroethane-d4 9.3 10.00 116 70 130 Surr: 4-Bromofluorobenzene 12 10.00 87.6 70 130 Surr: Toluene-d8 10 10.00 104 70 130 Surr: Toluene-d8 SampType: LCS TestCode: EPA Method 8260B: VOLATILES VOLATILES Surre pDate: Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit High	Vinyl chloride	ND	1.0								
Surr: 4-Bromofluorobenzene 12 10.00 116 70 130 Surr: Dibromofluoromethane 8.8 10.00 87.6 70 130 Surr: Toluene-d8 10 10.00 104 70 130 Surr: Toluene-d8 SampType: LCS TestCode: EPA Method 8260B: VOLATILES VolatileS Stient ID: LCSW Batch ID: W52404 RunNo: 52404 RunNo: 52404 VolatileS Prep Date: Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L VolatileS Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Analyte 1.0 20.00 0 10	Xylenes, Total	ND	1.5								
Surr: Dibromofluoromethane 8.8 10.00 87.6 70 130 Surr: Toluene-d8 10 10.00 104 70 130 aample ID 100ng Icsb SampType: LCS TestCode: EPA Method 8260B: VOLATILES ctient ID: LCSW Batch ID: W52404 RunNo: 52404 Prep Date: Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Analyte 20 1.0 20.00 0 101 70 130 Analyte 21 1.0 20.00 0 101 70 130	Surr: 1,2-Dichloroethane-d4	9.3		10.00		93.0	70	130			
Surr: Toluene-d8 10 10.00 104 70 130 Sample ID 100ng Icsb SampType: LCs TestCode: EPA Method 8260B: VOLATILES Stient ID: LCSW Batch ID: W52404 RunNo: 52404 Outs: pg/L Verep Date: Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Inalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Intere 20 1.0 20.00 0 101 70 130 Intere 21 1.0 20.00 0 104 70 130	Surr: 4-Bromofluorobenzene	12		10.00		116	70	130			
SampType: LCS TestCode: EPA Method 8260B: VOLATILES Client ID: LCSW Batch ID: W52404 RunNo: 52404 Prep Date: Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Intere 20 1.0 20.00 0 101 70 130 Iuene 21 1.0 20.00 0 104 70 130	Surr: Dibromofluoromethane	8.8		10.00		87.6	70	130			
Batch ID: W52404 RunNo: 52404 Prep Date: Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Innalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Innalyte 20 1.0 20.00 0 101 70 130 130	Surr: Toluene-d8	10	and the following starts	10.00		104	70	130			
Prep Date: Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L unalyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual incene 20 1.0 20.00 0 101 70 130 iluene 21 1.0 20.00 0 104 70 130	Sample ID 100ng Icsb	SampT	ype: LC	S	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
AnalyteResultPQLSPK valueSPK Ref Val%RECLowLimitHighLimit%RPDRPDLimitQualenzene201.020.00010170130luene211.020.00010470130	Client ID: LCSW	Batch	ID: WS	52404	F	RunNo: 5	2404				
enzene201.020.00010170130Iluene211.020.00010470130	Prep Date:	Analysis D	ate: 7/	2/2018	ç	SeqNo: 1	718776	Units: µg/L			
luene 21 1.0 20.00 0 104 70 130	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Benzene	20	1.0	20.00	0	101	70	130			
lorobenzene 20 1.0 20.00 0 100 70 130	Toluene	21	1.0	20.00	0	104	70	130			
	Chlorobenzene	20	1.0	20.00	0	100	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В

Value above quantitation range Е

Analyte detected below quantitation limits J

Р Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified W

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WO#: 1806142 05-Jul-18

Client: Project:

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Blagg Engineering GCU 188E

							and the second		
SampT	ype: LC	S	TestCode: EPA Method 8260B: VOLATILES						
Batch ID: W52404 RunNo: 52404									
Analysis D	ate: 7/	2/2018	S	eqNo: 1	718776	Units: µg/L			
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
20	1.0	20.00	0	102	70	130			
19	1.0	20.00	0	92.6	70	130			
9.9		10.00		99.5	70	130			
11		10.00		114	70	130			
9.2		10.00		92.1	70	130			
10		10.00		102	70	130			
	Batch Analysis D Result 20 19 9.9 11 9.2	Batch ID: W Analysis Date: 7/ Result PQL 20 1.0 19 1.0 9.9 11 9.2 1.0	PQL SPK value 20 1.0 20.00 19 1.0 20.00 9.9 10.00 11 10.00 9.2 10.00	Batch ID: W52404 F Analysis Date: 7/2/2018 S Result PQL SPK value SPK Ref Val 20 1.0 20.00 0 19 1.0 20.00 0 9.9 10.00 0 11 10.00 10.00 9.2 10.00 10.00	Batch ID: W52404 RunNo: 5 Analysis Date: 7/2/2018 SeqNo: 1 Result PQL SPK value SPK Ref Val %REC 20 1.0 20.00 0 102 19 1.0 20.00 0 92.6 9.9 10.00 99.5 11 10.00 114 9.2 10.00 92.1	Batch ID: W52404 RunNo: 52404 Analysis Date: 7/2/2018 SeqNo: 1718776 Result PQL SPK value SPK Ref Val %REC LowLimit 20 1.0 20.00 0 102 70 19 1.0 20.00 0 92.6 70 9.9 10.00 99.5 70 11 10.00 114 70 9.2 10.00 92.1 70	Batch ID: W52404 RunNo: 52404 Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 20 1.0 20.00 0 102 70 130 19 1.0 20.00 0 92.6 70 130 9.9 10.00 0 114 70 130 9.2 10.00 92.1 70 130	RunNo: 52404 RunNo: 52404 Analysis Date: 7/2/2018 SeqNo: 1718776 Units: µg/L Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 20 1.0 20.00 0 102 70 130 19 1.0 20.00 0 92.6 70 130 9.9 10.00 99.5 70 130 11 11 10.00 114 70 130 9.2 10.00 92.1 70 130	Batch ID: W52404 RunNo: 52404 Mail Solar

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 10 of 11

Client: Blagg Engineering Project: GCU 188E

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Sample ID 2.5ug gro Ics	SampT	ype: LC	S	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch	ID: A5	2411	F	RunNo: 52411					
Prep Date:	Analysis Date: 7/2/2018			S	SeqNo: 1718277			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	70	130			
Surr: BFB	460		500.0		92.1	70	130			
Sample ID rb	SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range									
Sample ID ID	Sampl	ype: Mt	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Client ID: PBS		ID: A5			tCode: EF RunNo: 5		8015D Mod:	Gasoline	Range	
		ID: A5		F		2411	8015D Mod: Units: mg/K		Range	
Client ID: PBS	Batch	ID: A5	2411 2/2018	F	RunNo: 5	2411			Range RPDLimit	Qual
Client ID: PBS Prep Date:	Batch Analysis D	ID: A5 ate: 7/	2411 2/2018	F	RunNo: 52 SeqNo: 1	2411 718278	Units: mg/K	g	0	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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HALL ENVIRONMENTA ANALYSIS LABORATORY	AL.	TEL:		tal Analys 490 Albuquerq 3975 FAX: w.hallenvir	l Hawk ue, NM 505-345	ins NE 87109 5-4107	San	nple Log-In C	Check List
Client Name: BLAGG		Work C	order Num	nber: 1806	5142			RcptNo	: 1
Received By: Erin Meler Completed By: Erin Meler Reviewed By: JU 7-2	ndrez // §	6/30/2018 6/30/2018				Ú.	MA		
Chain of Custody	<u>(02/18</u>								
1. Is Chain of Custody comp	ete?			Yes		ħ	No 🗌	Not Present	
2. How was the sample delive				Cour	ier				
Log In 3. Was an attempt made to c	ool the samples?			Yes		N	1o 🗌	NA 🗌	
4. Were all samples received	at a temperature	of >0° C to	6.0°C	Yes		N	10	NA 🗌	
5. Sample(s) in proper contai	ner(s)?			Yes	\checkmark	N	10		
 6. Sufficient sample volume fi 7. Are samples (except VOA) 		·	2				lo 🗌 lo 🔲		2
8. Was preservative added to		, procerroo					0	NA 🗆	
9. VOA vials have zero heads							lo 🗌 No 🗹 [No VOA Vials	
 Were any sample containe 11. Does paperwork match bot 		n'?		Yes				# of preserved bottles checked for pH:	
(Note discrepancies on cha		_						(<2 o Adjusted?	r >12 unless noted)
12. Are matrices correctly ident 13. Is it clear what analyses we		Custody?		Yes Yes					
14. Were all holding times able (If no, notify customer for a	to be met?						0	Checked by:	
Special Handling (if app									
15. Was client notified of all di		this order?		Yes		N	No 🗌	NA 🗹	
Person Notified:			Date			and the second			
By Whom:			Via:	eMa	il 🗌	Phone	Fax	In Person	
Regarding:									
Client Instructions:									
16. Additional remarks:									
17. <u>Cooler Information</u> Cooler No. Temp %C 1 3.9	Condition S Good Yes		Seat No	Seal D	ate	Signe	d By		