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

)

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party: BP America Production Co.	OGRID: 778
Contact Name: Steve Moskal	Contact Telephone: (505) 330-9179
Contact email: steven.moskal@bpx.com	Incident # (assigned by OCD)
Contact mailing address: 380 Airport Road, Durango CO, 81303	NVF131752853

## **Location of Release Source**

Latitude: 36.84784

Longitude: -107.60995 (NAD 83 in decimal degrees to 5 decimal places)

(NAD 85 in decimal degrees to 5 decimal places)

Site Name: Northeast Blanco Unit 037	Site Type: Natural Gas Production Well Pad
Date Release Discovered: November 8, 2017	API#: 30-045-13344

Unit Letter	Section	Township	Range	County	
В	06	30N	07W	San Juan	

Surface Owner: State Federal Tribal Private (Name: \_\_\_\_\_

## Nature and Volume of Release

Materi	ial(s) Released (Select all that apply and attach calculations or specifi	c justification for the volumes provided below)	
Crude Oil	Volume Released (bbls) <u>unknown</u>	Volume Recovered (bbls): <u>0 bbls</u>	
Produced Water	Volume Released (bbls):	Volume Recovered (bbls):	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls): unknown	Volume Recovered (bbls): <u>0 bbls</u>	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)	
Cause of Release:			
Historical impacts, possible	former earthen pit.		
NMGCD			
OCT 0 4 2018			
DISTRICT III			

## 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 no	otice 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

 $\square$  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:	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?	(ft bgs)	
Did this release impact groundwater or surface water?		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗌 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)?	🗌 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 🗌 No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗌 No	
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 🗌 No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗌 No	
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 <sup>1</sup>/<sub>2</sub>-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	State of New Mexico Oil Conservation Division			
Page 4			District RP	
C			Facility ID	
			Application ID	
I hereby certify that the information giv regulations all operators are required to public health or the environment. The failed to adequately investigate and ren addition, OCD acceptance of a C-141 r and/or regulations. Printed Name: Signature:	ven above is true and complete to the o report and/or file certain release noti acceptance of a C-141 report by the C nediate contamination that pose a thre report does not relieve the operator of	best of my knowledge and u fications and perform correc OCD does not relieve the op- at to groundwater, surface w responsibility for compliand Title: Date:	understand that pursuant ctive actions for releases erator of liability should water, human health or t ce with any other federa	t to OCD rules and s which may endanger l their operations have he environment. In l, state, or local laws
email:		Telephone:		
OCD Only				
Received by:		Date:		

Form C-141 Page 5 State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.								
<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation points</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC</li> <li>Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)</li> </ul>								
Deferral Requests Only: Fach 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:								
Received by:    Date:								
Approved Approved with Attached Conditions of Approval Denied Deferral Approved								
Signature: Date:								

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: <u>Steve Moskal</u>	Title: <u>Environmental Coordinator</u>
Signature:	Date:October 3, 2018
email: <u>steven.moskal@bpx.com</u>	Telephone: (505) 330-9179
OCDONIY	
Received by: Anossa Fields	Date: 1011212018
Closure approval by the OCD does not relieve the resp	ponsible party of liability should their operations have failed to adequately investigate
and remediate contamination that poses a threat to gro	oundwater, surface water, human health, or the environment nor does not relieve the
responsible party of compliance with any other rederal,	state, or local laws and/or regulations.

Closure Approved by: Vanosse Fields	Date: 10/12/2018
Printed Name:	Title: Environmental Specialist

## **BP** America

## Northeast Blanco Unit 037 - API: 30-045-13344 (B) Sec 6 – T30N – R7W, San Juan County, New Mexico

## **Summary Record of Impact Remediation**

- November 7, 2017
   1. Confirmation sampling conducted of a 95 barrel below grade tank (BGT). 5 point composite sample (5pcs) collected directly beneath BGT at 4 feet (ft.) below grade (b.g.). In addition, two (2) grab samples were collected at 4 and 8 ft. b.g. where staining was observed within the BGT footprint.
   2. New Mexico Oil Conservation Division (NMOCD) Spill & Release Guidelines site closure standard interpreted at 1,000 mg/kg TPH based on: <u>Distance to groundwater: > 100 ft. (bgt permit hydrogeological report)</u>
  - Distance to nearest water source: > 1,000 ft.

Distance to surface water (Navajo Reservoir): > 200 ft. & < 1,000 ft.

3. Federal mineral & surface lease.

<u>November 9, 2017</u> Laboratory results received from BGT sampling. Test results listed below.

## BGT Confirmation & Initial Delineation Sampling Laboratory Analytical Results

Sample ID (composites)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
5PC-TB @ 4' (95)	2.3	1,350	ND	ND	ND
1@ 4' (95)	2.7	3,820	ND	ND	ND
1@ 8' (95)	392	21,340	ND	ND	ND

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, mg/Kg - milligram per kilogram.

- <u>April 4, 2018</u> Initiate remediation via soil excavation and on-site shredding.
- <u>April 5, 2018</u> Complete excavation of impacted media and conduct closure sampling. Final excavation 45'x45'x19' deep. Begin soil shredding.
- <u>April 9, 2018</u> Received 04/05/2018 closure samples final laboratory report. Results listed below.

## **Excavation Closure Sample Laboratory Analytical Results**

Sample ID	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
Base 5-pt. @ 19'	850	79	0.14	ND	ND
North Wall 5-pt. (8'16')	560	228	1.8	ND	ND
East Wall 5-pt. (8'16')	95	7.6	ND	ND	ND
South Wall 5-pt. (8'16')	279	44	ND	ND	ND
West Wall 5-pt. (8'16')	3,062	1,000	18.99	ND	ND

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, mg/Kg - milligram per kilogram.

<u>April 9, 2018</u> Conduct treated pile sampling (5 each x 100 cubic yard piles).

April 11, 2018 Receive 04/05/2018 treated pile final laboratory reports. Results listed below.

## **Treated Soil Pile Laboratory Analytical Results**

Treated Pile ID (5-pt Comps)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
TSP-1	15.2	231.1	ND	ND	ND
TSP-2	23.1	144.7	ND	ND	ND
TSP-3	32.6	137.3	ND	ND	ND
TSP-4	57.4	143.8	ND	ND	ND

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, mg/Kg - milligram per kilogram.

- <u>April 11, 2018</u> Conduct treated pile sampling (5 each x 100 cubic yard piles).
- <u>April 12, 2018</u> Receive 04/11/2018 treated pile preliminary laboratory reports. Treated Pile #5 (TSP-5) exceeded (1,096.6 mg/Kg) the site's TPH closure standard of 1,000 mg/Kg. BP requested a variance to use the treated soils as backfill with no further action. NMOCD approved BP's request for an alternative closure standard and, in addition, apply specified conditions noted during the backfill operation (see attached email correspondence).
- April 13, 2018 Receive 04/11/2018 treated pile final laboratory reports. Results listed below.

### Treated Pile ID Field OVM TPH (GRO+DRO+MRO) **Total BTEX** Benzene Chloride (5-pt Comps) (mg/Kg)(mg/Kg)(mg/Kg)(mg/Kg)(ppm) TSP-5 92 1.096.6 ND ND ND TSP-6 93 540 ND ND ND TSP-7 59 450 ND ND ND TSP-8 58 350 ND ND ND TSP-9 ND 60 340 ND ND

## **Treated Soil Pile Laboratory Analytical Results**

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, mg/Kg - milligram per kilogram.

<u>April 20, 2018</u> Completed excavation backfilling.

<u>August 2, 2018</u> Conducted treated pile stacking area vadose zone sampling (2 each 5-point composites).

<u>August 15, 2018</u> Receive final laboratory analytical test reports from vadose zone sampling. Results listed below.

## **Treated Pile Stacking Area Vadose Zone Laboratory Analytical Results**

Vadose Zone ID	Field OVM	TPH (GRO+DRO+MRO)	Total BTEX	Benzene	Chloride
(5-pt Comps)	(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
TSP BG-1(North)	0.0	62	ND	ND	ND
TSP BG-2(South)	0.0	78	ND	ND	ND

OVM - Organic Vapor Meter, ppm - parts per million, GRO - Gasoline Range Organics, DRO - Diesel Range Organics, mg/Kg - milligram per kilogram.





## Subject: NEBU 037 sampling treated soil results 4-12-18

From:	Steven.	Moska	@bp.com
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To: cory.smith@state.nm.us; vanessa.fields@state.nm.us; aadeloye@blm.gov; l1thomas@blm.gov

- Cc: Vance.Hixon@bp.com; jeffcblagg@aol.com; jody.gonzales@bp.com; Erin.Garifalos@bp.com; blagg\_njv@yahoo.com; dustindmace@gmail.com
- Date: Thursday, April 12, 2018, 3:37:59 PM MDT

All,

Treated Pile #5 failed at 1,096.6 ppm, primarily 700 ppm MRO, which is not readily mobilized in soil and will pose no significant threat the the environment or public health. BP request a variance for closure using this material as backfill with no further action. The other 4 piles tested at below 1,000 ppm. This totals 900 cubic yards of soil for the project and completes soil shredding and excavation at the location.

If a variance is not granted, BP will plan to resample the stockpile tomorrow, 4/13, at 9:00 AM or if another time is preferred by either the BLM or OCD.

Please let me know.

Thanks,

Steve Moskal Environmental Coordinator -BP- SJS (505) 330-9179 Sent from my mobile device



## Subject: Re: NEBU 037 sampling treated soil results 4-12-18

- From: Steven.Moskal@bp.com
  - To: Cory.Smith@state.nm.us
  - Cc: Vanessa.Fields@state.nm.us; aadeloye@blm.gov; l1thomas@blm.gov; Vance.Hixon@bp.com; jeffcblagg@aol.com; jody.gonzales@bp.com; Erin.Garifalos@bp.com; blagg\_njv@yahoo.com; dustindmace@gmail.com

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۰.

Date: Thursday, April 12, 2018, 4:32:37 PM MDT

Thank you Cory. The BLM has agreed with this and we will proceed with mixing the stockpiles and backfilling.

Steve Moskal Environmental Coordinator -BP- SJS (505) 330-9179 Sent from my mobile device

On Apr 12, 2018, at 3:53 PM, Smith, Cory, EMNRD < Cory.Smith@state.nm.us wrote:

Steve,

OCD approves BP request for alternative closure standards on TSP #5, please ensure that TSP #5 is mixed TSP-9 and used as backfill in the deepest remaining portion of the excavation.

Please include this approval in your final C-141.

OCD approval for alternative closure does not relieve BP of any other requirements imposed by other regulatory agencies.

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

# LABORATORY

## RESULTS

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

**NEBU 037** 

**Project:** 

Client Sample ID: BASE 5-pt @ 19' Collection Date: 4/5/2018 11:00:00 AM Received Date: 4/6/2018 7:00:00 AM

Lab ID: 1804338-001	Matrix: S	SOIL	Received	<b>Date:</b> 4/6	/2018 7:00:00 AM	
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	4/6/2018 11:50:53 AM	37461
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst	AG
Gasoline Range Organics (GRO)	38	3.6	mg/Kg	1	4/6/2018 2:05:32 PM	37449
Surr: BFB	117	70-130	%Rec	1	4/6/2018 2:05:32 PM	37449
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst	TOM
Diesel Range Organics (DRO)	41	9.4	mg/Kg	1	4/6/2018 11:49:14 AM	37459
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/6/2018 11:49:14 AM	37459
Surr: DNOP	105	70-130	%Rec	1	4/6/2018 11:49:14 AM	37459
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst	AG
Benzene	ND	0.018	mg/Kg	1	4/6/2018 2:05:32 PM	37449
Toluene	ND	0.036	mg/Kg	1	4/6/2018 2:05:32 PM	37449
Ethylbenzene	ND	0.036	mg/Kg	1	4/6/2018 2:05:32 PM	37449
Xylenes, Total	0.14	0.073	mg/Kg	1	4/6/2018 2:05:32 PM	37449
Surr: 4-Bromofluorobenzene	123	70-130	%Rec	1	4/6/2018 2:05:32 PM	37449
Surr: Toluene-d8	75.9	70-130	%Rec	1	4/6/2018 2:05:32 PM	37449

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

Qualifiers:	k	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
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

CLIENT:	Blagg Engineering	Client Sample ID: NORTH WALL 5-pt (8'-16')							
Project:	NEBU 037		Collection Date: 4/5/2018 11:07:00 AM						
Lab ID:	1804338-002	Matrix: S	OIL	Received	<b>Date:</b> 4/6	/2018 7:00:00 AM			
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst	MRA		
Chloride		ND	30	mg/Kg	20	4/6/2018 12:03:17 PM	37461		
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analyst	AG		
Gasoline	Range Organics (GRO)	170	33	mg/Kg	10	4/6/2018 10:37:15 AM	37449		
Surr: B	BFB	106	70-130	%Rec	10	4/6/2018 10:37:15 AM	37449		
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	TOM		
Diesel Ra	ange Organics (DRO)	58	9.3	mg/Kg	1	4/6/2018 12:11:34 PM	37459		
Motor Oil	Range Organics (MRO)	ND	46	mg/Kg	1	4/6/2018 12:11:34 PM	37459		
Surr: D	NOP	106	70-130	%Rec	1	4/6/2018 12:11:34 PM	37459		
EPA MET	HOD 8260B: VOLATILES S	SHORT LIST				Analyst	AG		
Benzene		ND	0.17	mg/Kg	10	4/6/2018 10:37:15 AM	37449		
Toluene		ND	0.33	mg/Kg	10	4/6/2018 10:37:15 AM	37449		
Ethylbenz	zene	ND	0.33	mg/Kg	10	4/6/2018 10:37:15 AM	37449		
Xylenes,	Total	1.8	0.67	mg/Kg	10	4/6/2018 10:37:15 AM	37449		
Surr: 4	-Bromofluorobenzene	108	70-130	%Rec	10	4/6/2018 10:37:15 AM	37449		
Surr: T	oluene-d8	92.5	70-130	%Rec	10	4/6/2018 10:37:15 AM	37449		

Hall Environmental Analysis Laboratory, Inc.

ation information. ----1 . ~ . 1.0 0 1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservat	ion information
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the ass
	D	Sample Diluted Due to Matrix	Е	Value above quantitation r
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below qu
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperat

- sociated Method Blank
- range
- uantitation limits Page 2 of 9
- ture is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

**Project:** Lah ID.

**NEBU 037** 

1804338-003

Client Sample ID: EAST WALL 5-pt (8'-16') Collection Date: 4/5/2018 11:13:00 AM Received Date: 4/6/2018 7:00:00 AM

Lab ID: 1804338-003	Matrix: S	Matrix: SOIL			Received Date: 4/6/2018 7:00:00 AM		
Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	ND	30	mg/Kg	20	4/6/2018 12:15:42 PM	37461	
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst	AG	
Gasoline Range Organics (GRO)	7.6	3.6	mg/Kg	1	4/6/2018 11:46:43 AM	37449	
Surr: BFB	115	70-130	%Rec	1	4/6/2018 11:46:43 AM	37449	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	: TOM	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/6/2018 12:33:38 PM	37459	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/6/2018 12:33:38 PM	37459	
Surr: DNOP	98.2	70-130	%Rec	1	4/6/2018 12:33:38 PM	37459	
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst	AG	
Benzene	ND	0.018	mg/Kg	1	4/6/2018 11:46:43 AM	37449	
Toluene	ND	0.036	mg/Kg	1	4/6/2018 11:46:43 AM	37449	
Ethylbenzene	ND	0.036	mg/Kg	1	4/6/2018 11:46:43 AM	37449	
Xylenes, Total	ND	0.072	mg/Kg	1	4/6/2018 11:46:43 AM	37449	
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	4/6/2018 11:46:43 AM	37449	
Surr: Toluene-d8	89.1	70-130	%Rec	1	4/6/2018 11:46:43 AM	37449	

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

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
- Analyte detected in the associated Method Blank В
- Value above quantitation range E
- Analyte detected below quantitation limits Page 3 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

CLIENT: Blagg I	Engineering			Cli	ent Sar	nple ID: SC	DUTH WA	ALL 5-pt (8'-1	16')
Project: NEBU	037			C	Collectio	on Date: 4/	5/2018 11	:19:00 AM	
Lab ID: 180433	38-004	Matrix:	SOIL		Receive	ed Date: 4/6	5/2018 7:0	00:00 AM	
Analyses		Result	PQL	Qual U	Units	DF	Date An	alyzed	Batch
EPA METHOD 30	0.0: ANIONS							Analyst	MRA
Chloride		ND	30		mg/Kg	20	4/6/2018	12:28:07 PM	37461
EPA METHOD 80	15D MOD: GASOLINE R	ANGE						Analyst	AG
Gasoline Range C	Organics (GRO)	32	19		mg/Kg	5	4/6/2018	11:23:36 AM	37449
Surr: BFB		111	70-130		%Rec	5	4/6/2018	11:23:36 AM	37449
EPA METHOD 80	15M/D: DIESEL RANGE	ORGANICS	6					Analyst	TOM
Diesel Range Org	anics (DRO)	12	9.2		mg/Kg	1	4/6/2018	12:55:37 PM	37459
Motor Oil Range O	Organics (MRO)	ND	46		mg/Kg	1	4/6/2018	12:55:37 PM	37459
Surr: DNOP		96.1	70-130		%Rec	1	4/6/2018	12:55:37 PM	37459
EPA METHOD 82	60B: VOLATILES SHOR	T LIST						Analyst	AG
Benzene		ND	0.096		mg/Kg	5	4/6/2018	11:23:36 AM	37449
Toluene		ND	0.19		mg/Kg	5	4/6/2018	11:23:36 AM	37449
Ethylbenzene		ND	0.19		mg/Kg	5	4/6/2018	11:23:36 AM	37449
Xylenes, Total		ND	0.38		mg/Kg	5	4/6/2018	11:23:36 AM	37449
Surr: 4-Bromofl	uorobenzene	111	70-130		%Rec	5	4/6/2018	11:23:36 AM	37449
Surr: Toluene-d	18	89.2	70-130		%Rec	5	4/6/2018	11:23:36 AM	37449

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

Qualifiers:	k	Value exceeds Maximum Contaminant L	evel.
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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range E
- Analyte detected below quantitation limits Page 4 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Blagg Engineering

Project: NEBU 037

Client Sample ID: WEST WALL 5-pt (8'-16') Collection Date: 4/5/2018 11:25:00 AM 1/6/2010 7 00 00 434

Lab ID: 1804338-005		Matrix: S	Matrix: SOIL		Received Date: 4/6/2018 7:00:00 AM			
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS					Analyst	MRA	
Chloride		ND	30	mg/Kg	20	4/6/2018 12:40:31 PM	37461	
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analyst	AG	
Gasoline	Range Organics (GRO)	710	82	mg/Kg	20	4/6/2018 11:00:25 AM	37449	
Surr: E	BFB	102	70-130	%Rec	20	4/6/2018 11:00:25 AM	37449	
EPA MET	HOD 8015M/D: DIESEL R/	ANGE ORGANICS				Analyst	TOM	
Diesel Ra	ange Organics (DRO)	290	9.9	mg/Kg	1	4/6/2018 1:17:29 PM	37459	
Motor Oil	Range Organics (MRO)	ND	50	mg/Kg	1	4/6/2018 1:17:29 PM	37459	
Surr: D	NOP	101	70-130	%Rec	1	4/6/2018 1:17:29 PM	37459	
EPA MET	HOD 8260B: VOLATILES	SHORT LIST				Analyst	AG	
Benzene		ND	0.41	mg/Kg	20	4/6/2018 11:00:25 AM	37449	
Toluene		ND	0.82	mg/Kg	20	4/6/2018 11:00:25 AM	37449	
Ethylbena	zene	0.99	0.82	mg/Kg	20	4/6/2018 11:00:25 AM	37449	
Xylenes,	Total	18	1.6	mg/Kg	20	4/6/2018 11:00:25 AM	37449	
Surr: 4	-Bromofluorobenzene	104	70-130	%Rec	20	4/6/2018 11:00:25 AM	37449	
Surr: T	oluene-d8	91.8	70-130	%Rec	20	4/6/2018 11:00:25 AM	37449	

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the ass
	D	Sample Diluted Due to Matrix	Е	Value above quantitation i
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below qu
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperat

- sociated Method Blank
- range
- uantitation limits Page 5 of 9
- W Sample container temperature is out of limit as specified

## Date Reported: 4/11/2018

CLIENT:	Blagg Engineering		(	Client Sampl	e ID: TS	P-1	
Project:	NEBU 037			Collection ]	Date: 4/9	/2018 9:55:00 AM	
Lab ID:	1804464-001	Matrix: S	OIL	Received	<b>Date:</b> 4/1	0/2018 7:20:00 AM	
Analyses		Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	MRA
Chloride		ND	30	mg/Kg	20	4/10/2018 11:25:12 AM	37510
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	TOM
Diesel Ra	ange Organics (DRO)	76	9.6	mg/Kg	1	4/10/2018 10:26:03 AM	37505
Motor Oil	Range Organics (MRO)	150	48	mg/Kg	1	4/10/2018 10:26:03 AM	37505
Surr: E	DNOP	100	70-130	%Rec	1	4/10/2018 10:26:03 AM	37505
EPA MET	HOD 8015D: GASOLINE R	ANGE				Analyst:	NSB
Gasoline	Range Organics (GRO)	5.1	4.6	mg/Kg	1	4/10/2018 9:45:10 AM	G50436
Surr: E	BFB	131	15-316	%Rec	1	4/10/2018 9:45:10 AM	G50436
EPA MET	HOD 8021B: VOLATILES					Analyst:	NSB
Benzene		ND	0.023	mg/Kg	1	4/10/2018 9:45:10 AM	B50436
Toluene		ND	0.046	mg/Kg	1	4/10/2018 9:45:10 AM	B50436
Ethylben	zene	ND	0.046	mg/Kg	1	4/10/2018 9:45:10 AM	B50436
Xylenes,	Total	ND	0.092	mg/Kg	1	4/10/2018 9:45:10 AM	B50436
Surr: 4	l-Bromofluorobenzene	86.5	80-120	%Rec	1	4/10/2018 9:45:10 AM	B50436

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the a
	D	Sample Diluted Due to Matrix	E	Value above quantitation
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- associated Method Blank
- n range
- Analyte detected below quantitation limits Page 1 of 8 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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CLIENT:	Blagg Engineering			Client Sampl	e ID: TS	P-2	
<b>Project:</b>	NEBU 037			Collection	Date: 4/9	/2018 9:59:00 AM	
Lab ID:	1804464-002	Matrix: S	SOIL	Received	Received Date: 4/10/2018 7:20:00 AM		
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS				_	Analyst	MRA
Chloride		ND	30	mg/Kg	20	4/10/2018 11:37:36 AM	37510
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst	TOM
Diesel Ra	ange Organics (DRO)	48	9.7	mg/Kg	1	4/10/2018 10:50:35 AM	37505
Motor Oil	Range Organics (MRO)	92	48	mg/Kg	1	4/10/2018 10:50:35 AM	37505
Surr: D	DNOP	96.0	70-130	%Rec	1	4/10/2018 10:50:35 AM	37505
EPA MET	HOD 8015D: GASOLINE R	ANGE				Analyst	NSB
Gasoline	Range Organics (GRO)	4.7	4.2	mg/Kg	1	4/10/2018 10:08:39 AM	G50436
Surr: E	BFB	128	15-316	%Rec	1	4/10/2018 10:08:39 AM	G50436
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.021	mg/Kg	1	4/10/2018 10:08:39 AM	B50436
Toluene		ND	0.042	mg/Kg	1	4/10/2018 10:08:39 AM	B50436
Ethylben	zene	ND	0.042	mg/Kg	1	4/10/2018 10:08:39 AM	B50436
Xylenes,	Total	ND	0.083	mg/Kg	1	4/10/2018 10:08:39 AM	B50436

80-120

%Rec

1

4/10/2018 10:08:39 AM B50436

87.2

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

Qualifiers:	*	Value exceeds	Maximum	Contaminant	Level.
-					

Surr: 4-Bromofluorobenzene

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- 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 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.	Date Reported: 4/11/2018
Han Divit officient i finalysis Laboratory, file.	Date Reported: 4/11/2018

				Na na amin'ny fanisa dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia k			A DESCRIPTION OF THE OWNER
CLIENT: Project: Lab ID:	Blagg Engineering NEBU 037 1804464-003	Matrix:	SOIL	Client Sample Collection D Received D	e <b>ID:</b> TS Pate: 4/9 Pate: 4/1	P-3 9/2018 10:04:00 AM 0/2018 7:20:00 AM	
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	MRA
Chloride		ND	30	mg/Kg	20	4/10/2018 11:50:01 AM	37510
EPA MET	HOD 8015M/D: DIESEL RANGE					Analyst	том
Diesel Ra	ange Organics (DRO)	51	9.3	mg/Kg	1	4/10/2018 11:14:56 AM	37505
Motor Oil	Range Organics (MRO)	81	46	mg/Kg	1	4/10/2018 11:14:56 AM	37505
Surr: D	DNOP	98.7	70-130	%Rec	1	4/10/2018 11:14:56 AM	37505
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline	Range Organics (GRO)	5.3	3.8	mg/Kg	1	4/10/2018 10:32:12 AM	G50436
Surr: E	BFB	150	15-316	%Rec	1	4/10/2018 10:32:12 AM	G50436
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.019	mg/Kg	1	4/10/2018 10:32:12 AM	B50436
Toluene		ND	0.038	mg/Kg	1	4/10/2018 10:32:12 AM	B50436
Ethylben	zene	ND	0.038	mg/Kg	1	4/10/2018 10:32:12 AM	B50436
Xylenes,	Total	ND	0.076	mg/Kg	1	4/10/2018 10:32:12 AM	B50436
Surr: 4	-Bromofluorobenzene	92.8	80-120	%Rec	1	4/10/2018 10:32:12 AM	B50436

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

The second	the second se			
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 3 of 8
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	wery outside of range due to dilution or matrix W Sample container temperature is out of li	

	Hall	Environmental	Analysis	Laboratory,	Inc.
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Date Reported: 4/11/2018

							the set of		
CLIENT:	Blagg Engineering		Client Sample ID: TSP-4						
<b>Project:</b>	NEBU 037			<b>Collection</b> I	Date: 4/9	/2018 10:08:00 AM			
Lab ID:	1804464-004	Matrix: S	OIL	Received I	<b>Date:</b> 4/1	0/2018 7:20:00 AM			
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst:	MRA		
Chloride		ND	30	mg/Kg	20	4/10/2018 12:02:26 PM	37510		
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst:	том		
Diesel Ra	ange Organics (DRO)	56	10	mg/Kg	1	4/10/2018 11:39:32 AM	37505		
Motor Oil	Range Organics (MRO)	84	50	mg/Kg	1	4/10/2018 11:39:32 AM	37505		
Surr: E	DNOP	93.5	70-130	%Rec	1	4/10/2018 11:39:32 AM	37505		
EPA MET	HOD 8015D: GASOLINE R	ANGE				Analyst:	NSB		
Gasoline	Range Organics (GRO)	3.8	3.3	mg/Kg	1	4/10/2018 10:55:42 AM	G50436		
Surr: E	BFB	142	15-316	%Rec	1	4/10/2018 10:55:42 AM	G50436		
EPA MET	HOD 8021B: VOLATILES					Analyst:	NSB		
Benzene		ND	0.017	mg/Kg	1	4/10/2018 10:55:42 AM	B50436		
Toluene		ND	0.033	mg/Kg	1	4/10/2018 10:55:42 AM	B50436		
Ethylben	zene	ND	0.033	mg/Kg	1	4/10/2018 10:55:42 AM	B50436		
Xylenes,	Total	ND	0.066	mg/Kg	1	4/10/2018 10:55:42 AM	B50436		
Surr: 4	I-Bromofluorobenzene	89.6	80-120	%Rec	1	4/10/2018 10:55:42 AM	B50436		

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

Qualifiers:	*
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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- 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 4 of 8
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 4/13/2018

4/12/2018 9:53:50 AM 37562

CLIENT: Project: Lab ID:	Blagg Engineering NEBU 037 1804628-001	Client Sample ID: TSP-5           Collection Date: 4/11/2018 11:53:00 AM           Matrix: SOIL         Received Date: 4/12/2018 8:15:00 AM					
Analyses		Result	PQL	Qual	Units	DF Date Analyzed Batch	
EPA MET	HOD 300.0: ANIONS					Analyst: MRA	
Chloride		ND	30		mg/Kg	20 4/12/2018 10:51:22 AM 37569	
EPA MET	HOD 8015M/D: DIESEL RANG		6			Analyst: TOM	
Diesel Ra	ange Organics (DRO)	390	9.5		mg/Kg	1 4/12/2018 10:46:38 AM 37568	
Motor Oil	Range Organics (MRO)	700	47		mg/Kg	1 4/12/2018 10:46:38 AM 37568	
Surr: E	DNOP	134	70-130	S	%Rec	1 4/12/2018 10:46:38 AM 37568	
EPA MET	HOD 8015D: GASOLINE RANG	GE				Analyst: NSB	
Gasoline	Range Organics (GRO)	6.6	4.6		mg/Kg	1 4/12/2018 9:53:50 AM 37562	
Surr: E	3FB	135	15-316		%Rec	1 4/12/2018 9:53:50 AM 37562	
EPA MET	HOD 8021B: VOLATILES					Analyst: NSB	
Benzene		ND	0.023		mg/Kg	1 4/12/2018 9:53:50 AM 37562	
Toluene		ND	0.046		mg/Kg	1 4/12/2018 9:53:50 AM 37562	
Ethylben	zene	ND	0.046		mg/Kg	1 4/12/2018 9:53:50 AM 37562	
Xylenes,	Total	ND	0.092		mg/Kg	1 4/12/2018 9:53:50 AM 37562	

80-120

%Rec

1

86.9

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method I

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

Hall Environmental Analysis Laboratory, Inc.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Surr: 4-Bromofluorobenzene

- S % Recovery outside of range due to dilution or matrix
- Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Date Reported: 4/13/2018

4/12/2018 10:17:10 AM 37562

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CLIENT:	Blagg Engineering			Client Samp	e ID: TS	P-6	
Project:	NEBU 037			Collection	Date: 4/1	1/2018 11:58:00 AM	
Lab ID:	1804628-002	Matrix: S	SOIL	Received	Date: 4/1	2/2018 8:15:00 AM	
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst:	MRA
Chloride		ND	30	mg/Kg	20	4/12/2018 11:03:46 AM	37569
EPA MET	HOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst:	TOM
Diesel Ra	ange Organics (DRO)	190	9.7	mg/Kg	1	4/12/2018 11:31:04 AM	37568
Motor Oil	Range Organics (MRO)	350	48	mg/Kg	1	4/12/2018 11:31:04 AM	37568
Surr: E	DNOP	114	70-130	%Rec	1	4/12/2018 11:31:04 AM	37568
EPA MET	HOD 8015D: GASOLINE RA	NGE				Analyst:	NSB
Gasoline	Range Organics (GRO)	ND	4.7	mg/Kg	1	4/12/2018 10:17:10 AM	37562
Surr: E	BFB	133	15-316	%Rec	1	4/12/2018 10:17:10 AM	37562
EPA MET	HOD 8021B: VOLATILES					Analyst:	NSB
Benzene		ND	0.024	mg/Kg	1	4/12/2018 10:17:10 AM	37562
Toluene		ND	0.047	mg/Kg	1	4/12/2018 10:17:10 AM	37562
Ethylben	zene	ND	0.047	mg/Kg	1	4/12/2018 10:17:10 AM	37562
Xylenes,	Total	ND	0.094	mg/Kg	1	4/12/2018 10:17:10 AM	37562

80-120

%Rec

1

90.4

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

**Qualifiers:** 

Surr: 4-Bromofluorobenzene

\* Value exceeds Maximum Contaminant Level.

Hall Environmental Analysis Laboratory, Inc.

- 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 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall	Environmental	Analysis	Laboratory,	Inc.

**CLIENT:** Blagg Engineering

Project: NEBU 037

Client Sample ID: TSP-7 Collection Date: 4/11/2018 12:02:00 PM

Lab ID: 1804628-003	Matrix:	SOIL	Received	Date: 4/1	2/2018 8:15:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	4/12/2018 11:16:11 AM	37569
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5			Analyst:	том
Diesel Range Organics (DRO)	160	8.8	mg/Kg	1	4/12/2018 12:15:12 PM	37568
Motor Oil Range Organics (MRO)	290	44	mg/Kg	1	4/12/2018 12:15:12 PM	37568
Surr: DNOP	114	70-130	%Rec	1	4/12/2018 12:15:12 PM	37568
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	23	mg/Kg	5	4/12/2018 10:40:34 AM	37562
Surr: BFB	102	15-316	%Rec	5	4/12/2018 10:40:34 AM	37562
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.12	mg/Kg	5	4/12/2018 10:40:34 AM	37562
Toluene	ND	0.23	mg/Kg	5	4/12/2018 10:40:34 AM	37562
Ethylbenzene	ND	0.23	mg/Kg	5	4/12/2018 10:40:34 AM	37562
Xylenes, Total	ND	0.47	mg/Kg	5	4/12/2018 10:40:34 AM	37562
Surr: 4-Bromofluorobenzene	87.6	80-120	%Rec	5	4/12/2018 10:40:34 AM	37562

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

Qualifiers:	*
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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- 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 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Hall Environmental Analysis Laboratory, Inc.

Lab Order **1804628** Date Reported: **4/13/2018** 

CLIENT:	Blagg Engineering			Client Sample	e ID: TS	P-8	
<b>Project:</b>	NEBU 037			<b>Collection I</b>	Date: 4/1	1/2018 12:06:00 PM	
Lab ID:	1804628-004	Matrix: S	OIL	Received I	<b>Date:</b> 4/1	2/2018 8:15:00 AM	
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	MRA
Chloride		ND	30	mg/Kg	20	4/12/2018 11:28:36 AM	37569
EPA MET	HOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	TOM
Diesel Ra	ange Organics (DRO)	120	9.0	mg/Kg	1	4/12/2018 12:59:25 PM	37568
Motor Oi	Range Organics (MRO)	230	45	mg/Kg	1	4/12/2018 12:59:25 PM	37568
Surr: [	DNOP	111	70-130	%Rec	1	4/12/2018 12:59:25 PM	37568
EPA MET	HOD 8015D: GASOLINE R	ANGE				Analyst	NSB
Gasoline	Range Organics (GRO)	ND	21	mg/Kg	5	4/12/2018 11:04:09 AM	37562
Surr: E	BFB	105	15-316	%Rec	5	4/12/2018 11:04:09 AM	37562
EPA MET	HOD 8021B: VOLATILES					Analyst	NSB
Benzene		ND	0.11	mg/Kg	5	4/12/2018 11:04:09 AM	37562
Toluene		ND	0.21	mg/Kg	5	4/12/2018 11:04:09 AM	37562
Ethylben	zene	ND	0.21	mg/Kg	5	4/12/2018 11:04:09 AM	37562
Xylenes,	Total	ND	0.43	mg/Kg	5	4/12/2018 11:04:09 AM	37562
Surr: 4	4-Bromofluorobenzene	85.0	80-120	%Rec	5	4/12/2018 11:04:09 AM	37562

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
- 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 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

## Date Reported: 4/13/2018

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CLIENT:	Blagg Engineering			Client Sampl	e ID: TS	P-9	
<b>Project:</b>	NEBU 037			Collection I	Date: 4/1	1/2018 12:10:00 PM	
Lab ID:	1804628-005	Matrix: S	SOIL	Received I	Date: 4/1	2/2018 8:15:00 AM	
Analyses		Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	MRA
Chloride		ND	30	mg/Kg	20	4/12/2018 12:05:50 PM	37569
EPA MET	HOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst:	TOM
Diesel Ra	ange Organics (DRO)	120	9.7	mg/Kg	1	4/12/2018 1:43:36 PM	37568
Motor Oil	Range Organics (MRO)	220	49	mg/Kg	1	4/12/2018 1:43:36 PM	37568
Surr: E	NOP	110	70-130	%Rec	1	4/12/2018 1:43:36 PM	37568
EPA MET	HOD 8015D: GASOLINE RANG	E				Analyst:	NSB
Gasoline	Range Organics (GRO)	ND	21	mg/Kg	5	4/12/2018 11:27:30 AM	37562
Surr: E	3FB	105	15-316	%Rec	5	4/12/2018 11:27:30 AM	37562
EPA MET	HOD 8021B: VOLATILES					Analyst:	NSB
Benzene		ND	0.10	mg/Kg	5	4/12/2018 11:27:30 AM	37562
Toluene		ND	0.21	mg/Kg	5	4/12/2018 11:27:30 AM	37562
Ethylben	zene	ND	0.21	mg/Kg	5	4/12/2018 11:27:30 AM	37562
Xylenes,	Total	ND	0.42	mg/Kg	5	4/12/2018 11:27:30 AM	37562
Surr: 4	-Bromofluorobenzene	86.3	80-120	%Rec	5	4/12/2018 11:27:30 AM	37562

Hall Environmental Analysis Laboratory, Inc.

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

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Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 5 of 9
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1808219 Date Reported: 8/15/2018

CLIENT:	Blagg Engineering		Cli	ient Sample II	: TS	SP BG-1 (NORTH)	
Project:	NEBU 37		0	<b>Collection Date</b>	e: 8/2	2/2018 8:25:00 AM	
Lab ID:	1808219-001	Matrix: SOIL		Received Date	e: 8/3	8/2018 7:30:00 AM	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analyst	MRA
Chloride		ND	30	mg/Kg	20	8/10/2018 9:42:32 PM	39721
EPA MET	HOD 8015D MOD: GASOL	INE RANGE				Analyst	AG
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	8/6/2018 10:44:13 PM	39589
Surr: E	BFB	115	70-130	%Rec	1	8/6/2018 10:44:13 PM	39589
EPA MET	HOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	: Irm
Diesel Ra	ange Organics (DRO)	62	10	mg/Kg	1	8/7/2018 3:24:15 PM	39604
Motor Oil	Range Organics (MRO)	150	50	mg/Kg	1	8/7/2018 3:24:15 PM	39604
Surr: E	NOP	77.7	50.6-138	%Rec	1	8/7/2018 3:24:15 PM	39604
EPA MET	HOD 8260B: VOLATILES	SHORT LIST				Analyst	: AG
Benzene		ND	0.024	mg/Kg	1	8/6/2018 10:44:13 PM	39589
Toluene		ND	0.048	mg/Kg	1	8/6/2018 10:44:13 PM	39589
Ethylben	zene	ND	0.048	mg/Kg	1	8/6/2018 10:44:13 PM	39589
Xylenes,	Total	ND	0.095	mg/Kg	1	8/6/2018 10:44:13 PM	39589
Surr: 4	-Bromofluorobenzene	130	70-130	%Rec	1	8/6/2018 10:44:13 PM	39589
Surr: T	oluene-d8	95.4	70-130	%Rec	1	8/6/2018 10:44:13 PM	39589

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 6
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative 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 1808219 Date Reported: 8/15/2018

CLIENT:	Blagg Engineering		Cl	ient Sa	ample II	): TS	SP BG-2 (SOUTH)	
<b>Project:</b>	NEBU 37		0	Collect	ion Dat	e: 8/2	2/2018 8:28:00 AM	
Lab ID:	1808219-002	Matrix: SOIL		Receiv	ved Dat	e: 8/3	8/2018 7:30:00 AM	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	MRA
Chloride		ND	30		mg/Kg	20	8/10/2018 9:54:57 PM	39721
EPA MET	HOD 8015D MOD: GASC	DLINE RANGE					Analyst	AG
Gasoline	Range Organics (GRO)	ND	4.6		mg/Kg	1	8/6/2018 11:07:21 PM	39589
Surr: E	BFB	118	70-130		%Rec	1	8/6/2018 11:07:21 PM	39589
EPA MET	HOD 8015M/D: DIESEL	RANGE ORGANICS					Analyst	Irm
Diesel Ra	ange Organics (DRO)	78	10		mg/Kg	1	8/7/2018 4:40:05 PM	39604
Motor Oil	Range Organics (MRO)	220	50		mg/Kg	1	8/7/2018 4:40:05 PM	39604
Surr: D	DNOP	86.0	50.6-138		%Rec	1	8/7/2018 4:40:05 PM	39604
EPA MET	HOD 8260B: VOLATILES	S SHORT LIST					Analyst	AG
Benzene		ND	0.023		mg/Kg	1	8/6/2018 11:07:21 PM	39589
Toluene		ND	0.046		mg/Kg	1	8/6/2018 11:07:21 PM	39589
Ethylben	zene	ND	0.046		mg/Kg	1	8/6/2018 11:07:21 PM	39589
Xylenes,	Total	ND	0.093		mg/Kg	1	8/6/2018 11:07:21 PM	39589
Surr: 4	-Bromofluorobenzene	133	70-130	S	%Rec	1	8/6/2018 11:07:21 PM	39589
Surr: 1	oluene-d8	96.7	70-130		%Rec	1	8/6/2018 11:07:21 PM	39589

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

Hall Environmental Analysis Laboratory, Inc.

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

# LABORATORY CHAIN-OF-CUSTODY

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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.

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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.

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## LABORATORY

## QUALITY ASSURANCE /

QUALITY

CONTROL

Page 6 of 9

## Client: Blagg Engineering Project: NEBU 037

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Sample ID MB-37461	SampType: mblk	TestCod	e: EPA Method 3	00.0: Anions			
Client ID: PBS	Batch ID: 37461	RunN	o: <b>50374</b>				
Prep Date: 4/6/2018	Analysis Date: 4/6/20	18 SeqN	o: 1632980	Units: mg/Kg			
Analyte	Result PQL SP	K value SPK Ref Val %F	REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND 1.5						
Sample ID LCS-37461	SampType: Ics	TestCod	e: EPA Method 3	00.0: Anions			
Sample ID LCS-37461 Client ID: LCSS	SampType: Ics Batch ID: 37461	TestCod	e: EPA Method 3 o: 50374	00.0: Anions			
Sample ID LCS-37461 Client ID: LCSS Prep Date: 4/6/2018	SampType: Ics Batch ID: 37461 Analysis Date: 4/6/20	TestCod RunN 18 SeqN	e: EPA Method 3 o: 50374 o: 1632981	00.0: Anions Units: mg/Kg			
Sample ID LCS-37461 Client ID: LCSS Prep Date: 4/6/2018 Analyte	SampType: <b>Ics</b> Batch ID: <b>37461</b> Analysis Date: <b>4/6/20</b> Result PQL SP	TestCod RunN 18 SeqN K value SPK Ref Val %F	e: EPA Method 3 o: 50374 o: 1632981 REC LowLimit	<b>00.0: Anions</b> Units: <b>mg/Kg</b> HighLimit	%RPD	RPDLimit	Qual

- \* 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

Page 7 of 9

Client: B Project: N

Blagg Engineering NEBU 037

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Sample ID LCS-37459	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 37	459	F	RunNo: 5	0367				
Prep Date: 4/6/2018	Analysis D	ate: 4/	6/2018	S	SeqNo: 1	632357	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.3	70	130			
Surr: DNOP	4.5		5.000		90.7	70	130			
Sample ID MB-37459	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Sample ID MB-37459 Client ID: PBS	SampT Batch	ype: ME	3LK 459	Tes F	tCode: El RunNo: 5	PA Method 0367	8015M/D: Di	esel Range	e Organics	
Sample ID MB-37459 Client ID: PBS Prep Date: 4/6/2018	SampT Batch Analysis D	ype: ME 1D: 37 ate: 4/	3LK 459 6/2018	Tes F S	tCode: El RunNo: 5 SeqNo: 1	PA Method 0367 632358	8015M/D: Die Units: mg/k	esel Range	e Organics	
Sample ID <b>MB-37459</b> Client ID: <b>PBS</b> Prep Date: <b>4/6/2018</b> Analyte	SampT Batch Analysis D Result	ype: ME 1D: 37 ate: 4/ PQL	3LK 459 6/2018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 0367 632358 LowLimit	8015M/D: Die Units: mg/M HighLimit	esel Rango (g %RPD	e Organics	Qual
Sample ID MB-37459 Client ID: PBS Prep Date: 4/6/2018 Analyte Diesel Range Organics (DRO)	SampT Batch Analysis D Result ND	ype: ME 1D: 374 Pate: 4/ PQL 10	3LK 459 6/2018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 0367 632358 LowLimit	8015M/D: Di Units: mg/M HighLimit	esel Rango (g %RPD	e Organics RPDLimit	Qual
Sample ID MB-37459 Client ID: PBS Prep Date: 4/6/2018 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	SampT Batch Analysis D Result ND ND	ype: ME ID: 37 Pate: 4/ PQL 10 50	3LK 459 6/2018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 0367 632358 LowLimit	8015M/D: Di Units: mg/k HighLimit	esel Rango Kg %RPD	e Organics RPDLimit	Qual

- \* 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

WO#: **1804338** *09-Apr-18* 

Client: Project: Blagg Engineering NEBU 037

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Sample ID MB-37449	SampT	ype: ME	3LK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	h ID: 37	449	F	RunNo: 5	0381				
Prep Date: 4/5/2018	Analysis D	Date: 4/	6/2018	S	SeqNo: 1	633401	Units: mg/K	g		
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								
Xvlenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.59		0.5000		117	70	130			
Surr: Toluene-d8	0.42		0.5000		84 5	70	130			
	0.42		0.0000		04.0		100			an built an
Sample ID LCS-37449	SampT	Type: LC	S	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: LCSS	Batcl	h ID: 37	449	F	RunNo: 5	0381				
Prep Date: 4/5/2018	Analysis E	Date: 4/	6/2018	S	SeqNo: 1	634134	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	85.7	80	120			
Toluene	0.87	0.050	1.000	0	87.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120			
• · · · · · · · · · · · · · · · · · · ·							100			
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
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- B Analyte detected in the associated Method Blank
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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

Page 8 of 9

Client: Blagg Engineering Project: NEBU 037

		and the second se										
Sample ID Ics-37449	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod:	D Mod: Gasoline Range				
Client ID: LCSS	Batcl	n ID: 37	449	RunNo: 50381								
Prep Date: 4/5/2018	Analysis E	Date: 4/	6/2018	S	SeqNo: 1	633365	Units: mg/k	٢g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	70	130					
Surr: BFB	530		500.0		106	70	130					
excelor/sectory to introduce and an excelor sector and an excelor sector and an excelor sector and an excelor sector s		Name and Address of Party of Statements	and an application of the state		and a second	and the second se	and the second se			and the second se		
Sample ID MB-37449	SampT	ype: ME	3LK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range			
Sample ID MB-37449 Client ID: PBS	Samp1 Batcl	ype: ME	3LK 449	Tes F	tCode: El RunNo: 5	PA Method 0381	8015D Mod:	Gasoline	Range			
Sample ID MB-37449 Client ID: PBS Prep Date: 4/5/2018	SampT Batcl Analysis D	Type: <b>ME</b> h ID: <b>37</b> Date: <b>4</b> /	3LK 449 /6/2018	Tes F S	tCode: El RunNo: 5 GeqNo: 1	PA Method 0381 633366	8015D Mod: Units: mg/F	Gasoline (g	Range			
Sample ID <b>MB-37449</b> Client ID: <b>PBS</b> Prep Date: <b>4/5/2018</b> Analyte	SampT Batcl Analysis E Result	Type: ME h ID: 37 Date: 4/ PQL	3LK 449 6/2018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 0381 633366 LowLimit	8015D Mod: Units: mg/k HighLimit	Gasoline (g %RPD	Range RPDLimit	Qual		
Sample ID MB-37449 Client ID: PBS Prep Date: 4/5/2018 Analyte Gasoline Range Organics (GRO)	SampT Batcl Analysis E Result ND	Type: ME h ID: 37 Date: 4/ PQL 5.0	3LK 449 6/2018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 0381 633366 LowLimit	8015D Mod: Units: mg/k HighLimit	Gasoline (g %RPD	Range RPDLimit	Qual		

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- P Sample pH Not In Range
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- W Sample container temperature is out of limit as specified

Page 9 of 9

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albi TEL: 505-345-3975 Website: www.ha	Analysis Laboratory 4901 Hawkins NE uquerque, NM 87109 FAX: 505-345-4107 illenvironmental.com	San	nple Log-In C	heck List
Client Name: BLAGG	Work Order Number	1804338		RcptNo	1
Paceived By: Anna Thoma	4/6/2018 7:00:00 AM		n N		
Completed By: Anne Thome	4/6/2019 7:19:14 AM		anne An		
Reviewed By: 04 14.6 16	AT Cabale	(	ame An	~	
Chain of Custody		19 <sup>10</sup> - 1			
1. Is Chain of Custody complete?		Yes 🗹	No	Not Present	
2. How was the sample delivered?		Courier			
Log In					а.
3. Was an attempt made to cool the samples?		Yes 🗹	No	NA	
4. Were all samples received at a temperature of	>0° 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 V	
10. Were any sample containers received broken?		Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels?		Yes 🗸	No 🗌	bottles checked for pH:	>12 uplace nated)
(Note discrepancies on chain of custody)	istody?	Vec V	No	Adjusted?	>12 unless noted)
13 Is it clear what analyses were requested?	atody?	Yes 🔽			
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗌	Checked by:	
Special Handling (if applicable)		*			×.
15. Was client notified of all discrepancies with thi	s order?	Yes	No 🗌	NA 🗹	9
Person Notified	Date		Sciences assessment of the		
By Whom:	Via:	eMail 🗌 Phon	e 🗌 Fax	In Person	
Regarding:		· · · · · · · · · · · · · · · · · · ·			
Client Instructions:				nanden sense ser sense se ser se	2 2
16. Additional remarks:					
17. <u>Cooler Information</u>					
Cooler No Temp °C Condition Seal	Intact Seal No S	Seal Date Sig	ned By		
		·	an an - an haire an tar a chair a tha tha a - a	I	

Page 5 of 8

Client: Blagg Engineering Project: NEBU 037

		and the second second second second		Code of the party			and prost stable by the party of a sector of		
Sample ID MB-37510	SampType: mb	lk	Test	Code: EF	PA Method	300.0: Anion	5		
Client ID: PBS	Batch ID: 375	510	R	unNo: 50	)446				
Prep Date: 4/10/2018	Analysis Date: 4/1	10/2018	S	eqNo: 16	635906	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-37510	SampType: Ics		Test	Code: EF	PA Method	300.0: Anion	s		
Sample ID LCS-37510 Client ID: LCSS	SampType: Ics Batch ID: 375	510	Test	Code: EF	PA Method	300.0: Anion	S		
Sample ID LCS-37510 Client ID: LCSS Prep Date: 4/10/2018	SampType: Ics Batch ID: 375 Analysis Date: 4/1	510 10/2018	Test R S	Code: EF unNo: 50	PA Method 0446 635907	300.0: Anion Units: mg/K	s g		
Sample ID LCS-37510 Client ID: LCSS Prep Date: 4/10/2018 Analyte	SampType: Ics Batch ID: 375 Analysis Date: 4/1 Result PQL	510 10/2018 SPK value	Test R S SPK Ref Val	Code: EF unNo: 50 eqNo: 16 %REC	PA Method 0446 635907 LowLimit	300.0: Anion Units: mg/K HighLimit	s g %RPD	RPDLimit	Qual

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
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- P Sample pH Not In Range
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- W Sample container temperature is out of limit as specified

Page 6 of 8

Client: Project: Blagg Engineering NEBU 037

	NEW YORK WARD AND AND AND AND AND AND AND AND AND AN		the producted as produced as the character of the second states of the second states of the second states of the	Conference on the Conference of States				of set of second se		
Sample ID MB-37505	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch I	D: 37	505	F	RunNo: 5	0426				
Prep Date: 4/10/2018	Analysis Da	te: 4/	10/2018	S	SeqNo: 1	634861	Units: mg/K	g		
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	8.9		10.00		89.4	70	130			
Sample ID LCS-37505	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch I	D: 37	505	F	RunNo: 5	0426				
Prep Date: 4/10/2018	Analysis Da	te: 4/	10/2018	S	SeqNo: 1	635048	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.2	70	130			
Surr: DNOP	4.0		5.000		79.5	70	130			

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#: **1804464** *11-Apr-18* 

## Client: Blagg Engineering Project: NEBU 037

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Sample ID RB	Samp	Гуре: МЕ	3LK	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batc	h ID: G5	0436	RunNo: 50436						
Prep Date:	Analysis [	Date: 4/	10/2018	S	SeqNo: 1	635716	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.0	15	316			
			1000		02.0		•.•			
Sample ID 2.5UG GRO LCS	Samp	Type: LC	s	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Sample ID 2.5UG GRO LCS Client ID: LCSS	Samp <sup>¬</sup> Batc	Гуре: LC h ID: G5	:S 60436	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Sample ID 2.5UG GRO LCS Client ID: LCSS Prep Date:	Samp Batc Analysis [	Type: LC h ID: G5 Date: 4/	S 60436 10/2018	Tes F S	tCode: El RunNo: 5 SeqNo: 1	PA Method 0436 635717	8015D: Gase	oline Rang	e	
Sample ID 2.5UG GRO LCS Client ID: LCSS Prep Date: Analyte	Samp Batc Analysis I Result	Гуре: LC h ID: G5 Date: 4/ PQL	50436 50436 5042018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 0436 635717 LowLimit	8015D: Gaso Units: mg/P HighLimit	oline Rang (g %RPD	e RPDLimit	Qual
Sample ID 2.5UG GRO LCS Client ID: LCSS Prep Date: Analyte Gasoline Range Organics (GRO)	Samp Batc Analysis I Result 28	Type: LC h ID: G5 Date: 4/ PQL 5.0	50436 50436 10/2018 SPK value 25.00	Tes F S SPK Ref Val 0	tCode: El RunNo: 5 SeqNo: 1 %REC 113	PA Method 0436 635717 LowLimit 75.9	8015D: Gaso Units: mg/k HighLimit 131	oline Rang Kg %RPD	e RPDLimit	Qual

- \* 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
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- W Sample container temperature is out of limit as specified
- Page 7 of 8

WO#: **1804464** *11-Apr-18* 

Client:Blagg EngineeringProject:NEBU 037

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Sample ID RB	Samp	Гуре: МЕ	BLK	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batc	h ID: B5	0436	RunNo: 50436						
Prep Date:	Analysis [	Date: 4/	10/2018	S	SeqNo: 1635749 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025						nen jonalna i spolo inna jo dina	anajara de se la meneral antena esta	
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.5	80	120			
Sample ID 100NG BTEX LC	S Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles	un an	
Sample ID 100NG BTEX LCS Client ID: LCSS	S Samp Batc	Гуре: LC h ID: B5	S 0436	Tes	tCode: El RunNo: 5	PA Method 0436	8021B: Vola	tiles		
Sample ID 100NG BTEX LCS Client ID: LCSS Prep Date:	S Samp Batc Analysis [	Гуре: LC h ID: B5 Date: 4/	S 0436 10/2018	Tes F S	tCode: El RunNo: 5 SeqNo: 1	PA Method 0436 635751	8021B: Volat	tiles (g		
Sample ID 100NG BTEX LCS Client ID: LCSS Prep Date: Analyte	S Samp Batc Analysis I Result	Type: LC h ID: B5 Date: 4/ PQL	S 0436 10/2018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 0436 635751 LowLimit	8021B: Vola Units: mg/k HighLimit	tiles (g %RPD	RPDLimit	Qual
Sample ID 100NG BTEX LCS Client ID: LCSS Prep Date: Analyte Benzene	S Samp Batc Analysis I Result 0.93	Fype: LC h ID: B5 Date: 4/ PQL 0.025	S 0436 10/2018 SPK value 1.000	Tes F S SPK Ref Val 0	tCode: El RunNo: 5 GeqNo: 1 %REC 92.7	PA Method 0436 635751 LowLimit 77.3	8021B: Volar Units: mg/k HighLimit 128	tiles (g %RPD	RPDLimit	Qual
Sample ID 100NG BTEX LCS Client ID: LCSS Prep Date: Analyte Benzene Toluene	S Samp Batc Analysis I Result 0.93 0.93	Fype: LC h ID: B5 Date: 4/ PQL 0.025 0.050	S 0436 10/2018 SPK value 1.000 1.000	Tes F S SPK Ref Val 0 0	tCode: El RunNo: 5 SeqNo: 1 %REC 92.7 92.7	PA Method 0436 635751 LowLimit 77.3 79.2	8021B: Volar Units: mg// HighLimit 128 125	tiles (g %RPD	RPDLimit	Qual
Sample ID 100NG BTEX LCS Client ID: LCSS Prep Date: Analyte Benzene Toluene Ethylbenzene	S Samp Batc Analysis I Result 0.93 0.93 0.92	Type: LC h ID: B5 Date: 4/ PQL 0.025 0.050 0.050	S 0436 10/2018 SPK value 1.000 1.000 1.000	Tes F SPK Ref Val 0 0 0 0	tCode: El RunNo: 56 SeqNo: 10 %REC 92.7 92.7 92.2	PA Method 0436 635751 LowLimit 77.3 79.2 80.7	8021B: Volar Units: mg/k HighLimit 128 125 127	tiles (g %RPD	RPDLimit	Qual
Sample ID 100NG BTEX LCS Client ID: LCSS Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	S Samp Batc Analysis I Result 0.93 0.93 0.92 2.8	Type: LC h ID: B5 Date: 4/ PQL 0.025 0.050 0.050 0.10	S 0436 10/2018 SPK value 1.000 1.000 1.000 3.000	Tes F SPK Ref Val 0 0 0 0 0	tCode: El RunNo: 5 SeqNo: 10 %REC 92.7 92.7 92.2 94.0	PA Method 0436 535751 LowLimit 77.3 79.2 80.7 81.6	8021B: Volat Units: mg/k HighLimit 128 125 127 129	tiles (g %RPD	RPDLimit	Qual

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 8

HALL /IRONMENTAL ANALYSIS LABORATORY	Hall Environmental Analysis Laborator 4901 Hawkins N. Albuquerque, NM 8710 TEL: 505-345-3975 FAX: 505-345-410 Website: www.hallenvironmental.com	<sup>97</sup> B97 m m m
Client Name: BLAGG	Work Order Number: 1804464	RcptNo: 1
Received By: Anne Thorne 4/1	0/2018 7:20:00 AM	anne Ham
Completed By: Anne Thorne 4/1	0/2018 7:28:40 AM	ane this
Reviewed By: The 4	10/18	
Chain of Custody	×	
1. Is Chain of Custody complete?	Yes 🗸	No Not Present
2. How was the sample delivered?	Courier	
Loa In		
3. Was an attempt made to cool the samples?	Yes 🗹	No 🗌 NA 🗌
4. Were all samples received at a temperature of >	0° 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 pre	served? 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  # of preserved bottles checked
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🖌	No for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custo	ody? Yes 🗹	No Adjusted?
13. Is it clear what analyses were requested?	Yes 🖌	No 🗌
<ol> <li>Were all holding times able to be met?</li> <li>(If no, notify customer for authorization.)</li> </ol>	Yes 🗹	No Checked by:
Special Handling (if applicable)		
15. Was client notified of all discrepancies with this o	rder? Yes	No 🗌 NA 🗹
Person Notified:	Date	M #D34EEuwaaaaaccoccer
By Whom:	Via: eMail Phor	ne 🗌 Fax 🔄 In Person
Regarding:		
Client Instructions:		
16. Additional remarks:		
17. <u>Cooler Information</u>		
Cooler No Temp °C Condition Seal In	tact Seal No Seal Date Sig	gned By
1.0 Good Yes		

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WO#: **1804628** *13-Apr-18* 

Page 6 of 9

## Client: Blagg Engineering Project: NEBU 037

		and the second state of th	CONTRACTOR OF TAXABLE PROPERTY OF TAXABLE PROPERTY OF TAXABLE PROPERTY.		and the second state of the se	Constant and the second se		
Sample ID MB-37569	SampType	e: mblk	Test	Code: EPA Method	300.0: Anions	3		
Client ID: PBS	Batch ID	37569	Ru	unNo: 50515				
Prep Date: 4/12/2018	Analysis Date	4/12/2018	Se	eqNo: 1638842	Units: mg/K	g		
Analyte	Result F	QL SPK val	ie SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5						
Sample ID LCS-37569	SampType	e: Ics	Test	Code: EPA Method	300.0: Anions	3		
Sample ID LCS-37569 Client ID: LCSS	SampType Batch ID	e: Ics :: 37569	Testo	Code: EPA Method unNo: 50515	300.0: Anions	3		
Sample ID LCS-37569 Client ID: LCSS Prep Date: 4/12/2018	SampType Batch ID Analysis Date	e: Ics : 37569 : 4/12/2018	Test( Ru Se	Code: EPA Method unNo: 50515 eqNo: 1638843	300.0: Anions Units: mg/K	9		
Sample ID LCS-37569 Client ID: LCSS Prep Date: 4/12/2018 Analyte	SampType Batch ID Analysis Date Result F	e: <b>Ics</b> : <b>37569</b> :: <b>4/12/2018</b> PQL SPK valu	Testo Ru Se ie SPK Ref Val	Code: EPA Method unNo: 50515 eqNo: 1638843 %REC LowLimit	300.0: Anions Units: mg/K HighLimit	s 9 %RPD	RPDLimit	Qual

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project: Blagg Engineering NEBU 037

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Sample ID LCS-37536	SampType:	LCS	Test	Code: EP	A Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch ID:	37536	R	lunNo: 50	494				
Prep Date: 4/11/2018	Analysis Date:	4/12/2018	S	eqNo: 16	37376	Units: %Re	C		
Analyte	Result PO	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2	5.000		83.5	70	130	an alban da aga an da an	and the local sector of the	
Sample ID MP 27526	SampType		Tost	Codo: EP	A Mathad	9015M/D: Di	and Bang	Organico	
Sample ID MID-37550	Samp Type.	MDLK	Test	Coue. EP	A Method	6015M/D. Di	eser Range	eorganics	
Client ID: PBS	Batch ID:	37536	R	lunNo: 50	494				
Prep Date: 4/11/2018	Analysis Date:	4/12/2018	S	eqNo: 16	37377	Units: %Re	C		
Analyte	Result PO	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4	10.00		94.1	70	130			
Sample ID LCS-37568	SampType:	LCS	Test	Code: EP	A Method	8015M/D: Die	esel Rang	e Organics	
							-	-	
Client ID: LCSS	Batch ID:	37568	R	unNo: 50	494				
Client ID: LCSS Prep Date: 4/12/2018	Batch ID: Analysis Date:	37568 4/12/2018	R	tunNo: 50 6 6 6 7 6 16	494 37385	Units: ma/k	a		
Client ID: LCSS Prep Date: 4/12/2018	Batch ID: Analysis Date:	37568 4/12/2018	R	tunNo: 50 GeqNo: 16	494 37385	Units: mg/K	g		
Client ID: LCSS Prep Date: 4/12/2018 Analyte	Batch ID: Analysis Date: Result P0	37568 4/12/2018 QL SPK value	R S SPK Ref Val	aunNo: 50 SeqNo: 16 %REC	494 37385 LowLimit	Units: <b>mg/K</b> HighLimit	(g %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO)	Batch ID: Analysis Date: Result P0 47	<b>37568</b> <b>4/12/2018</b> <u>AL</u> SPK value 10 50.00	R S SPK Ref Val 0	RunNo: 50 GeqNo: 16 %REC 94.2	494 37385 LowLimit 70	Units: mg/K HighLimit 130	íg %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch ID: Analysis Date: Result PC 47 4.2	<b>37568</b> <b>4/12/2018</b> <u>AL SPK value</u> 10 50.00 5.000	R S SPK Ref Val 0	eqNo: 50 6eqNo: 16 94.2 85.0	<b>494</b> <b>37385</b> LowLimit 70 70	Units: mg/K HighLimit 130 130	sg %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch ID: Analysis Date: Result P0 47 4.2 SampType:	37568 4/12/2018 2L SPK value 10 50.00 5.000 MBLK	R SPK Ref Val 0 Test	tunNo: 50 ieqNo: 16 %REC 94.2 85.0 iCode: EP	494 37385 LowLimit 70 70 A Method	Units: mg/K HighLimit 130 130 8015M/D: Die	(g %RPD	RPDLimit e Organics	Qual
Client ID: LCSS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-37568 Client ID: PBS	Batch ID: Analysis Date: Result PC 47 4.2 SampType: Batch ID:	37568 4/12/2018 2L SPK value 10 50.00 5.000 MBLK 37568	R SPK Ref Val 0 Test	tunNo: 504 seqNo: 16 %REC 94.2 85.0 tCode: EP	494 37385 LowLimit 70 70 A Method 494	Units: mg/K HighLimit 130 130 8015M/D: Die	G %RPD esel Range	RPDLimit e Organics	Qual
Client ID: LCSS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-37568 Client ID: PBS Prep Date: 4/12/2018	Batch ID: Analysis Date: Result PC 47 4.2 SampType: Batch ID: Analysis Date:	37568 4/12/2018 2L SPK value 10 50.00 5.000 MBLK 37568 4/12/2018	R SPK Ref Val 0 Test R S	tunNo: 504 seqNo: 16 %REC 94.2 85.0 tCode: EP tunNo: 504 seqNo: 16	494 37385 LowLimit 70 70 A Method 494 37386	Units: mg/K HighLimit 130 130 8015M/D: Die Units: mg/K	Sg %RPD esel Range	RPDLimit	Qual
Client ID: LCSS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-37568 Client ID: PBS Prep Date: 4/12/2018 Analyte	Batch ID: Analysis Date: Result PC 47 4.2 SampType: Batch ID: Analysis Date: Result PC	37568 4/12/2018 2L SPK value 10 50.00 5.000 MBLK 37568 4/12/2018 2L SPK value	R SPK Ref Val 0 Test R SPK Ref Val	tunNo: 504 jeqNo: 16: <u>%REC</u> 94.2 85.0 tCode: EP, tanNo: 504 jeqNo: 16: %REC	494 37385 LowLimit 70 70 A Method 494 37386 LowLimit	Units: mg/K HighLimit 130 130 8015M/D: Die Units: mg/K HighLimit	Sg %RPD esel Range Sg %RPD	RPDLimit e Organics	Qual
Client ID: LCSS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-37568 Client ID: PBS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO)	Batch ID: Analysis Date: Result PC 47 4.2 SampType: Batch ID: Analysis Date: Result PC ND	37568 4/12/2018 2L SPK value 10 50.00 5.000 MBLK 37568 4/12/2018 2L SPK value 10	R SPK Ref Val 0 Test R SPK Ref Val	tunNo: 504 eqNo: 16: %REC 94.2 85.0 tCode: EPA tcode: EPA tcode: 16: %REC	494 37385 LowLimit 70 70 A Method 494 37386 LowLimit	Units: mg/K HighLimit 130 130 8015M/D: Die Units: mg/K HighLimit	Sg %RPD esel Range Sg %RPD	RPDLimit e Organics RPDLimit	Qual
Client ID: LCSS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-37568 Client ID: PBS Prep Date: 4/12/2018 Analyte Diesel Range Organics (DRO) Motor Oil Range Organics (MRO)	Batch ID: Analysis Date: Result PC 47 4.2 SampType: Batch ID: Analysis Date: Result PC ND ND	37568 4/12/2018 2L SPK value 10 50.00 5.000 MBLK 37568 4/12/2018 2L SPK value 10 50	R SPK Ref Val 0 Test R SPK Ref Val	tunNo: 504 seqNo: 16: %REC 94.2 85.0 tCode: EPA tcode: EPA tcode: 16: %REC	494 37385 LowLimit 70 70 A Method 494 37386 LowLimit	Units: mg/K HighLimit 130 130 8015M/D: Die Units: mg/K HighLimit	Sg %RPD esel Range Sg %RPD	RPDLimit e Organics RPDLimit	Qual

**Qualifiers:** 

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Page 7 of 9

Sample ID MB-37562	SampType: MBLK TestCode: EPA Method					8015D: Gaso	line Rang	е		
Client ID: PBS	Batch ID: 37562 RunNo: 50508					0508				
Prep Date: 4/11/2018	Analysis D	ate: 4/	12/2018	S	SeqNo: 1	638726	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.1	15	316			
	the second residence of the second				and the second se	and the second se	Constant of the local data and the	and sold strength of the local division of the sold strength of the sold	the second s	and the second se
Sample ID LCS-37562	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Sample ID LCS-37562 Client ID: LCSS	SampT Batch	ype: LC	:S 562	Tesi	tCode: El	PA Method 0508	8015D: Gaso	line Rang	e	
Sample ID LCS-37562 Client ID: LCSS Prep Date: 4/11/2018	SampT Batch Analysis D	ype: LC 1D: 37 0ate: 4/	S 562 12/2018	Tes R S	tCode: El RunNo: 5 SeqNo: 1	PA Method 0508 638727	8015D: Gaso Units: mg/K	line Rang	e	
Sample ID LCS-37562 Client ID: LCSS Prep Date: 4/11/2018 Analyte	SampT Batch Analysis D Result	ype: LC n ID: 37 )ate: 4/ PQL	: <b>S</b> 562 12/2018 SPK value	Tesi R S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 0508 638727 LowLimit	8015D: Gaso Units: mg/K HighLimit	line Rang g %RPD	e RPDLimit	Qual
Sample ID LCS-37562 Client ID: LCSS Prep Date: 4/11/2018 Analyte Gasoline Range Organics (GRO)	SampT Batch Analysis D Result 29	ype: LC n ID: 37 Date: 4/ PQL 5.0	562 12/2018 SPK value 25.00	Tesi R S SPK Ref Val 0	tCode: El RunNo: 5 GeqNo: 1 %REC 115	PA Method 0508 638727 LowLimit 75.9	8015D: Gaso Units: mg/K HighLimit 131	line Rang g %RPD	e RPDLimit	Qual

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- Page 8 of 9

WO#: **1804628** 

Client: Project: Blagg Engineering NEBU 037

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Sample ID MB-37562	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 37	562	F	RunNo: 50508					
Prep Date: 4/11/2018	Analysis D	Date: 4/	12/2018	S	SeqNo: 1	638765	Units: mg/M	(g		
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	0.87		1.000		87.5	80	120			
Sample ID LCS-37562	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		an a
Client ID: LCSS	Batc	h ID: 37	562	F	RunNo: 5	0508				
Prep Date: 4/11/2018	Analysis E	Date: 4/	12/2018	S	SeqNo: 1	638766	Units: mg/M	ξg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.0	77.3	128			
Toluene	0.90	0.050	1.000	0	89.7	79.2	125			
Ethylbenzene	0.89	0.050	1.000	0	89.2	80.7	127			
Xylenes, Total	2.7	0.10	3.000	0	91.2	81.6	129			

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- W Sample container temperature is out of limit as specified
- Page 9 of 9

HALL Hall Environment ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-39 Website: www.	al Analysis Laborato 4901 Hawkins Ibuquerque, NM 871 75 FAX: 505-345-41 hallenvironmental.co	ory NE 109 <b>San</b> 107 om	nple Log-In Che	eck List
Client Name: BLAGG Work Order Number	er: 1804628	i Salah ya Boot Bray Calanach (Dorma Sana	RcptNo: 1	
Received By: Anne Thorne 4/12/2018 8:15:00 A	M	arme An	~	
Completed By: Anne Thorne 4/12/2018 8:25:23 A	M	Den. A.		
Reviewed By: Two 4/12/18		Cana Ji C		
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🖌	No 🗌	Not Present	
2. How was the sample delivered?	<u>Courier</u>			
<ul><li>Log In</li><li>3. Was an attempt made to cool the samples?</li></ul>	Yes 🖌	No 🗌	NA 🗌	
4. Were all samples received at a temperature of $>0^{\circ}$ C to $6.0^{\circ}$ 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 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗸	No	for pH: (<2 or >1)	2 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes 🖌	No 🗌	Adjusted?	
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	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 Ph	one 🗌 Fax	In Person	
Regarding:			Nammal Natural Malantinaponanonenaponaponaponaponaponaponaponaponaponapo	
Client Instructions:	annagatati ti addi carifit tar a lon, engan secreta			
16. Additional remarks:				
17. <u>Cooler Information</u>				
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date S	Signed By		
I I.3 Good Yes		ran inge stad anti- i fan ta fan an an an an an ar an ar		

WO#: **1808219** *15-Aug-18* 

Client: Blagg Engineering Project: NEBU 37

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Sample ID MB-39721	SampType: m	TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 39	F	lunNo: 53	3375					
Prep Date: 8/10/2018	Analysis Date: 8/10/2018 SeqNo: 1757740				757740	Units: mg/Kg			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND 1.5								
							aloud autophysics of the barriers of		
Sample ID LCS-39721	SampType: Ic	s	Tes	tCode: EF	PA Method	300.0: Anion	s		
Sample ID LCS-39721 Client ID: LCSS	SampType: Ic Batch ID: 3	s 9721	Tes	tCode: EF	PA Method 3375	300.0: Anion	S		
Sample ID LCS-39721 Client ID: LCSS Prep Date: 8/10/2018	SampType: Ic Batch ID: 39 Analysis Date: 8	s 9721 8/10/2018	Tes F S	tCode: EF RunNo: 53 SeqNo: 17	PA Method 3375 757741	300.0: Anion Units: mg/K	s		
Sample ID LCS-39721 Client ID: LCSS Prep Date: 8/10/2018 Analyte	SampType: Ic Batch ID: 39 Analysis Date: 8 Result PQL	s 9721 9/10/2018 SPK value	Tes F S SPK Ref Val	tCode: EF RunNo: 53 SeqNo: 17 %REC	PA Method 3375 757741 LowLimit	300.0: Anion Units: mg/K HighLimit	s g %RPD	RPDLimit	Qual

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Page 3 of 6

Client: Project:

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Blagg Engineering NEBU 37

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Sample ID MB-39604	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 39604			RunNo: 53261						
Prep Date: 8/6/2018	Analysis Date: 8/7/2018			SeqNo: 1753037 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		87.2	50.6	138			
Sample ID LCS-39604	SampT	Type: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batcl	h ID: 39	604	F	RunNo: 5	3261				
Prep Date: 8/6/2018	Analysis D	Date: 8/	7/2018	SeqNo: 1753038 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.6	70	130			
Surr: DNOP	4.2		5.000		84.0	50.6	138			

Qualifiers:

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Page 4 of 6

Client: Blagg Engineering Project: NEBU 37

Sample ID Ics-39589	SampT	Type: LC	S4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BatchQC	Batcl	h ID: 39	589	RunNo: 53243						
Prep Date: 8/3/2018	Analysis Date: 8/6/2018			SeqNo: 1752198			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.45		0.5000		89.4	70	130			
							and the state of the		and the second second second second second second	
Sample ID mb-39589	SampT	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Sample ID mb-39589 Client ID: PBS	Samp1 Batcl	Type: <b>ME</b> h ID: <b>39</b>	3LK 589	Tes	tCode: El	PA Method 3243	8260B: Volat	iles Short	List	
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018	SampT Batcl Analysis D	Type: <b>ME</b> h ID: <b>39</b> Date: <b>8</b> /	3LK 589 6/2018	Tes F S	tCode: El RunNo: 5 SeqNo: 1	PA Method 3243 752199	8260B: Volat Units: mg/K	iles Short	List	
Sample ID <b>mb-39589</b> Client ID: <b>PBS</b> Prep Date: <b>8/3/2018</b> Analyte	SampT Batcl Analysis D Result	Fype: <b>ME</b> h ID: <b>39</b> Date: <b>8</b> / PQL	BLK 589 6/2018 SPK value	Tes F S SPK Ref Val	tCode: Ef RunNo: 5: SeqNo: 1 %REC	PA Method 3243 752199 LowLimit	8260B: Volat Units: mg/K HighLimit	iles Short g %RPD	List	Qual
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018 Analyte Benzene	SampT Batcl Analysis D Result ND	Fype: <b>ME</b> h ID: <b>39</b> Date: <b>8</b> / PQL 0.025	3LK 589 6/2018 SPK value	Tes F S SPK Ref Val	tCode: Ef RunNo: 5 SeqNo: 1 %REC	PA Method 3243 752199 LowLimit	8260B: Volat Units: mg/K HighLimit	iles Short g %RPD	List RPDLimit	Qual
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018 Analyte Benzene Toluene	SampT Batcl Analysis D Result ND ND	Fype: ME h ID: 39 Date: 8/ PQL 0.025 0.050	3LK 589 6/2018 SPK value	Tes F S SPK Ref Val	tCode: EF RunNo: 5 SeqNo: 1 %REC	PA Method 3243 752199 LowLimit	8260B: Volat Units: mg/K HighLimit	iles Short g %RPD	List RPDLimit	Qual
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018 Analyte Benzene Toluene Ethylbenzene	SampT Batcl Analysis D Result ND ND ND	Fype: ME h ID: 399 Date: 8/ PQL 0.025 0.050 0.050	3LK 589 6/2018 SPK value	Tes F SPK Ref Val	tCode: EF RunNo: 5: SeqNo: 1 %REC	PA Method 3243 752199 LowLimit	8260B: Volat Units: mg/K HighLimit	iles Short g %RPD	List RPDLimit	Qual
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total	SampT Batcl Analysis D Result ND ND ND ND	Type: ME h ID: 399 Date: 8/ PQL 0.025 0.025 0.050 0.050 0.10	3LK 589 6/2018 SPK value	Tes F S SPK Ref Val	tCode: Ef RunNo: 5 SeqNo: 1 %REC	PA Method 3243 752199 LowLimit	8260B: Volat Units: mg/K HighLimit	iles Short g %RPD	List RPDLimit	Qual
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018 Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	SampT Batcl Analysis D Result ND ND ND ND ND ND	Type: ME h ID: 394 Date: 8/ PQL 0.025 0.050 0.050 0.050 0.10	3LK 589 6/2018 SPK value 0.5000	Tes F SPK Ref Val	tCode: EF RunNo: 5 GeqNo: 1 %REC 125	PA Method 3243 752199 LowLimit 70	8260B: Volat Units: mg/K HighLimit 130	iles Short g %RPD	List RPDLimit	Qual

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- Page 5 of 6

## Client: Project:

Blagg Engineering NEBU 37

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Sample ID Ics-39589	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 39589			RunNo: 53243						
Prep Date: 8/3/2018	Analysis Date: 8/6/2018			SeqNo: 1752062 Units: mg/Kg				(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	70	130			
Surr: BFB	530		500.0		106	70	130			
Construction of the second and the system in the second	and a second							the theory of the state of the second protocol		and the second
Sample ID mb-39589	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D Mod:	Gasoline	Range	
Sample ID mb-39589 Client ID: PBS	SampT Batcl	ype: ME	3LK 589	Tes	tCode: El RunNo: 5	PA Method 3243	8015D Mod:	Gasoline	Range	
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018	SampT Batcl Analysis D	Type: <b>ME</b> h ID: <b>39</b> Date: <b>8</b> /	3LK 589 6/2018	Tes F S	tCode: El RunNo: 5 SeqNo: 1	PA Method 3243 752063	8015D Mod: Units: mg/ł	Gasoline (g	Range	
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018 Analyte	SampT Batcl Analysis D Result	Type: ME h ID: 39 Date: 8/ PQL	3LK 589 6/2018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 3243 752063 LowLimit	8015D Mod: Units: mg/F HighLimit	Gasoline (g %RPD	Range RPDLimit	Qual
Sample ID mb-39589 Client ID: PBS Prep Date: 8/3/2018 Analyte Gasoline Range Organics (GRO)	SampT Batcl Analysis D Result ND	Type: ME h ID: 39 Date: 8/ PQL 5.0	3LK 589 6/2018 SPK value	Tes F S SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC	PA Method 3243 752063 LowLimit	8015D Mod: Units: mg/ł HighLimit	Gasoline (g %RPD	Range RPDLimit	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

Page 6 of 6

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Alb TEL: 505-345-397 Website: www.ho	l Analysis Laborato 4901 Hawkins I uquerque, NM 871 5 FAX: 505-345-41 allenvironmental.co	NE 09 07 07	ple Log-In C	heck List
Client Name: BLAGG	Work Order Number	1808219		RcptNo:	1
Received By: Anne Thome	8/3/2018 7:30:00 AM 8/3/2018 1:27:20 PM		ame Am	~	
Reviewed By: =0 Labeled by: #08/00	08/63/18		anne Arm	~	
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 temperatur	e of >0° 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) prope	erly 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 brok	ken?	Yes	No 🗹	# of preserved bottles checked	8
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🖌	No 🗌	for pH: (<2 or	>12 unless noted)
12. Are matrices correctly identified on Chain of	f Custody?	Yes 🗹	No 🗌	Adjusted?	
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	Checked by:	
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date	***	2000-02-000-000-000-000-00-00-00-00-00-0	-	
By Whom:	Via:	eMail Pho	one 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:					
17. <u>Cooler Information</u> Cooler No Temp °C Condition 1 1 1.4 Good Y	Seal Intact Seal No Sea	Seal Date S	igned By		

1