

June 14, 2018

NMOCD District I Olivia Yu 1625 N French Dr Hobbs, NM 88240 Souder, Miller & Associates•201 S. Halagueno St.•Carlsbad, NM 88220 (575) 689-8801

APPROVED

By Olivia Yu at 12:10 pm, Sep 13, 2018

#5E27122-BG4

NMOCD will approve of 1RP-4765 for closure, pending stipulations in email communication.

SUBJECT: SOIL REMEDIATION CLOSURE REPORT FOR THE BALLARD DE FEDERAL #2 (1RP-4765), LEA COUNTY, NEW MEXICO

Dear Ms. Yu:

On behalf of Marathon Oil Company (Marathon), Souder, Miller & Associates (SMA) has prepared this CLOSURE REPORT that describes the assessment, delineation and remediation for a release associated with the Ballard DE Federal #2. The site is in UNIT C, SECTION 27, TOWNSHIP 20S, RANGE 34E, NMPM, Lea County, New Mexico, on Federal land. Figure 1 illustrates the vicinity and location of the site. Table 1 summarizes information regarding the release.

Table 1: Rele	ease information and Site Ranking
Name	Ballard DE Federal #2
Company	Marathon Oil Company
Incident Number	1RP-4765
API Number	30-025-02465
Location	32.5504454, -103.5491486
Estimated Date of Release	7/4/2017
Date Reported to NMOCD	7/26/2017
Land Owner	BLM
Reported To	NMOCD District I
Source of Release	Flowline Near Wellhead
Released Material	Oil
Released Volume	10 bbls
Recovered Volume	unknown
Net Release	<10 bbls
Nearest Waterway	Unnamed drainage is approximately 2 miles southeast of location
Depth to Groundwater	Estimated to be greater than 100 feet
Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	0
SMA Response Dates	5/7/2018, 5/23/2018

Table 2

1.0 Background

A release occurred from the flowline near the wellhead of the Ballard DE Federal #2, due to human error. Visually affected soils were removed at the time of release by Marathon operations group.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 26 miles east of Hobbs, with an elevation of approximately 3,685 feet above sea level. SMA searched the New Mexico State Engineer's Office (NMOSE) online water well database for water wells in the vicinity of the release. Several wells are located within a three-mile radius of the site. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be greater than 200 feet below ground surface (bgs).

Recommended Remediation Action Levels (RRALs) are determined by the site ranking according to the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (1993). Below in Table 2 are the remediation standards and the site ranking for this location. Justification for this site ranking is found in Figure 1 and Appendix B.

Table 2.			
Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
ТРН	5000 PPM	1000 PPM	100 PPM

Depth to Groundwater NMOCD Numeric Rank < 50 BGS = 20 50' to 99' = 10 >100' = 0 0 **Distance to Nearest Surface Water** NMOCD Numeric Rank < 200' = 20 200' - 1000' = 10 >1000' = 0 0 **Well Head Protection NMOCD Numeric Rank** <1000' (or <200' domestic) = 20 0 > 1000' = 0 0 **Total Site Ranking**

3.0 Release Characterization

On May 7, 2018, SMA field personnel assessed the release area. The site had previously been excavated by Marathon Oil. samples were collected from the bottom of the existing excavation, which varied from three to five feet bgs, six sidewall soil samples were also collected. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for MRO, DRO, and GRO by EPA Method 8015D, BTEX by EPA Method 8021, and Chlorides by Method 300. Sample

Ballard DE Fed #2 June 7, 2018

locations are depicted on Figure 2. All field screening and laboratory results are summarized in Table 3. Laboratory reports are included in Appendix C.

Two sidewall samples (SW2 and SW3) returned results of elevated hydrocarbon, while all samples returned chloride results at acceptable levels.

4.0 Soil Remediation

On May 23, 2018, after approval from area utilities via 811, SMA field personnel returned to the location with a backhoe service to oversee excavation of remaining impacted soil. SW2 and SW3 were excavated an additional two feet to the north and east. Two additional samples were collected from each area to confirm contamination was removed.

As summarized in Table 3, the additional excavation appeared to remove remaining contamination, and all closure samples are within NMOCD's recommended remediation action levels (RRAL's). No further action is recommended at this location.

5.0 Scope and Limitations

The scope of our services consisted of the performance of assessment sampling, verification of release stabilization, regulatory liaison, and preparation of this closure report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-8801 or Shawna Chubbuck at 505-325-7535.

Submitted by: SOUDER, MILLER & ASSOCIATES Reviewed by:

1 Austr Merant

Austin Weyant Project Scientist

Shauna Chubbuck

Shawna Chubbuck Senior Scientist

ATTACHMENTS:

Figures:

Figure 1: Vicinity and Well Head Protection Map Figure 2: Site and Sample Location Map

Tables:

Table 3: Summary of Sample Results

Appendices:

Appendix A: Form C141 Initial and Final Appendix B: NMOSE Wells Report Appendix C: Laboratory Analytical Reports

FIGURE 1 VICINITY AND NMOSE DATA MAP



FIGURE 2 SITE AND SAMPLE LOCATION MAP



TABLE 3 SUMMARY SAMPLE RESULTS

Ballard Fed #2

Sample				BTEX	Benzene	GRO	DRO	MRO	Total TPH	CI-
Number on Figure 2	Sample Date	Depth (feet bgs)	Action	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	Laboratory mg/Kg
NMOCD RRAL's for Site Ranking 0		50 mg/Kg	10 mg/Kg				5000 mg/Kg			
L1	5/7/2018	4	in-situ	<0.21	<0.024	<4.8	290	1400	1690	<30
L2	5/7/2018	5	in-situ	<0.21	<0.024	<4.9	80	340	420	560
L3	5/7/2018	3	in-situ	<0.21	<0.024	<4.7	64	150	214	<30
SW1	5/7/2018	sidewall	in-situ	<0.21	<0.025	<5.0	110	640	750	<30
SW2	5/7/2018	sidewall	excavated	<1.05	<0.12	55	5800	4400	10255	<30
3002	5/23/2018	sidewall	in-situ			<4.7	<10	<50	<65	
SW3	5/7/2018	sidewall	excavated	<1.1	<0.12	<24	6,800	5,000	11,800	<30
5005	5/23/2018	sidewall	in-situ			<4.7	<10	<50	<65	
SW4	5/7/2018	sidewall	in-situ	<0.23	<0.023	<4.6	29	130	159	<30
SW5	5/7/2018	sidewall	in-situ	<0.21	<0.024	<4.8	83	490	61	110
SW6	5/7/2018	sidewall	in-situ	<0.23	<0.024	<4.9	61	150	211	<30

Table 3.

"--" = Not Analyzed

APPENDIX A FORM C141 INITIAL AND FINAL

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Initial Report **Final Report** Name of Company Marathon Oil Company Contact Wendy Gram Address 5555 San Felipe Street, Houston, Texas 77056 Telephone No. 701-690-6519 (cell) 713-296-2862 (office) Facility Name Ballard DE Federal #2 Facility Type Oil well Surface Owner IBLM Mineral Owner BLM API No. 30-025-02465 y III LOCATION OF RELEASE Feet from the Unit Letter Section Township Range Feet from the North/South Line East/West Line County С 27 20S 34E 330 North 2310 West Lea Latitude 32.5504454 Longitude -103.5491486 NAD83

NATURE OF RELEASE

Type of Release Spill	Volume of Release ≈ 10 barrels	Volume Recovered ≈ 10 barrels
Source of Release Unknown – Incident under investigation	Date and Hour of Occurrence 7/4/2017	Date and Hour of Discovery 7/4/2017 1 PM.
Was Immediate Notice Given?	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.
If a Watercourse was Impacted, Describe Fully.* Not applicable.	RECEIVED	
	By Olivia Yu at 1	1:14 am, Jul 26, 2017
Describe Cause of Problem and Remedial Action Taken.* Estimated spill volume of ten barrels coming from area around the wellh been shut in.	ead and flowline. Cause is under inve	stigation. Spill did not leave pad. Well has
Describe Area Affected and Cleanup Action Taken.* Removed impacted soils.		
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective ac he NMOCD marked as "Final Report" ite contamination that pose a threat to g	ctions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health
	OIL CONSERV	VATION DIVISION
Wendy Gram Signature:		orf
Printed Name: Wendy Gram	Approved by Environmental Speciali	st.
Title: Sr. HES Professional	Approval Date: 7/26/2017	Expiration Date:
E-mail Address: wwgram@marathonoil.com	Conditions of Approval:	Attached
Date: July 19, 2017 Phone: 701-690-6519 (cell) 713-296-2862 (office)	see attached directive	
* Attach Additional Sheets If Necessary	1RP-4765 nOY172	0746925

pOY1720753645

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _7/19/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number _1RP-4765_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _8/26/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

APPENDIX B NMOSE WELLS REPORT



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD has been replaced, O=orphaned, C=the file is	(0	qua	rters	s a	re 1:	=NW :	2=NE 3	3=SW 4=5	SE)					
water right file.)	closed)	((qua	ters	s a	re sr	nalles	st to la	rgest) (NAD83 UT	'M in me	eters)	(n feet)	
	POD Sub-		Q	Q	Q								Depth	Depth	Water
POD Number	Code basin Co	ounty				Sec	Tws	Rng)	(Y	Distance	-	-	Column
CP 01389 POD1	CP	LE	1	1	1	34	20S	34E	63572	36007	'33 🌍	1719	1250	1005	245
CP 00800 POD1	CP	LE	2	2	2	22	20S	34E	63700	7 360399	94* 🌍	1795	220		
CP 01330 POD1	CP	LE	4	2	1	34	20S	34E	63619 ⁻	7 36004	83 🌍	1896	1349	684	665
CP 01289 POD1	CP	LE	4	4	2	34	20S	34E	63703	7 36002	261 🌍	2269	1222	651	571
CP 01288 POD1	CP	LE	4	4	2	34	20S	34E	637134	4 36002	204 🌍	2358	1255	758	497
CP 01204 POD1	CP	LE	3	1	1	25	20S	34E	63875	5 36022	250 🌍	2536	370		
CP 01352 POD1	CP	LE	3	1	4	34	20S	34E	63655	9 35997	'16 🌍	2684	1270	785	485
CP 00655 POD1	CP	LE		3	1	14	20S	34E	637294	4 360510	08* 🌍	2931	210		
CP 00799 POD1	CP	LE	4	3	4	34	20S	34E	63666	6 359936	64* 🌍	3048	100		
CP 01335 POD1	CP	LE	4	1	4	35	20S	34E	63820	5 35997	'36 🌍	3304	1307	735	572
CP 01334 POD1	CP	LE	1	2	4	35	20S	34E	638402	2 35998	879 🌍	3317	1253	733	520
CP 00665	CP	LE		1	4	24	20S	34E	63974	360312	28* 😜	3596	698	270	428
CP 01290 POD1	CP	LE		3	1	02	21S	33E	63711	4 35988	855 🌍	3635	1250	725	525
CP 00802 POD1	CP	LE	3	3	2	02	21S	33E	63700	1 35986	572 🌍	3787	1154		
CP 01317 POD1	CP	LE	1	3	2	02	21S	33E	636884	4 35984	50 🌍	3984	1250	1025	225
CP 00657 POD1	CP	LE		3	3	17	20S	34E	63246	5 360423	39* 🌍	4191	165		
CP 00579	CP	LE		2	2	02	21S	33E	63743	359820	69* 🌍	4286	125	100	25
CP 00803 POD1	CP	LE	3	2	2	02	21S	33E	63733	7 359810	68* 🌍	4356	1100		
CP 00804 POD1	CP	LE	3	2	2	02	21S	33E	63733	7 359810	68* 🌍	4356	170		
CP 01316 POD1	CP	LE	3	2	4	02	21S	33E	63743	2 35977	'09 🌍	4824	1370		
CP 00797 POD1	CP	LE	1	2	4	02	21S	33E	63734	359756	64* 🌍	4945	110		
CP 00796 POD1	CP	LE	2	2	4	02	21S	33E	63754	8 359756	64* 🌍	4994	102		

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Average Depth to Water: 679 feet Minimum Depth: 100 feet Maximum Depth: 1025 feet Record Count: 22

UTMNAD83 Radius Search (in meters):

Easting (X): 636221.81

Northing (Y): 3602379.6

Radius: 5000

APPENDIX C LABORATORY ANALYTICAL REPORTS



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

May 17, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1805496

RE: Ballard 2

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/9/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/17/2018

CLIENT: Souder, Miller & Associates Project: Ballard 2				lient Sampl Collection 1		-4 /2018 12:01:00 PM		
Lab ID: 1805496-001	Matrix: S	SOIL		Received Date: 5/9/2018 9:30:00 AM				
Analyses	Result	PQL Q	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analys	: MRA	
Chloride	ND	30		mg/Kg	20	5/11/2018 3:35:32 PM	38068	
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	;				Analys	TOM	
Diesel Range Organics (DRO)	290	100		mg/Kg	10	5/13/2018 2:26:37 PM	38039	
Motor Oil Range Organics (MRO)	1400	500		mg/Kg	10	5/13/2018 2:26:37 PM	38039	
Surr: DNOP	0	70-130	S	%Rec	10	5/13/2018 2:26:37 PM	38039	
EPA METHOD 8015D: GASOLINE RAM	NGE					Analys	: NSB	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2018 1:11:58 PM	38023	
Surr: BFB	83.9	15-316		%Rec	1	5/10/2018 1:11:58 PM	38023	
EPA METHOD 8021B: VOLATILES						Analys	: NSB	
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	5/10/2018 1:11:58 PM	38023	
Benzene	ND	0.024		mg/Kg	1	5/10/2018 1:11:58 PM	38023	
Toluene	ND	0.048		mg/Kg	1	5/10/2018 1:11:58 PM	38023	
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2018 1:11:58 PM	38023	
Xylenes, Total	ND	0.097		mg/Kg	1	5/10/2018 1:11:58 PM	38023	
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	5/10/2018 1:11:58 PM	38023	

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 1 of 14
- 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: 5/17/2018

CLIENT: Souder, Miller & Associates Project: Ballard 2	Client Sample ID: L2-5 Collection Date: 5/7/2018 12:08:00 PM								
Lab ID: 1805496-002	Matrix:	SOIL			/2018 9:30:00 AM				
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	560	30	mg/Kg	20	5/11/2018 4:12:45 PM	38068			
EPA METHOD 8015M/D: DIESEL RANGE		S			Analyst	: Irm			
Diesel Range Organics (DRO)	80	9.9	mg/Kg	1	5/15/2018 3:10:18 AM	38039			
Motor Oil Range Organics (MRO)	340	50	mg/Kg	1	5/15/2018 3:10:18 AM	38039			
Surr: DNOP	104	70-130	%Rec	1	5/15/2018 3:10:18 AM	38039			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2018 2:22:05 PM	38023			
Surr: BFB	84.5	15-316	%Rec	1	5/10/2018 2:22:05 PM	38023			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	5/10/2018 2:22:05 PM	38023			
Benzene	ND	0.024	mg/Kg	1	5/10/2018 2:22:05 PM	38023			
Toluene	ND	0.049	mg/Kg	1	5/10/2018 2:22:05 PM	38023			
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2018 2:22:05 PM	38023			
Xylenes, Total	ND	0.097	mg/Kg	1	5/10/2018 2:22:05 PM	38023			
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	5/10/2018 2:22:05 PM	38023			

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
- 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 14
- 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 1805496 Date Reported: 5/17/2018

CLIENT: Souder, Miller & Associates		(Client Samp	le ID: L3	-3				
Project: Ballard 2	Collection Date: 5/7/2018 12:11:00 PM								
Lab ID: 1805496-003	Matrix:	SOIL	Received	Date: 5 /9	/2018 9:30:00 AM				
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analyst	MRA			
Chloride	ND	30	mg/Kg	20	5/11/2018 4:25:10 PM	38068			
EPA METHOD 8015M/D: DIESEL RANGE		S			Analyst	: том			
Diesel Range Organics (DRO)	64	9.9	mg/Kg	1	5/13/2018 3:11:06 PM	38039			
Motor Oil Range Organics (MRO)	150	50	mg/Kg	1	5/13/2018 3:11:06 PM	38039			
Surr: DNOP	106	70-130	%Rec	1	5/13/2018 3:11:06 PM	38039			
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB			
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/10/2018 3:32:23 PM	38023			
Surr: BFB	91.8	15-316	%Rec	1	5/10/2018 3:32:23 PM	38023			
EPA METHOD 8021B: VOLATILES					Analyst	: NSB			
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	5/10/2018 3:32:23 PM	38023			
Benzene	ND	0.024	mg/Kg	1	5/10/2018 3:32:23 PM	38023			
Toluene	ND	0.047	mg/Kg	1	5/10/2018 3:32:23 PM	38023			
Ethylbenzene	ND	0.047	mg/Kg	1	5/10/2018 3:32:23 PM	38023			
Xylenes, Total	ND	0.095	mg/Kg	1	5/10/2018 3:32:23 PM	38023			
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	5/10/2018 3:32:23 PM	38023			

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 3 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/17/2018

CLIENT: Souder, Miller & AssociatesProject:Ballard 2Lab ID:1805496-004	Matrix:	SOIL		Date: 5/7	71 /2018 12:03:00 PM /2018 9:30:00 AM	
Analyses	Result	PQL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	30	mg/Kg	20	5/11/2018 4:37:34 PM	38068
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	6			Analyst	том
Diesel Range Organics (DRO)	110	100	mg/Kg	10	5/13/2018 3:33:15 PM	38039
Motor Oil Range Organics (MRO)	640	500	mg/Kg	10	5/13/2018 3:33:15 PM	38039
Surr: DNOP	0	70-130	S %Rec	10	5/13/2018 3:33:15 PM	38039
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/10/2018 3:55:49 PM	38023
Surr: BFB	85.2	15-316	%Rec	1	5/10/2018 3:55:49 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	5/10/2018 3:55:49 PM	38023
Benzene	ND	0.025	mg/Kg	1	5/10/2018 3:55:49 PM	38023
Toluene	ND	0.050	mg/Kg	1	5/10/2018 3:55:49 PM	38023
Ethylbenzene	ND	0.050	mg/Kg	1	5/10/2018 3:55:49 PM	38023
Xylenes, Total	ND	0.10	mg/Kg	1	5/10/2018 3:55:49 PM	38023
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	5/10/2018 3:55:49 PM	38023

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

* Value exceeds Maximum Contaminant Level.

- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/17/2018

5 5/11/2018 10:23:46 AM 38023

CLIENT: Souder, Miller & Associates Project: Ballard 2			C	lient Sampl Collection		V2 V/2018 12:08:00 PM	
Lab ID: 1805496-005	Matrix:	SOIL		Received	Date: 5/9	/2018 9:30:00 AM	
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	ND	30		mg/Kg	20	5/14/2018 5:37:10 PM	38091
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	5				Analys	t: TOM
Diesel Range Organics (DRO)	5800	100		mg/Kg	10	5/13/2018 3:55:30 PM	38039
Motor Oil Range Organics (MRO)	4400	500		mg/Kg	10	5/13/2018 3:55:30 PM	38039
Surr: DNOP	0	70-130	S	%Rec	10	5/13/2018 3:55:30 PM	38039
EPA METHOD 8015D: GASOLINE RAN	IGE					Analys	t: NSB
Gasoline Range Organics (GRO)	55	23		mg/Kg	5	5/11/2018 10:23:46 AM	1 38023
Surr: BFB	139	15-316		%Rec	5	5/11/2018 10:23:46 AM	1 38023
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.47	D	mg/Kg	5	5/11/2018 10:23:46 AM	1 38023
Benzene	ND	0.12	D	mg/Kg	5	5/11/2018 10:23:46 AM	1 38023
Toluene	ND	0.23	D	mg/Kg	5	5/11/2018 10:23:46 AM	1 38023
Ethylbenzene	ND	0.23	D	mg/Kg	5	5/11/2018 10:23:46 AM	1 38023
Xylenes, Total	ND	0.47	D	mg/Kg	5	5/11/2018 10:23:46 AM	1 38023

80-120

D

%Rec

108

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.

- 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 5 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 5/17/2018

5/11/2018 11:10:23 AM 38023

5/11/2018 11:10:23 AM 38023

CLIENT:Souder, Miller & AssociatesProject:Ballard 2Lab ID:1805496-006	Client Sample ID: SW3Collection Date: 5/7/2018 12:13:00 PMMatrix: SOILReceived Date: 5/9/2018 9:30:00 AM							
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	MRA	
Chloride	ND	30		mg/Kg	20	5/14/2018 5:49:34 PM	38091	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS					Analyst	: Irm	
Diesel Range Organics (DRO)	6800	1000		mg/Kg	100	5/12/2018 1:21:36 AM	38039	
Motor Oil Range Organics (MRO)	5000	5000		mg/Kg	100	5/12/2018 1:21:36 AM	38039	
Surr: DNOP	0	70-130	S	%Rec	100	5/12/2018 1:21:36 AM	38039	
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	24	D	mg/Kg	5	5/11/2018 11:10:23 AM	38023	
Surr: BFB	91.2	15-316	D	%Rec	5	5/11/2018 11:10:23 AM	38023	
EPA METHOD 8021B: VOLATILES						Analyst	: NSB	
Methyl tert-butyl ether (MTBE)	ND	0.47	D	mg/Kg	5	5/11/2018 11:10:23 AM	38023	
Benzene	ND	0.12	D	mg/Kg	5	5/11/2018 11:10:23 AM	38023	
Toluene	ND	0.24	D	mg/Kg	5	5/11/2018 11:10:23 AM	38023	
Ethylbenzene	ND	0.24	D	mg/Kg	5	5/11/2018 11:10:23 AM	38023	

0.47

80-120

D

D

mg/Kg

%Rec

5

5

ND

102

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

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * 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 6 of 14
- 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: 5/17/2018

CLIENT: Souder, Miller & Associates		(Client Sampl	e ID: SV	/4	
Project: Ballard 2			Collection 2	Date: 5/7	/2018 12:15:00 PM	
Lab ID: 1805496-007	Matrix:	SOIL	Received	Date: 5 /9	/2018 9:30:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: MRA
Chloride	ND	30	mg/Kg	20	5/15/2018 9:12:40 AM	38095
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	6			Analys	st: Irm
Diesel Range Organics (DRO)	29	10	mg/Kg	1	5/15/2018 3:54:44 AM	38039
Motor Oil Range Organics (MRO)	130	50	mg/Kg	1	5/15/2018 3:54:44 AM	38039
Surr: DNOP	113	70-130	%Rec	1	5/15/2018 3:54:44 AM	38039
EPA METHOD 8015D: GASOLINE RAM	NGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/10/2018 5:06:15 PM	38023
Surr: BFB	88.6	15-316	%Rec	1	5/10/2018 5:06:15 PM	38023
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	5/10/2018 5:06:15 PM	38023
Benzene	ND	0.023	mg/Kg	1	5/10/2018 5:06:15 PM	38023
Toluene	ND	0.046	mg/Kg	1	5/10/2018 5:06:15 PM	38023
Ethylbenzene	ND	0.046	mg/Kg	1	5/10/2018 5:06:15 PM	38023
Xylenes, Total	ND	0.092	mg/Kg	1	5/10/2018 5:06:15 PM	38023
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	5/10/2018 5:06:15 PM	38023

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

- * Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 14 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 5/17/2018

CLIENT:Souder, Miller & AssociatesProject:Ballard 2Lab ID:1805496-008	Matrix:	SOIL		Date: 5/7	V5 7/2018 12:18:00 PM 9/2018 9:30:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	110	30	mg/Kg	20	5/15/2018 9:49:54 AM	38095
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS	6			Analyst	: Irm
Diesel Range Organics (DRO)	83	10	mg/Kg	1	5/15/2018 4:17:00 AM	38039
Motor Oil Range Organics (MRO)	490	50	mg/Kg	1	5/15/2018 4:17:00 AM	38039
Surr: DNOP	102	70-130	%Rec	1	5/15/2018 4:17:00 AM	38039
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/10/2018 5:29:44 PM	38023
Surr: BFB	84.5	15-316	%Rec	1	5/10/2018 5:29:44 PM	38023
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.096	mg/Kg	1	5/10/2018 5:29:44 PM	38023
Benzene	ND	0.024	mg/Kg	1	5/10/2018 5:29:44 PM	38023
Toluene	ND	0.048	mg/Kg	1	5/10/2018 5:29:44 PM	38023
Ethylbenzene	ND	0.048	mg/Kg	1	5/10/2018 5:29:44 PM	38023

0.096

80-120

mg/Kg

%Rec

1

1

5/10/2018 5:29:44 PM

5/10/2018 5:29:44 PM

38023

38023

ND

102

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

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

* 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 8 of 14
- 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: 5/17/2018

CLIENT: Souder, Miller & Associates Project: Ballard 2		(Client Sampl Collection 1		/6 /2018 12:21:00 PM	
Lab ID: 1805496-009	Matrix:	SOIL	Received	Date: 5 /9	/2018 9:30:00 AM	
Analyses	Result	PQL Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	5/15/2018 10:09:27 AM	/ 38095
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;			Analys	t: TOM
Diesel Range Organics (DRO)	61	10	mg/Kg	1	5/13/2018 5:24:52 PM	38039
Motor Oil Range Organics (MRO)	150	50	mg/Kg	1	5/13/2018 5:24:52 PM	38039
Surr: DNOP	104	70-130	%Rec	1	5/13/2018 5:24:52 PM	38039
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/10/2018 8:13:33 PM	38023
Surr: BFB	82.0	15-316	%Rec	1	5/10/2018 8:13:33 PM	38023
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.098	mg/Kg	1	5/10/2018 8:13:33 PM	38023
Benzene	ND	0.024	mg/Kg	1	5/10/2018 8:13:33 PM	38023
Toluene	ND	0.049	mg/Kg	1	5/10/2018 8:13:33 PM	38023
Ethylbenzene	ND	0.049	mg/Kg	1	5/10/2018 8:13:33 PM	38023
Xylenes, Total	ND	0.098	mg/Kg	1	5/10/2018 8:13:33 PM	38023
Surr: 4-Bromofluorobenzene	98.6	80-120	%Rec	1	5/10/2018 8:13:33 PM	38023

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 9 of 14
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Project:	Ballard 2										
Sample ID	MB-38068	SampTy	/pe: mb	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 38	068	F	RunNo: 5	1214				
Prep Date:	5/11/2018	Analysis Da	ate: 5/	11/2018	S	SeqNo: 1	664864	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-38068	SampTy	/pe: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 38	068	F	RunNo: 5	1214				
Prep Date:	5/11/2018	Analysis Da	ate: 5/	11/2018	5	SeqNo: 1	664865	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.2	90	110			
Sample ID	MB-38091	SampTy	/pe: m k	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 38	091	F	RunNo: 5	1247				
Prep Date:	5/14/2018	Analysis Da	ate: 5/	14/2018	S	SeqNo: 1	666509	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-38091	SampTy	/pe: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 38	091	F	RunNo: 5	1247				
Prep Date:	5/14/2018	Analysis Da	ate: 5/	14/2018	S	SeqNo: 1	666510	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	90.9	90	110			
Sample ID	MB-38095	SampTy	/pe: mk	olk	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	ID: 38	095	F	RunNo: 5	1299				
Prep Date:	5/14/2018	Analysis Da	ate: 5/	15/2018	5	SeqNo: 1	667708	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-38095	SampTy	/pe: Ics	;	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 38	095		RunNo: 5					
Prep Date:	5/14/2018	Analysis Da	ate: 5/	15/2018	5	SeqNo: 1	667709	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	91.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 10 of 14

WO#: **1805496** *17-May-18*

ND

ND

9.9

10

50

10.00

Client: Project:	Souder, N Ballard 2	Miller & As	ssociate	es							
Sample ID LC	S-38039	SampTy	ype: LC	S	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LC	SS	Batch	ID: 38	039	R	unNo: 5	1216				
Prep Date: 5/	/10/2018	Analysis Da	ate: 5/	11/2018	S	eqNo: 1	664753	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Orga	nics (DRO)	48	10	50.00	0	96.4	70	130			
Surr: DNOP		4.8		5.000		96.4	70	130			
Sample ID ME	3-38039	SampTy	ype: ME	BLK	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PB	S	Batch	ID: 38	039	R	unNo: 5	1216				
Prep Date: 5/	/10/2018	Analysis Da	ate: 5/	11/2018	S	eqNo: 1	664754	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

99.2

70

130

Qualifiers:

Diesel Range Organics (DRO)

Surr: DNOP

Motor Oil Range Organics (MRO)

- * 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 11 of 14

WO#: **1805496** *17-May-18*

Client: Project:	Souder, N Ballard 2	Ailler & As	ssociate	es							
Sample ID	MB-38023	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 38	023	F	RunNo: 5	1171				
Prep Date:	5/9/2018	Analysis D	ate: 5/	/10/2018	5	SeqNo: 1	662961	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 890	5.0	1000		89.2	15	316			
Sample ID	LCS-38023	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: 38	023	F	RunNo: 5	1171				
Prep Date:	5/9/2018	Analysis D	ate: 5/	/10/2018	S	SeqNo: 1	662962	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	26	5.0	25.00	0	104	75.9	131			
Surr: BFB		1100		1000		105	15	316			
Sample ID	1805496-001AMS	SampT	ype: M	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	L1-4	Batch	ID: 38	023	F	RunNo: 5	1171				
Prep Date:	5/9/2018	Analysis D	ate: 5/	/10/2018	5	SeqNo: 1	662965	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	4.6	23.11	0	106	77.8	128			
Surr: BFB		900		924.2		97.1	15	316			
Sample ID	1805496-001AMSI	D SampT	ype: M	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	L1-4	Batch	ID: 38	023	F	RunNo: 5	1171				
Prep Date:	5/9/2018	Analysis D	ate: 5/	/10/2018	S	SeqNo: 1	662966	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	4.9	24.61	0	100	77.8	128	0.554	20	
Surr: BFB		940		984.3		95.2	15	316	0	0	

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

1

Page 12 of 14

Client:Souder, IProject:Ballard 2	Miller & A	Associate	es							
Sample ID MB-38023	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 38	023	F	RunNo: 5	1171				
Prep Date: 5/9/2018	Analysis [Date: 5/	10/2018	S	SeqNo: 1	663002	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			
Sample ID LCS-38023	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 38	023	F	RunNo: 5	1171				
Prep Date: 5/9/2018	Analysis [Date: 5/	10/2018	S	SeqNo: 1	663003	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.94	0.10	1.000	0	94.2	70.1	121			
Benzene	0.94	0.025	1.000	0	94.3	77.3	128			
Toluene	0.98	0.050	1.000	0	97.7	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.1	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	98.5	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			
Sample ID 1805496-002AMS	Samp ⁻	Туре: МS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: L2-5	Batc	h ID: 38	023	F	RunNo: 5	1171				
Prep Date: 5/9/2018	Analysis [Date: 5/	10/2018	S	SeqNo: 1	663007	Units: mg/k	(g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.98	0.093	0.9259	0	105	56.9	130			
Benzene	0.94	0.023	0.9259	0	101	68.5	133			
Toluene	0.98	0.046	0.9259	0.008949	105	75	130			
Ethylbenzene	0.98	0.046	0.9259	0	106	79.4	128			
Xylenes, Total	3.0	0.093	2.778	0.02792	108	77.3	131			
Surr: 4-Bromofluorobenzene	0.93		0.9259		101	80	120			
Sample ID 1805496-002AMS		Туре: МS		Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: L2-5	Batc	h ID: 380	023	F	RunNo: 5	1171				
Prep Date: 5/9/2018	Analysis [Date: 5/	10/2018	S	SeqNo: 1	663008	Units: mg/k	٢g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.97	0.096	0.9606	0	101	56.9	130	0.557	20	
Benzene	0.96	0.024	0.9606	0	99.4	68.5	133	1.75	20	
Toluene	1.0	0.048	0.9606	0.008949	104	75	130	2.84	20	
Ethylbenzene	1.0	0.048	0.9606	0	105	79.4	128	3.10	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 13 of 14

WO#: **1805496** *17-May-18* Souder, Miller & Associates

Project: Ballard	d 2									
Sample ID 1805496-002A	ISD Samp	Гуре: МS	SD	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: L2-5	Batc	h ID: 38	023	R	RunNo: 5	1171				
Prep Date: 5/9/2018	Analysis E	Date: 5/	10/2018	S	SeqNo: 10	663008	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Xylenes, Total	3.1	0.096	2.882	0.02792	107	77.3	131	2.86	20	
Surr: 4-Bromofluorobenzene	0.99		0.9606		103	80	120	0	0	

Qualifiers:

Client:

- * 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 14 of 14

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

Sample Log-In Check List

Client Name:	SMA-CARLSBAD	Work Order	Number: 1805496		RcptNo:	1
Received By:	lsaiah Ortiz	5/9/2018 9:30):00 AM	Ia	-	
Completed By:	Ashley Gallegos	5/9/2018 11:5	3:20 AM	AR		
Reviewed By-	ft	05/09/18		ed by.		
Chain of Cus	tody					
1. Is Chain of C	ustody complete?		Yes 🔽	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
<u>Log In</u> 3. Was an atterr	npt made to cool the s	amples?	Yes 🔽	No 🗌	na 🗍	
4. Were all sam	oles received at a tem	perature of >0° C to 6.0°	C Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes 🔽	No 🗌		
6, Sufficient sam	ple volume for indicat	ed test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌		
8. Was preserva	tive added to bottles?		Yes	No 🔽	NA 🗆	
9. VOA vials hav	e zero headspace?		Yes	No 🗌	No VOA Vials 🗹	•
10. Were any san	nple containers receiv	ed broken?	Yes 🗆	No 🗹	# of preserved bottles checked	
	ork match bottle labels ancies on chain of cus		Yes 🗹	No 🗌	for pH: (<2 or	>12 unless noted)
12. Are matrices of	correctly identified on (Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
	t analyses were reque		Yes 🗹	No 🗌		
	ng times able to be mo ustomer for authorizat		Yes 🗹	No	Checked by:	
Special Handl	ing (if applicable	2				
15. Was client no	tified of all discrepand	ies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person	Notified:		Date	· · · · · · · · · · · · · · · · · · ·		
By Who	om:		Via: 🗌 eMail 🔲 F	Phone 🗌 Fax	In Person	
Regardi	ing:					
Client Ir	nstructions:		· · · · · · · · · · · · · · · · · · ·			
16. Additional rer	marks:		÷.			
17. <u>Cooler Infor</u> Cooler No	of the state of th	ion Seal Intact Seal	No Seal Date	Signed By	l	
· · · 1	1.8 Good	Yes				

	Chain	I-of-Cl	Chain-of-Custody Record	Turn-Around Time:	5 des pun			1				i			
Client:	SWA	4		□ Standard □ R	Rush			HALL			ENVIRONMENTAL		ΞŚ	Ĕ	Į,
						1975 1975	na na Na sa						A X		Ř
Mailing	Mailing Address:	S:		Ballara	1#2	4	901 H2	4901 Hawkins NF	Ξ, i	bucue	environmental.com Albumeratio NM 87100		7100		
				Project #:		·	Tel. 50!	505-345-3975		Eax a	505-345-4107	5-410	201 ×		
Phone #:	#:								Ana	lysis	Analysis Request	st			
email or Fax#:	ır Fax#:			Project Manager:			_			(*					
QAQC	QA/QC Package:				1. A				(5	OS'⁺	s,8;		_		
Standard	ndard		Level 4 (Full Validation)	1-tristin 1	NUGAN				SMIS	Od,	5 þC				
Accreditation	litation AP	D Other		Sampler: Hatlu On Ice Defe	L VATLUSION		a / o		S 0228	^z ON' ^ɛ	2808 /	(*			
	EDD (Type)			Lemp	1, 8		ชอ)								
							128								
Date	Time	Matrix	Sample Request ID	Type and # Type	IVE HEAL NO.	+ XƏT8 + XƏT8	08 Hd.	M) HG	8) s'HA' 8 AЯЭ?) suoin	991 Pe	S) 027		<u> </u>	
5/118	10:21	5%/	h-17	yor	100-		r X						-		_
-	17:05		12-5		-002	8	\mathbf{X}			₹≍	-	-			
	11:21		13-3		-629-						+				
(a.	12:03		Swl		400-	X	\geq			\times			+-	-	
	12:28		SW2		500-	X	X			×				-	
-	17:13		SW3	_	-2006	X	×		[\times				-	
	12:15	- <u>1</u>	Swy		100-	X	×			<u> </u>	-				1_
	81.21		SwS		-008	X	\sim			\mathbf{X}				-	
	12121		SWCO	ر	600-	X	$\overline{\mathbf{X}}$			\mathbf{x}					
									+						
							_				_				
Date:	Time:	Relinquished by:		Received by:	Date Time				_		_			_	
		-		AN L	Å		i -								
	Time:	Religquished by:		Regeneration / comic	79/15 930			m	Z						
If I	necessary,	samples subm	If necessary, sarbles 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.	itracted to other accredited labora	torties. This serves as notice of this p	oossibility.	Any sub-c	ontracted o	lata will be	e clearly	notated o	n the an	alytical re	eport.	



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

June 06, 2018

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1805E17

RE: Bailard

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/25/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 1805E17

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/6/2018

CLIENT: Souder, Miller & Associates		Cl	ient Sample II	D: SV	W2	
Project: Bailard		(Collection Dat	e: 5/2	23/2018 9:21:00 AM	
Lab ID: 1805E17-001	Matrix: SOIL		Received Dat	e: 5/2	25/2018 9:15:00 AM	
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2018 9:10:14 PM	38346
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/30/2018 9:10:14 PM	38346
Surr: DNOP	94.3	70-130	%Rec	1	5/30/2018 9:10:14 PM	38346
EPA METHOD 8015D: GASOLINE RANG	SE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/30/2018 9:37:44 PM	38338
Surr: BFB	95.5	15-316	%Rec	1	5/30/2018 9:37:44 PM	38338

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 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report
Lab Order 1805E17

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/6/2018

CLIENT: Souder, Miller & Associates		Clie	nt Sample II): SV	W3	
Project: Bailard		Co	ollection Dat	e: 5/	23/2018 9:42:00 AM	
Lab ID: 1805E17-002	Matrix: SOIL	ŀ	Received Dat	e: 5/	25/2018 9:15:00 AM	
Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2018 9:32:26 PM	38346
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/30/2018 9:32:26 PM	38346
Surr: DNOP	95.8	70-130	%Rec	1	5/30/2018 9:32:26 PM	38346
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/30/2018 10:01:17 PM	38338
Surr: BFB	90.9	15-316	%Rec	1	5/30/2018 10:01:17 PM	38338

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 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client: Project:	Souder, I Bailard	Miller & A	ssociate	es							
Sample ID	MB-38440	SampT	ype: ml	blk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 38	440	F	RunNo: 5 1	1683				
Prep Date:	6/1/2018	Analysis D	ate: 6/	/1/2018	S	SeqNo: 16	686268	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-38440	SampT	ype: Ics	6	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 38	440	F	RunNo: 51	1683				
Prep Date:	6/1/2018	Analysis D	ate: 6/	/1/2018	5	SeqNo: 16	686269	Units: mg/K	ģ		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 3 of 6

WO#: 1805E17 06-Jun-18

Client:Souder,Project:Bailard	Miller & A	ssociate	es							
Sample ID MB-38346	Samp	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batc	h ID: 38	346	R	unNo: 5	1598				
Prep Date: 5/29/2018	Analysis E	Date: 5/	30/2018	S	eqNo: 1	682648	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.4	70	130			
Sample ID LCS-38346	Samp	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batc	h ID: 38	346	R	unNo: 5	1598				
Prep Date: 5/29/2018	Analysis [Date: 5/	30/2018	S	eqNo: 1	682649	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	70	130			
Surr: DNOP	5.2		5.000		103	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 4 of 6

Client: Project:	Souder, N Bailard	Miller & Associat	es							
Sample ID	MB-38338	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch ID: 38	338	R	unNo: 51	1580				
Prep Date:	5/25/2018	Analysis Date: 5	/29/2018	S	eqNo: 16	681351	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 5.0 950	1000		95.1	15	316			
Sample ID	LCS-38338	SampType: L(CS	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	9	
Client ID:	LCSS	Batch ID: 38	338	R	unNo: 51	1580				
Prep Date:	5/25/2018	Analysis Date: 5	/29/2018	S	eqNo: 16	681352	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	29 5.0		0	114	75.9	131			
Surr: BFB		1100	1000		112	15	316			
Sample ID	MB-38366	SampType: M	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	PBS	Batch ID: 38	366	R	unNo: 51	1603				
Prep Date:	5/29/2018	Analysis Date: 5	/30/2018	S	eqNo: 16	682799	Units: %Red	;		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		930	1000		92.9	15	316			
Sample ID	LCS-38366	SampType: LO	cs	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID:	LCSS	Batch ID: 38	366	R	unNo: 51	1603				
Prep Date:	5/29/2018	Analysis Date: 5	/30/2018	S	eqNo: 16	682800	Units: %Red	;		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100	1000		106	15	316			

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 5 of 6

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 105 80 120 Sample ID LCS-38338 SampType: LCS Batch ID: 38338 RunNo: 51580 Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681396 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 93.7 7.0.1 121 Benzene 0.94 0.050 1.000 0 93.6 7.9.2 125 Toluene 0.94 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 </th <th>Client: Souder,</th> <th>Miller & Associates</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Client: Souder,	Miller & Associates								
Client ID: PBS Batch ID: 38338 RunNo: 51580 Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681394 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl terhulyl ether (MTBE) ND 0.005 Server and the server a	Project: Bailard									
Client ID: PBS Batch ID: 38338 RunNo: 51580 Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681394 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl terhulyl ether (MTBE) ND 0.005 Server and the server a			,	T			0004D Vala			
Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo:: 1681394 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl terhbuly ether (MTBE) ND 0.025 - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8021B: Volat</td> <td>lles</td> <td></td> <td></td>							8021B: Volat	lles		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl terbutyl ether (MTBE) ND 0.10 Qual Qual Qual Qual Qual		Batch ID: 38338		R	unNo: 51	1580				
Methyl tert-butyl ether (MTBE) ND 0.10 Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 105 80 120 Sample ID LCS-38338 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 38338 RunNo: 51580 Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681396 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.6 129 120	Prep Date: 5/25/2018	Analysis Date: 5/29/2	2018	S	eqNo: 16	681394	Units: mg/K	g		
Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 105 80 120 Sample ID LCS-38338 SampType: LCS Batch ID: 38338 RunNo: 51580 Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681396 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 93.7 7.0.1 121 Benzene 0.94 0.050 1.000 0 93.6 7.9.2 125 Toluene 0.94 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 </td <td>Analyte</td> <td>Result PQL SF</td> <td>PK value</td> <td>SPK Ref Val</td> <td>%REC</td> <td>LowLimit</td> <td>HighLimit</td> <td>%RPD</td> <td>RPDLimit</td> <td>Qual</td>	Analyte	Result PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 105 80 120 Sample ID LCS-38338 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 38338 RunNo: 51580 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 91.3 77.3 128 Fulylbenzene 0.93 0.050 1.000 93.6 79.2 125 125 Ethylbenzene 0.93 0.050 1.000 0 93.6 71.2 125 125 Surr: 4-Bromofluorobenzene 1.1 1.000 0 93.6 79.2 125 125 126	Methyl tert-butyl ether (MTBE)	ND 0.10								
Ethylbenzene Xylenes, Total ND 0.050 Surr: 4-Bromofluorobenzene 1.0 1.000 105 80 120 Sample ID LCS-38338 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 38338 RunNo: 51580 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-bulyl ether (MTBE) 0.96 0.10 1.000 0 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Sur: 4-Bromofluorobenzene 1.1 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129	Benzene	ND 0.025								
Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.00 105 80 120 Sample ID LCS-38338 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 38338 RunNo: 51580 Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681396 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-bulyl ether (MTBE) 0.96 0.10 1.000 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 121 Sample ID MB-38366 SampType:	Toluene	ND 0.050								
Surr: 4-Bromofluorobenzene 1.0 1.00 105 80 120 Sample ID LCS-38338 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 38338 RunNo: 51580 Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681396 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021	Ethylbenzene	ND 0.050								
Sample ID LCS-38338 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 38338 RunNo: 51580 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 8366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: </td <td>Xylenes, Total</td> <td>ND 0.10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Xylenes, Total	ND 0.10								
Client ID: LCSS Batch ID: 38338 RunNo: 51580 Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681396 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 91.3 77.3 128 Toluene 0.94 0.050 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 1000 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 821B: Volatiles Client ID: PBS Batch ID: 38366<	Surr: 4-Bromofluorobenzene	1.0	1.000		105	80	120			
Prep Date: 5/25/2018 Analysis Date: 5/29/2018 SeqNo: 1681396 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 91.3 77.3 128 Toluene 0.94 0.050 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Units: %Rec Prep Date: 5/29/2018 Analysis Date:	Sample ID LCS-38338	SampType: LCS		Test	Code: EF	PA Method	8021B: Volat	iles		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 91.3 77.3 128 Toluene 0.94 0.050 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840	Client ID: LCSS	Batch ID: 38338	;	R	unNo: 51	1580				
Methyl tert-butyl ether (MTBE) 0.96 0.10 1.000 0 95.7 70.1 121 Benzene 0.91 0.025 1.000 0 91.3 77.3 128 Toluene 0.94 0.050 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Prep Date: 5/25/2018	Analysis Date: 5/29/2	2018	S	eqNo: 16	681396	Units: mg/K	g		
Benzene 0.91 0.025 1.000 0 91.3 77.3 128 Toluene 0.94 0.050 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Analyte	Result PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene 0.94 0.050 1.000 0 93.6 79.2 125 Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Sur: 4-Bromofluorobenzene 1.1 1.000 106 80 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Methyl tert-butyl ether (MTBE)	0.96 0.10	1.000	0	95.7	70.1	121			
Ethylbenzene 0.93 0.050 1.000 0 93.2 80.7 127 Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Sur: 4-Bromofluorobenzene 1.1 1.000 106 80 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Benzene	0.91 0.025	1.000	0	91.3	77.3	128			
Xylenes, Total 2.8 0.10 3.000 0 94.5 81.6 129 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Toluene	0.94 0.050	1.000	0	93.6	79.2	125			
Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120 Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Ethylbenzene	0.93 0.050	1.000	0	93.2	80.7	127			
Sample ID MB-38366 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Xylenes, Total	2.8 0.10	3.000	0	94.5	81.6	129			
Client ID: PBS Batch ID: 38366 RunNo: 51603 Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Surr: 4-Bromofluorobenzene	1.1	1.000		106	80	120			
Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682840 Units: %Rec	Sample ID MB-38366	SampType: MBLK	Ι.	Test	Code: EF	PA Method	8021B: Volat	iles		
	Client ID: PBS	Batch ID: 38366	i	R	unNo: 5 1	1603				
Analyte Result POL SPK value SPK Ref Val %REC. Lowl imit HighLimit %RPD RPDL imit Oual	Prep Date: 5/29/2018	Analysis Date: 5/30/2	2018	S	eqNo: 16	682840	Units: %Red	;		
	Analyte	Result PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120	Surr: 4-Bromofluorobenzene	1.0	1.000		102	80	120			
Sample ID LCS-38366 SampType: LCS TestCode: EPA Method 8021B: Volatiles	Sample ID LCS-38366	SampType: LCS		Test	Code: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS Batch ID: 38366 RunNo: 51603	Client ID: LCSS	Batch ID: 38366	;	R	unNo: 51	1603				
Prep Date: 5/29/2018 Analysis Date: 5/30/2018 SeqNo: 1682841 Units: %Rec	Prep Date: 5/29/2018	Analysis Date: 5/30/2	2018	S	eqNo: 16	682841	Units: %Red	;		
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual	Analyte	Result PQL SF	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene 1.1 1.000 109 80 120	Surr: 4-Bromofluorobenzene	1.1	1.000		109	80	•			

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 Albi TEL: 505-345-3975 Website: www.ha	4901 Ha iquerque, N FAX: 505-	wkins NE M 87109 345-4197	Sar	nple Log-In Check List
Client Name: SMA-CARLSBAD	Work Order Number	1805E17	5.		RcptNo: 1
Received By: Isaiah Ortiz 5/2	25/2018 9:15:00 AM		I	Cart-	-
	25/2018 9:54:22 AM さらくいち		Ú	INA	5
Abled By: JG 06/25/19 Chain of Custody	5				
1. Is Chain of Custody complete?		Yes 🔽	N	lo 🗌	Not Present
How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the samples?		Yes 🗸	N	10 🗆	
 Were all samples received at a temperature of > 	0° C to 6.0°C	Yes 🗹	N	lo 🗌	
5. Sample(s) in proper container(s)?		Yes 🔽	N	lo 🗌	
Sufficient sample volume for indicated test(s)?		Yes 🗸	N	o 🗌	
Are samples (except VOA and ONG) properly pre	served?	Yes 🖌	N	a 🗌	
Was preservative added to bottles?		Yes 🗌	N	u 🔽	NA 🗌
. VOA viais have zero headspace?		Yes 🗌	N	o 🗌	No VOA Vials 🗹
0, Were any sample containers received broken?		Yes 🗆	N	•	# of preserved
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	N	•	for pH: (<2 or >12 unless note
Are matrices correctly identified on Chain of Custo	ody?	Yes 🗸	N	0	Adjusted?
Is it clear what analyses were requested?		Yes 🖌	N	•	10
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🔽	N	•	Checked by g (5
pecial Handling (if applicable)					/
5. Was client notified of all discrepancies with this o	rder?	Yes 🗌	N	• 🗆 ′	NA 🗹
Person Notified:	Date:				
By Whom:	Via:	eMai	Phone	Fax	In Person
Regarding					
Client Instructions:					

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			

Chain-of-Custody Record	Turn-Around Time:	
Client: SMA - Carlsbad	Standard & Rush 5 day	HALL ENVIRONMENTAL
		- ANALYSIS LABORATORY
Mailing Address:	Ballard	4001 Hambles ME Allenvironmental.com
	Project #:	nbnaiv -
Phone #:		Tel. 303-349-39/0 Fax 505-345-4107
email or Fax#:	Project Manager:	(()
QA/QC Package:		*OS () NBW
Standard Level 4 (Full Validation)	thustin Weyart	/ O
Accreditation	Sampler: LUCS	РН (1) 10 ₂ ,F 10 2,5 20 2,5 20 2,5 2 20 2,5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	On Ice: Defes DNo	() () () () () () () () () () () () () (
EDD (Type)	Sample Temperature: 0_9	+ 38 (96) (14 k 14 k 100 100 100 100 100 100 100 100 100 10
Date Time Matrix Sample Request ID	Container Preservative HEAL No. Type and # Type IO NGC 17	TEX + MTE PH (Method PH (Method PH (Method PH's (8310 Nons (FC) Nons (FC) No
\$123/18 9-21 821 JUZ	412 NNI	н н н н н н н н н н н н н н
1 9:42 1 6603		<pre></pre>
000	2000	
1 cenar	× -003	×××
+ 10:10 × (PUArZ	100-	X X
	<	
Date: Time: Retinquished by:		
2 Wantan	BUL SIZUIS 1030	Remarks: Marather BDS
Why 1900 - Relingeshed by	Rebeiver by Course Date Time	
If necessary, samples submitted to Hall Environmental may be subco	as no	is possibility. Any sub-contracted data will be clearly notated on the analytical react