ANALYTICAL REPORT

April 06, 2017

Olsson Associates - CO

Sample Delivery Group:	L899262
Samples Received:	03/30/2017
Project Number:	A14-2069
Description:	A14-2069
Site:	ROCK SPRINGS
Report To:	Robert Stockton 760 Horizon Drive, Ste 102 Grand Junction, CO 81506

Entire Report Reviewed By:

Shane Gambill
Technical Service Representative

TABLE OF CONTENTS

DS L899262-01 GW

Collected by: Robert Stockton | Collected date/time: 03/28/17 10:44 | Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/05/17 16:12	04/05/17 16:12	GLN

POND L899262-02 GW

Collected by: Robert Stockton | Collected date/time: 03/28/17 10:56 | Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/05/17 16:35	04/05/17 16:35	GLN

SS L899262-03 GW

Collected by: Robert Stockton | Collected date/time: 03/28/17 11:09 | Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/05/17 16:57	04/05/17 16:57	GLN

RS1 L899262-04 GW

Collected by: Robert Stockton | Collected date/time: 03/28/17 14:11 | Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	250	04/05/17 17:19	04/05/17 17:19	GLN

RS2 L899262-05 GW

Collected by: Robert Stockton | Collected date/time: 03/28/17 11:59 | Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/05/17 17:42	04/05/17 17:42	GLN

RS3 L899262-06 GW

Collected by: Robert Stockton | Collected date/time: 03/28/17 12:21 | Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/05/17 18:04	04/05/17 18:04	GLN

RS4 L899262-07 GW

Collected by: Robert Stockton | Collected date/time: 03/28/17 11:44 | Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/05/17 20:40	04/05/17 20:40	GLN

RS5 L899262-08 GW

Collected by: Robert Stockton | Collected date/time: 03/28/17 12:39 | Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/05/17 21:03	04/05/17 21:03	GLN

RS7 L899262-09 GW

Collected by: Robert Stockton
Collected date/time: 03/28/17 00:00
Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/06/17 00:34	04/06/17 00:34	GLN

RS9 L899262-10 GW

Collected by: Robert Stockton
Collected date/time: 03/28/17 00:00
Received date/time: 03/30/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG966461	1	04/06/17 00:56	04/06/17 00:56	GLN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Shane Gambill
Technical Service Representative

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	04/05/2017 16:12	WG966461
Toluene	ND		0.00100	1	04/05/2017 16:12	WG966461
Ethylbenzene	ND		0.000500	1	04/05/2017 16:12	WG966461
Total Xylene	ND		0.00150	1	04/05/2017 16:12	WG966461
TPH (GC/FID) Low Fraction	ND	J3	0.100	1	04/05/2017 16:12	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*97.8*		*77.0-122*		*04/05/2017 16:12*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*103*		*80.0-121*		*04/05/2017 16:12*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/05/2017 16:35	WG966461
Toluene	ND		0.00100	1	04/05/2017 16:35	WG966461
Ethylbenzene	ND		0.000500	1	04/05/2017 16:35	WG966461
Total Xylene	ND		0.00150	1	04/05/2017 16:35	WG966461
TPH (GC/FID) Low Fraction	ND		0.100	1	04/05/2017 16:35	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*97.9*		*77.0-122*		*04/05/2017 16:35*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*103*		*80.0-121*		*04/05/2017 16:35*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.0298		0.000500	1	04/05/2017 16:57	WG966461
Toluene	ND		0.00100	1	04/05/2017 16:57	WG966461
Ethylbenzene	0.00122		0.000500	1	04/05/2017 16:57	WG966461
Total Xylene	0.00827		0.00150	1	04/05/2017 16:57	WG966461
TPH (GC/FID) Low Fraction	0.297		0.100	1	04/05/2017 16:57	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*94.4*		*77.0-122*		*04/05/2017 16:57*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*101*		*80.0-121*		*04/05/2017 16:57*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.404		0.125	250	04/05/2017 17:19	WG966461
Toluene	ND		0.250	250	04/05/2017 17:19	WG966461
Ethylbenzene	0.282		0.125	250	04/05/2017 17:19	WG966461
Total Xylene	3.95		0.375	250	04/05/2017 17:19	WG966461
TPH (GC/FID) Low Fraction	29.3		25.0	250	04/05/2017 17:19	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*97.3*		*77.0-122*		*04/05/2017 17:19*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*103*		*80.0-121*		*04/05/2017 17:19*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	04/05/2017 17:42	WG966461
Toluene	ND		0.00100	1	04/05/2017 17:42	WG966461
Ethylbenzene	0.00111		0.000500	1	04/05/2017 17:42	WG966461
Total Xylene	0.00713		0.00150	1	04/05/2017 17:42	WG966461
TPH (GC/FID) Low Fraction	0.286		0.100	1	04/05/2017 17:42	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*97.4*		*77.0-122*		*04/05/2017 17:42*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*103*		*80.0-121*		*04/05/2017 17:42*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/05/2017 18:04	WG966461
Toluene	ND		0.00100	1	04/05/2017 18:04	WG966461
Ethylbenzene	ND		0.000500	1	04/05/2017 18:04	WG966461
Total Xylene	ND		0.00150	1	04/05/2017 18:04	WG966461
TPH (GC/FID) Low Fraction	ND		0.100	1	04/05/2017 18:04	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*97.2*		*77.0-122*		*04/05/2017 18:04*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*102*		*80.0-121*		*04/05/2017 18:04*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.00539		0.000500	1	04/05/2017 20:40	WG966461
Toluene	ND		0.00100	1	04/05/2017 20:40	WG966461
Ethylbenzene	0.00220		0.000500	1	04/05/2017 20:40	WG966461
Total Xylene	0.0188		0.00150	1	04/05/2017 20:40	WG966461
TPH (GC/FID) Low Fraction	0.176		0.100	1	04/05/2017 20:40	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*96.6*		*77.0-122*		*04/05/2017 20:40*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*103*		*80.0-121*		*04/05/2017 20:40*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/05/2017 21:03	WG966461
Toluene	ND		0.00100	1	04/05/2017 21:03	WG966461
Ethylbenzene	ND		0.000500	1	04/05/2017 21:03	WG966461
Total Xylene	ND		0.00150	1	04/05/2017 21:03	WG966461
TPH (GC/FID) Low Fraction	ND		0.100	1	04/05/2017 21:03	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*97.9*		*77.0-122*		*04/05/2017 21:03*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*104*		*80.0-121*		*04/05/2017 21:03*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	04/06/2017 00:34	WG966461
Toluene	ND		0.00100	1	04/06/2017 00:34	WG966461
Ethylbenzene	ND		0.000500	1	04/06/2017 00:34	WG966461
Total Xylene	ND		0.00150	1	04/06/2017 00:34	WG966461
TPH (GC/FID) Low Fraction	ND		0.100	1	04/06/2017 00:34	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*97.6*		*77.0-122*		*04/06/2017 00:34*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*104*		*80.0-121*		*04/06/2017 00:34*	WG966461

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.0259		0.000500	1	04/06/2017 00:56	WG966461
Toluene	0.00258		0.00100	1	04/06/2017 00:56	WG966461
Ethylbenzene	0.00411		0.000500	1	04/06/2017 00:56	WG966461
Total Xylene	0.108		0.00150	1	04/06/2017 00:56	WG966461
TPH (GC/FID) Low Fraction	0.615		0.100	1	04/06/2017 00:56	WG966461
(S) a,a,a-Trifluorotoluene(FID)	*95.3*		*77.0-122*		*04/06/2017 00:56*	WG966461
(S) a,a,a-Trifluorotoluene(PID)	*102*		*80.0-121*		*04/06/2017 00:56*	WG966461

Method Blank (MB)

(MB) R3208697-5 04/05/17 12:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*77.0-122*
(S) a,a,a-Trifluorotoluene(PID)	*105*			*80.0-121*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3208697-1 04/05/17 10:17 • (LCSD) R3208697-2 04/05/17 10:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0500	0.0457	0.0479	91.3	95.8	71.0-121			4.81	20
Toluene	0.0500	0.0482	0.0488	96.4	97.6	72.0-120			1.29	20
Ethylbenzene	0.0500	0.0498	0.0507	99.7	101	75.0-122			1.79	20
Total Xylene	0.150	0.153	0.154	102	103	74.0-124			0.910	20
(S) a,a,a-Trifluorotoluene(FID)				*97.5*	*97.7*	*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)				*102*	*102*	*80.0-121*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3208697-3 04/05/17 11:02 • (LCSD) R3208697-4 04/05/17 11:24

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.81	5.65	106	103	71.0-136			2.75	20
(S) a,a,a-Trifluorotoluene(FID)				*103*	*101*	*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)				*111*	*111*	*80.0-121*				

L899262-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L899262-01 04/05/17 16:12 • (MS) R3208697-6 04/05/17 19:11 • (MSD) R3208697-7 04/05/17 19:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Benzene	0.0500	ND	0.0430	0.0486	86.0	97.2	1	29.0-146			12.2	20
Toluene	0.0500	ND	0.0427	0.0483	85.4	96.6	1	35.0-140			12.3	20
Ethylbenzene	0.0500	ND	0.0444	0.0504	88.8	101	1	39.0-143			12.6	20
Total Xylene	0.150	ND	0.134	0.152	89.1	101	1	42.0-142			12.7	20
(S) a,a,a-Trifluorotoluene(FID)					*97.2*	*97.4*		*77.0-122*				

L899262-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L899262-01 04/05/17 16:12 • (MS) R3208697-6 04/05/17 19:11 • (MSD) R3208697-7 04/05/17 19:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) a,a,a-Trifluorotoluene(PID)					*101*	*101*		*80.0-121*				

L899262-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L899262-01 04/05/17 16:12 • (MS) R3208697-8 04/05/17 19:56 • (MSD) R3208697-9 04/05/17 20:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	8.29	5.62	151	102	1	18.0-160		J3	38.4	20
(S) a,a,a-Trifluorotoluene(FID)					*101*	*102*		*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)					*110*	*110*		*80.0-121*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

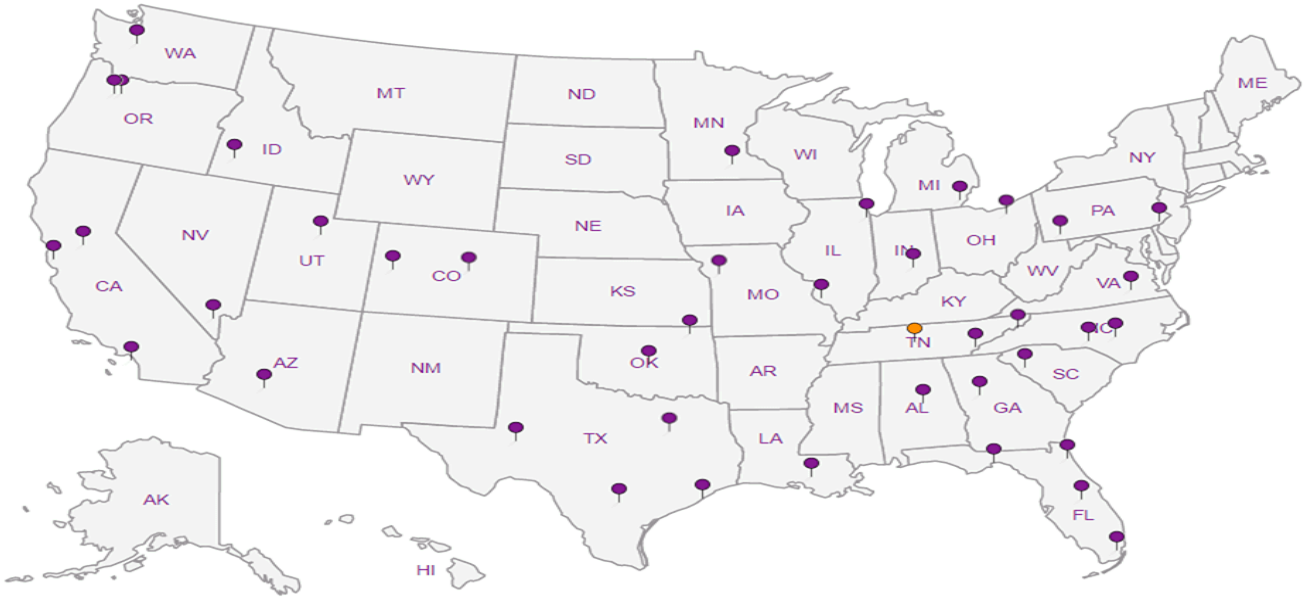
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:

Olsson Associates

760 Horizon Drive, Suite 102
Grand Junction, CO 81506

Billing Information:

Report to: **Robert Stockton**

Email To: **rstockton@olssonassociates.com**

Project Description: **A14-2069**

City/State Collected: **Cascade Crk.**

Phone: **(970) 263-7800**
Fax:

Client Project # **A14-2069**

Lab Project #

Collected by (print): **Robert Stockton**

Site/Facility ID # **Rock Springs**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LAB SCIENCES

YOUR LAB OF CHOICE

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 899262

C063

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX / GRO	Rem./Contaminant	Sample # (lab only)
DS	Grab	GW		3/28/2017	1044	4	X		01
Pond	Grab	GW		3/28/2017	1056	4	X		02
SS	Grab	GW		3/28/2017	1109	4	X		03
RS1	Grab	GW		3/28/2017	1411	4	X		04
RS2	Grab	GW		3/28/2017	1159	4	X		05
RS3	Grab	GW		3/28/2017	1229 (122)	4	X		06
RS4	Grab	GW		3/28/2017	1144	4	X		07
RS5	Grab	GW		3/28/2017	1239	4	X		08
RS7	Grab	GW		3/28/2017		4	X		09
RS9	Grab	GW		3/28/2017		4	X		10

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: 7136 2663 9892

pH ___ Temp ___

Flow ___ Other ___

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/29/2017	1630	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	3/29/17	1730	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ___

Temp: 2.1c °C Bottles Received: TOTAL 40

Date: 3/30/17 Time: 0745

Hold #

Condition: (lab use only)

COC Seal Intact: ___Y ___N ✓NA

pH Checked: NCF:

ESC LAB SCIENCES
Cooler Receipt Form

Client:	Olsson Co	SDG#	895062
Cooler Received/Opened On: 3/ /17		Temperature:	
Received By: Matt Shacklock			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?		✓	
Preservation Correct / Checked?			

ANALYTICAL REPORT

July 06, 2017

myESC
REAL TIME DATA ACCESS

Olsson Associates - CO

Sample Delivery Group:	L919108
Samples Received:	06/28/2017
Project Number:	A14-2069
Description:	A14-2069
Site:	ROCK SPRINGS
Report To:	Robert Stockton 760 Horizon Drive, Ste 102 Grand Junction, CO 81506

Entire Report Reviewed By:

Shane Gambill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

DOWNSTREAM L919108-01 GW

Collected by JD/KR | Collected date/time 06/27/17 12:55 | Received date/time 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 14:04	07/05/17 14:04	JAH

SOUTH SPRING L919108-02 GW

Collected by JD/KR | Collected date/time 06/27/17 12:45 | Received date/time 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 14:28	07/05/17 14:28	JAH

RS6 L919108-03 GW

Collected by JD/KR | Collected date/time 06/27/17 11:05 | Received date/time 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 14:52	07/05/17 14:52	JAH

RS2 L919108-04 GW

Collected by JD/KR | Collected date/time 06/27/17 11:50 | Received date/time 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 15:15	07/05/17 15:15	JAH

RS3 L919108-05 GW

Collected by JD/KR | Collected date/time 06/27/17 12:15 | Received date/time 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 16:03	07/05/17 16:03	JAH

RS4 L919108-06 GW

Collected by JD/KR | Collected date/time 06/27/17 12:15 | Received date/time 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 17:04	07/05/17 17:04	JAH

RS5 L919108-07 GW

Collected by JD/KR | Collected date/time 06/27/17 12:00 | Received date/time 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 17:27	07/05/17 17:27	JAH

RS7 L919108-08 GW

Collected by JD/KR | Collected date/time 06/27/17 10:50 | Received date/time 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 17:51	07/05/17 17:51	JAH

RS9 L919108-09 GW

Collected by: JD/KR
Collected date/time: 06/27/17 11:35
Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 18:15	07/05/17 18:15	JAH

POND L919108-10 GW

Collected by: JD/KR
Collected date/time: 06/27/17 12:45
Received date/time: 06/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG994599	1	07/05/17 18:39	07/05/17 18:39	JAH

All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Shane Gambill
Technical Service Representative

Sample Handling and Receiving

VOC pH outside of method requirement.

ESC Sample ID	Project Sample ID	Method
L919108-03	RS6	8015/8021
L919108-04	RS2	8015/8021
L919108-05	RS3	8015/8021
L919108-06	RS4	8015/8021
L919108-07	RS5	8015/8021
L919108-09	RS9	8015/8021

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	07/05/2017 14:04	WG994599
Toluene	ND		0.00100	1	07/05/2017 14:04	WG994599
Ethylbenzene	ND		0.000500	1	07/05/2017 14:04	WG994599
Total Xylene	ND		0.00150	1	07/05/2017 14:04	WG994599
TPH (GC/FID) Low Fraction	ND		0.100	1	07/05/2017 14:04	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-122*		*07/05/2017 14:04*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*107*		*80.0-121*		*07/05/2017 14:04*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.0422		0.000500	1	07/05/2017 14:28	WG994599
Toluene	ND		0.00100	1	07/05/2017 14:28	WG994599
Ethylbenzene	0.00270		0.000500	1	07/05/2017 14:28	WG994599
Total Xylene	0.0159		0.00150	1	07/05/2017 14:28	WG994599
TPH (GC/FID) Low Fraction	0.328		0.100	1	07/05/2017 14:28	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*105*		*77.0-122*		*07/05/2017 14:28*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*107*		*80.0-121*		*07/05/2017 14:28*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	07/05/2017 14:52	WG994599
Toluene	ND		0.00100	1	07/05/2017 14:52	WG994599
Ethylbenzene	ND		0.000500	1	07/05/2017 14:52	WG994599
Total Xylene	ND		0.00150	1	07/05/2017 14:52	WG994599
TPH (GC/FID) Low Fraction	ND		0.100	1	07/05/2017 14:52	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-122*		*07/05/2017 14:52*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*107*		*80.0-121*		*07/05/2017 14:52*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	07/05/2017 15:15	WG994599
Toluene	ND		0.00100	1	07/05/2017 15:15	WG994599
Ethylbenzene	ND		0.000500	1	07/05/2017 15:15	WG994599
Total Xylene	ND		0.00150	1	07/05/2017 15:15	WG994599
TPH (GC/FID) Low Fraction	ND		0.100	1	07/05/2017 15:15	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-122*		*07/05/2017 15:15*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*106*		*80.0-121*		*07/05/2017 15:15*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.00354		0.000500	1	07/05/2017 16:03	WG994599
Toluene	ND		0.00100	1	07/05/2017 16:03	WG994599
Ethylbenzene	ND		0.000500	1	07/05/2017 16:03	WG994599
Total Xylene	ND		0.00150	1	07/05/2017 16:03	WG994599
TPH (GC/FID) Low Fraction	ND		0.100	1	07/05/2017 16:03	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-122*		*07/05/2017 16:03*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*106*		*80.0-121*		*07/05/2017 16:03*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.0183		0.000500	1	07/05/2017 17:04	WG994599
Toluene	ND		0.00100	1	07/05/2017 17:04	WG994599
Ethylbenzene	0.00867		0.000500	1	07/05/2017 17:04	WG994599
Total Xylene	0.0595		0.00150	1	07/05/2017 17:04	WG994599
TPH (GC/FID) Low Fraction	0.424		0.100	1	07/05/2017 17:04	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*106*		*77.0-122*		*07/05/2017 17:04*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*107*		*80.0-121*		*07/05/2017 17:04*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	07/05/2017 17:27	WG994599
Toluene	0.00447		0.00100	1	07/05/2017 17:27	WG994599
Ethylbenzene	ND		0.000500	1	07/05/2017 17:27	WG994599
Total Xylene	ND		0.00150	1	07/05/2017 17:27	WG994599
TPH (GC/FID) Low Fraction	ND		0.100	1	07/05/2017 17:27	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-122*		*07/05/2017 17:27*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*106*		*80.0-121*		*07/05/2017 17:27*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	07/05/2017 17:51	WG994599
Toluene	ND		0.00100	1	07/05/2017 17:51	WG994599
Ethylbenzene	ND		0.000500	1	07/05/2017 17:51	WG994599
Total Xylene	ND		0.00150	1	07/05/2017 17:51	WG994599
TPH (GC/FID) Low Fraction	ND		0.100	1	07/05/2017 17:51	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-122*		*07/05/2017 17:51*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*106*		*80.0-121*		*07/05/2017 17:51*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.0545		0.000500	1	07/05/2017 18:15	WG994599
Toluene	0.00208		0.00100	1	07/05/2017 18:15	WG994599
Ethylbenzene	0.00800		0.000500	1	07/05/2017 18:15	WG994599
Total Xylene	0.133		0.00150	1	07/05/2017 18:15	WG994599
TPH (GC/FID) Low Fraction	1.69		0.100	1	07/05/2017 18:15	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*99.7*		*77.0-122*		*07/05/2017 18:15*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*105*		*80.0-121*		*07/05/2017 18:15*	WG994599

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	07/05/2017 18:39	WG994599
Toluene	ND		0.00100	1	07/05/2017 18:39	WG994599
Ethylbenzene	ND		0.000500	1	07/05/2017 18:39	WG994599
Total Xylene	ND		0.00150	1	07/05/2017 18:39	WG994599
TPH (GC/FID) Low Fraction	ND		0.100	1	07/05/2017 18:39	WG994599
(S) a,a,a-Trifluorotoluene(FID)	*104*		*77.0-122*		*07/05/2017 18:39*	WG994599
(S) a,a,a-Trifluorotoluene(PID)	*105*		*80.0-121*		*07/05/2017 18:39*	WG994599

Method Blank (MB)

(MB) R3231082-5 07/05/17 12:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-122*
(S) a,a,a-Trifluorotoluene(PID)	*107*			*80.0-121*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231082-1 07/05/17 10:21 • (LCSD) R3231082-2 07/05/17 10:45

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.0500	0.0513	0.0527	103	105	71.0-121			2.69	20
Toluene	0.0500	0.0518	0.0526	104	105	72.0-120			1.67	20
Ethylbenzene	0.0500	0.0537	0.0542	107	108	75.0-122			0.810	20
Total Xylene	0.150	0.162	0.163	108	108	74.0-124			0.190	20
(S) a,a,a-Trifluorotoluene(FID)				*104*	*104*	*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)				*105*	*105*	*80.0-121*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3231082-3 07/05/17 11:12 • (LCSD) R3231082-4 07/05/17 11:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	6.13	6.03	111	110	71.0-136			1.60	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)				*121*	*121*	*80.0-121*				

L919108-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919108-01 07/05/17 14:04 • (MS) R3231082-6 07/05/17 19:59 • (MSD) R3231082-7 07/05/17 20:22

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Benzene	0.0500	ND	0.0421	0.0447	84.2	89.5	1	29.0-146			6.05	20
Toluene	0.0500	ND	0.0420	0.0442	84.1	88.4	1	35.0-140			4.97	20
Ethylbenzene	0.0500	ND	0.0443	0.0468	88.6	93.6	1	39.0-143			5.48	20
Total Xylene	0.150	ND	0.134	0.142	89.2	94.5	1	42.0-142			5.81	20
(S) a,a,a-Trifluorotoluene(FID)					*105*	*105*		*77.0-122*				

L919108-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919108-01 07/05/17 14:04 • (MS) R3231082-6 07/05/17 19:59 • (MSD) R3231082-7 07/05/17 20:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) a,a,a-Trifluorotoluene(PID)					*106*	*105*		*80.0-121*				

L919108-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L919108-01 07/05/17 14:04 • (MS) R3231082-8 07/05/17 21:17 • (MSD) R3231082-9 07/05/17 21:41

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	6.18	6.76	112	123	1	18.0-160			9.01	20
(S) a,a,a-Trifluorotoluene(FID)					*105*	*106*		*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)					*118*	*118*		*80.0-121*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

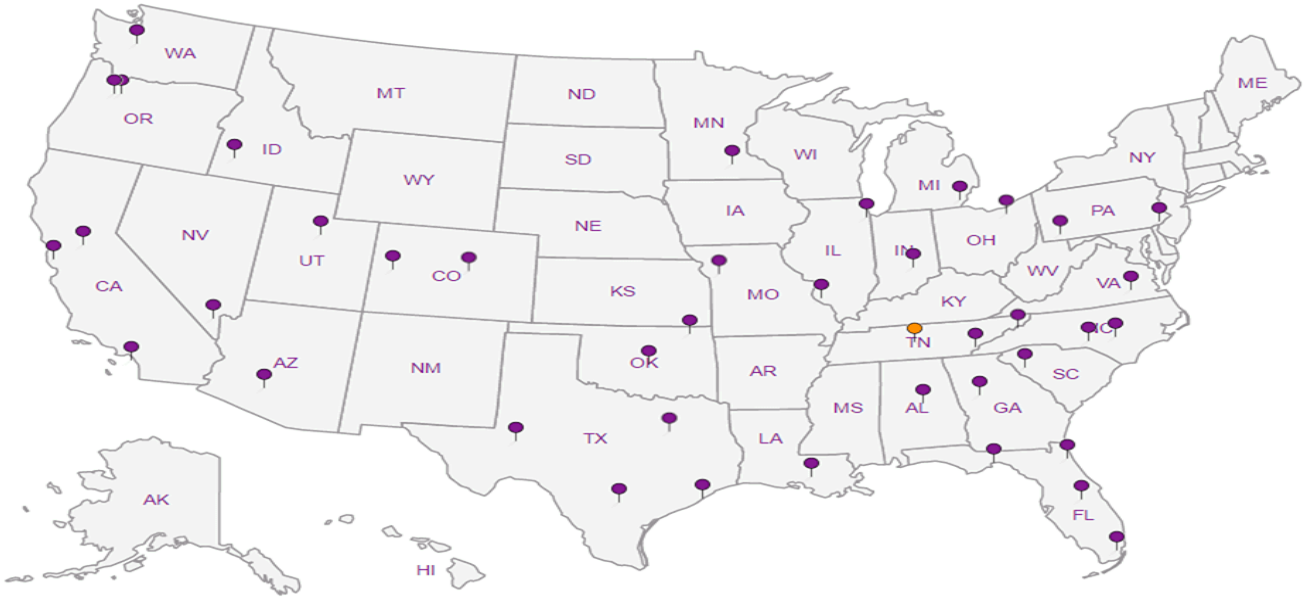
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
Olsson Associates
760 Horizon Drive, Suite 102
Grand Junction, CO 81506

Billing Information:

Report to: **Robert Stockton**

Email To: **rstockton@olssonassociates.com**

Project Description: **A14-2069**

City/State Collected: **Cascade Crk.**

Phone: **(970) 263-7800**
Fax:

Client Project # **A14-2069**

Lab Project #

Collected by (print): ~~Robert Stockton~~ J. Dikon K. Richards

Site/Facility ID # **Rock Springs**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L919108

B082

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date 6/27/17 TD	Time	No. of Cntrs	BTEX / GRO	Rem./Contaminant	Sample # (lab only)
~~DS~~ Downstream	Grab	GW		~~3/28/2017~~	1255	4	X		-01
Pond	Grab	GW		~~3/28/2017~~	1245	4	X		-10 TD
~~SS~~ Seep Spring	Grab	GW		~~3/28/2017~~	1245	4	X		~~-02~~ -03
~~RS1~~ RS6	Grab	GW		~~3/28/2017~~	1105	4	X		-03
RS2	Grab	GW		~~3/28/2017~~	1150	4	X		-04
RS3	Grab	GW		~~3/28/2017~~	1215	4	X		-05
RS4	Grab	GW		~~3/28/2017~~	1215	4	X		-06
RS5	Grab	GW		~~3/28/2017~~	1200	4	X		-07
RS7	Grab	GW		~~3/28/2017~~	1050	4	X		-08
RS9	Grab	GW		~~3/28/2017~~	1135	4	X		-09
									~~10~~ TD

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	6/27/17	1600			
Relinquished by : (Signature)	Date: 6/27/17	Time: 1700	Received by: (Signature)	Temp: 0.1 °C Bottles Received: 36	COC Seal Intact: ___Y ___N X NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Marina Mabe	Date: 6-28-17 Time: 0845	pH Checked: NCF: X

ESC LAB SCIENCES
Cooler Receipt Form

Client: OLSSONCO	SDG#	619108
Cooler Received/Opened On: 06/28/2017	Temperature:	0.1
Received By: Marina Malone		
Signature: Marina Malone		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Troy Dunlap

ESC Lab Sciences
Non-Conformance Form

Login #: L919108	Client: OLSSONCO	Date: 6/28/17	Evaluated by: Troy Dunlap

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	X	Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Did not receive sample POND at 1245.
Received sample LOWER PIT #44 at 1249 not listed on the COC.

Client informed by:	Call	Email	Voice Mail	Date: 06/28/17	Time:
TSR Initials: CSG	Client Contact: Robert Stockton				

Login Instructions:

The "Pond" and "Lower Pit" are synonymous. Please change the samples to "Pond" and use sample time of 1245

ANALYTICAL REPORT

October 04, 2017

Entrada Consulting Group

Sample Delivery Group:	L939844
Samples Received:	09/28/2017
Project Number:	
Description:	Rock Springs
Site:	ROCK SPRINGS
Report To:	Robert Stockton 240 Mesa Avenue Grand Junction, CO 81501

Entire Report Reviewed By:

Shane Gambill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

DS L939844-01 GW

Collected by: Robert Stockton | Collected date/time: 09/27/17 12:14 | Received date/time: 09/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1026517	1	10/02/17 15:33	10/02/17 15:33	DAH

POND L939844-02 GW

Collected by: Robert Stockton | Collected date/time: 09/27/17 11:50 | Received date/time: 09/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1026517	1	10/02/17 18:08	10/02/17 18:08	LRL

SS L939844-03 GW

Collected by: Robert Stockton | Collected date/time: 09/27/17 11:55 | Received date/time: 09/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1026517	1	10/02/17 18:30	10/02/17 18:30	LRL

RS9 L939844-04 GW

Collected by: Robert Stockton | Collected date/time: 09/27/17 10:46 | Received date/time: 09/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1026517	1	10/02/17 18:53	10/02/17 18:53	LRL

RS2 L939844-05 GW

Collected by: Robert Stockton | Collected date/time: 09/27/17 10:10 | Received date/time: 09/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1026517	1	10/02/17 19:15	10/02/17 19:15	LRL

RS3 L939844-06 GW

Collected by: Robert Stockton | Collected date/time: 09/27/17 10:23 | Received date/time: 09/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1026517	1	10/02/17 19:37	10/02/17 19:37	LRL

RS4 L939844-07 GW

Collected by: Robert Stockton | Collected date/time: 09/27/17 11:30 | Received date/time: 09/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1026517	1	10/02/17 19:59	10/02/17 19:59	LRL

RS5 L939844-08 GW

Collected by: Robert Stockton | Collected date/time: 09/27/17 11:09 | Received date/time: 09/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1026517	1	10/02/17 20:21	10/02/17 20:21	LRL

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Shane Gambill
Technical Service Representative

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/02/2017 15:33	WG1026517
Toluene	ND		0.00100	1	10/02/2017 15:33	WG1026517
Ethylbenzene	ND		0.000500	1	10/02/2017 15:33	WG1026517
Total Xylene	ND		0.00150	1	10/02/2017 15:33	WG1026517
TPH (GC/FID) Low Fraction	ND		0.100	1	10/02/2017 15:33	WG1026517
(S) a,a,a-Trifluorotoluene(FID)	*99.0*		*77.0-122*		*10/02/2017 15:33*	WG1026517
(S) a,a,a-Trifluorotoluene(PID)	*105*		*80.0-121*		*10/02/2017 15:33*	WG1026517

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/02/2017 18:08	WG1026517
Toluene	ND		0.00100	1	10/02/2017 18:08	WG1026517
Ethylbenzene	ND		0.000500	1	10/02/2017 18:08	WG1026517
Total Xylene	ND		0.00150	1	10/02/2017 18:08	WG1026517
TPH (GC/FID) Low Fraction	ND		0.100	1	10/02/2017 18:08	WG1026517
(S) a,a,a-Trifluorotoluene(FID)	*98.8*		*77.0-122*		*10/02/2017 18:08*	WG1026517
(S) a,a,a-Trifluorotoluene(PID)	*105*		*80.0-121*		*10/02/2017 18:08*	WG1026517

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0227		0.000500	1	10/02/2017 18:30	WG1026517
Toluene	ND		0.00100	1	10/02/2017 18:30	WG1026517
Ethylbenzene	0.00102		0.000500	1	10/02/2017 18:30	WG1026517
Total Xylene	0.00700		0.00150	1	10/02/2017 18:30	WG1026517
TPH (GC/FID) Low Fraction	ND		0.100	1	10/02/2017 18:30	WG1026517
(S) a,a,a-Trifluorotoluene(FID)	*97.4*		*77.0-122*		*10/02/2017 18:30*	WG1026517
(S) a,a,a-Trifluorotoluene(PID)	*104*		*80.0-121*		*10/02/2017 18:30*	WG1026517

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0823		0.000500	1	10/02/2017 18:53	WG1026517
Toluene	0.00275		0.00100	1	10/02/2017 18:53	WG1026517
Ethylbenzene	0.0294		0.000500	1	10/02/2017 18:53	WG1026517
Total Xylene	0.226		0.00150	1	10/02/2017 18:53	WG1026517
TPH (GC/FID) Low Fraction	2.56		0.100	1	10/02/2017 18:53	WG1026517
(S) a,a,a-Trifluorotoluene(FID)	*92.8*		*77.0-122*		*10/02/2017 18:53*	WG1026517
(S) a,a,a-Trifluorotoluene(PID)	*104*		*80.0-121*		*10/02/2017 18:53*	WG1026517

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/02/2017 19:15	WG1026517
Toluene	ND		0.00100	1	10/02/2017 19:15	WG1026517
Ethylbenzene	ND		0.000500	1	10/02/2017 19:15	WG1026517
Total Xylene	ND		0.00150	1	10/02/2017 19:15	WG1026517
TPH (GC/FID) Low Fraction	ND		0.100	1	10/02/2017 19:15	WG1026517
(S) a,a,a-Trifluorotoluene(FID)	*98.8*		*77.0-122*		*10/02/2017 19:15*	WG1026517
(S) a,a,a-Trifluorotoluene(PID)	*105*		*80.0-121*		*10/02/2017 19:15*	WG1026517

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/02/2017 19:37	WG1026517
Toluene	ND		0.00100	1	10/02/2017 19:37	WG1026517
Ethylbenzene	ND		0.000500	1	10/02/2017 19:37	WG1026517
Total Xylene	ND		0.00150	1	10/02/2017 19:37	WG1026517
TPH (GC/FID) Low Fraction	ND		0.100	1	10/02/2017 19:37	WG1026517
(S) a,a,a-Trifluorotoluene(FID)	*97.8*		*77.0-122*		*10/02/2017 19:37*	WG1026517
(S) a,a,a-Trifluorotoluene(PID)	*104*		*80.0-121*		*10/02/2017 19:37*	WG1026517

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.000646		0.000500	1	10/02/2017 19:59	WG1026517
Toluene	ND		0.00100	1	10/02/2017 19:59	WG1026517
Ethylbenzene	ND		0.000500	1	10/02/2017 19:59	WG1026517
Total Xylene	ND		0.00150	1	10/02/2017 19:59	WG1026517
TPH (GC/FID) Low Fraction	ND		0.100	1	10/02/2017 19:59	WG1026517
(S) a,a,a-Trifluorotoluene(FID)	*98.9*		*77.0-122*		*10/02/2017 19:59*	WG1026517
(S) a,a,a-Trifluorotoluene(PID)	*105*		*80.0-121*		*10/02/2017 19:59*	WG1026517

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	10/02/2017 20:21	WG1026517
Toluene	0.0293		0.00100	1	10/02/2017 20:21	WG1026517
Ethylbenzene	ND		0.000500	1	10/02/2017 20:21	WG1026517
Total Xylene	ND		0.00150	1	10/02/2017 20:21	WG1026517
TPH (GC/FID) Low Fraction	ND		0.100	1	10/02/2017 20:21	WG1026517
(S) a,a,a-Trifluorotoluene(FID)	*98.8*		*77.0-122*		*10/02/2017 20:21*	WG1026517
(S) a,a,a-Trifluorotoluene(PID)	*105*		*80.0-121*		*10/02/2017 20:21*	WG1026517

Method Blank (MB)

(MB) R3254105-5 10/02/17 12:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-122*
(S) a,a,a-Trifluorotoluene(PID)	*105*			*80.0-121*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3254105-1 10/02/17 10:29 • (LCSD) R3254105-2 10/02/17 10:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0471	0.0506	94.1	101	71.0-121			7.22	20
Toluene	0.0500	0.0486	0.0513	97.2	103	72.0-120			5.39	20
Ethylbenzene	0.0500	0.0502	0.0530	100	106	75.0-122			5.41	20
Total Xylene	0.150	0.155	0.160	103	107	74.0-124			3.30	20
(S) a,a,a-Trifluorotoluene(FID)				*97.7*	*98.6*	*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)				*102*	*104*	*80.0-121*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3254105-3 10/02/17 11:14 • (LCSD) R3254105-4 10/02/17 11:36

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.52	5.52	100	100	71.0-136			0.0900	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)				*117*	*117*	*80.0-121*				

L939827-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L939827-01 10/02/17 13:41 • (MS) R3254105-6 10/02/17 21:05 • (MSD) R3254105-7 10/02/17 21:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	ND	0.0444	0.0515	88.7	103	1	29.0-146			14.9	20
Toluene	0.0500	ND	0.0437	0.0502	86.1	99.0	1	35.0-140			13.7	20
Ethylbenzene	0.0500	ND	0.0449	0.0515	89.5	103	1	39.0-143			13.6	20
Total Xylene	0.150	ND	0.137	0.157	91.5	104	1	42.0-142			13.1	20
(S) a,a,a-Trifluorotoluene(FID)					*99.2*	*98.8*		*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)					*103*	*103*		*80.0-121*				

L939827-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L939827-01 10/02/17 13:41 • (MS) R3254105-8 10/02/17 21:51 • (MSD) R3254105-9 10/02/17 22:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	5.39	5.59	98.0	102	1	18.0-160			3.72	20
(S) a,a,a-Trifluorotoluene(FID)					*103*	*102*		*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)					*113*	*113*		*80.0-121*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

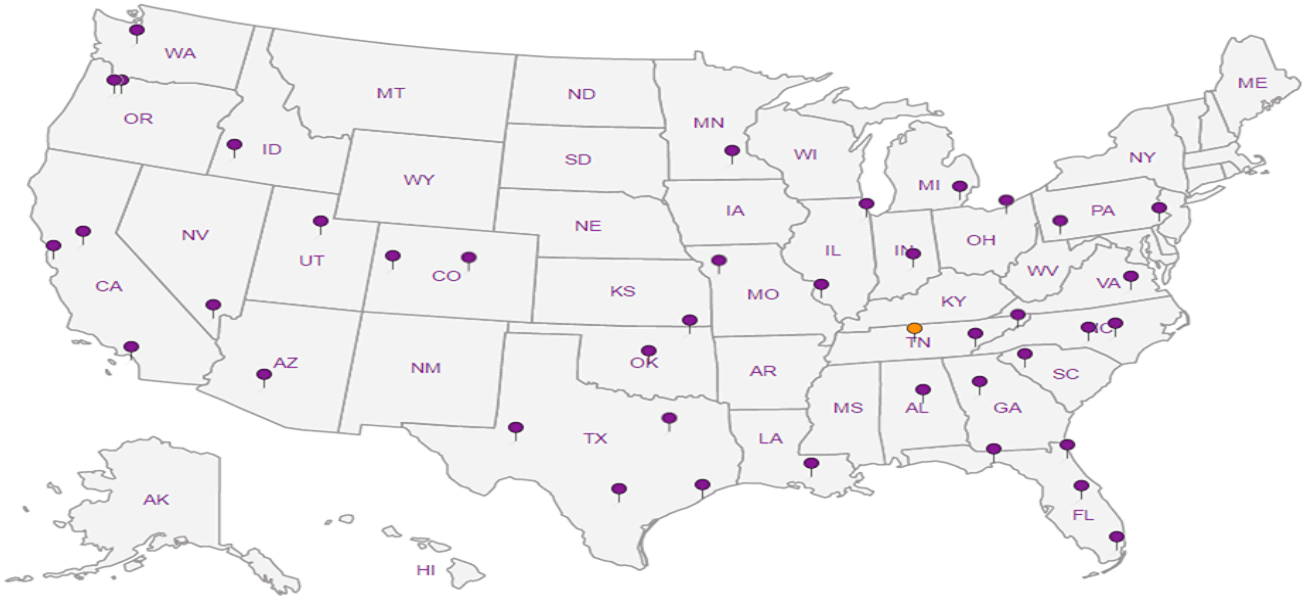
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO 81501

Billing Information:

Report to: **Robert Stockton**

Email To: **rstockton@entradainc.com**

Project Description: **Rock Springs**

City/State Collected: **Cascade Crk.**

Phone: **(970) 640-0568**
Fax:

Client Project #

Lab Project #

Collected by (print): Robert Stockton

Site/Facility ID # **Rock Springs**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

ESC LABORATORIES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L939844
D173

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX / GRO	Rem./Contaminant	Sample # (lab only)
DS	Grab	GW		9/27/2017	1214	4	X		-01
Pond	Grab	GW		9/27/2017	1150	4	X		-02
SS	Grab	GW		9/27/2017	1155	4	X		-03
RS9	Grab	GW		9/27/2017	1046	4	X		-04
RS2	Grab	GW		9/27/2017	1010	4	X		-05
RS3	Grab	GW		9/27/2017	1023	4	X		-06
RS4	Grab	GW		9/27/2017	1130	4	X		-07
RS5	Grab	GW		9/27/2017	1109	4	X		-08
	Grab	GW							
	Grab	GW							

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: Trach: 7474 0928 4840

pH ___ Temp ___
Flow ___ Other ___

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ___
Temp: 0.9 °C Bottles Received: 32
Date: 9/28/17 Time: 0845
Received for lab by: (Signature)

Hold #
Condition: (lab use only) OK
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	9/27/17	1700	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	9/27/17	1800	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

ESC LAB SCIENCES
Cooler Receipt Form

Client: ENTCONFCO	SDG#	1939844
Cooler Received/Opened On: 9/28/17	Temperature: 0.9	
Received by : Chris Ward		
Signature: Chris Ward		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?		✓	
Preservation Correct / Checked?			

ANALYTICAL REPORT

December 06, 2017

Entrada Consulting Group

Sample Delivery Group:	L954297
Samples Received:	12/01/2017
Project Number:	017-0006
Description:	017-006
Site:	ROCK SPRINGS
Report To:	Robert Stockton 240 Mesa Avenue Grand Junction, CO 81501

Entire Report Reviewed By:

Nancy McLain
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

TABLE OF CONTENTS

POND L954297-01 GW

Collected by: Robert Stockton | Collected date/time: 11/29/17 11:55 | Received date/time: 12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/01/17 16:35	12/01/17 16:35	DWR

DS L954297-02 GW

Collected by: Robert Stockton | Collected date/time: 11/29/17 11:40 | Received date/time: 12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/01/17 16:57	12/01/17 16:57	DWR

SS L954297-03 GW

Collected by: Robert Stockton | Collected date/time: 11/29/17 12:17 | Received date/time: 12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/05/17 12:38	12/05/17 12:38	LRL

MW-2 L954297-04 GW

Collected by: Robert Stockton | Collected date/time: 11/29/17 10:35 | Received date/time: 12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/01/17 17:42	12/01/17 17:42	DWR

MW-3 L954297-05 GW

Collected by: Robert Stockton | Collected date/time: 11/29/17 13:05 | Received date/time: 12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/01/17 18:04	12/01/17 18:04	DWR

MW-4 L954297-06 GW

Collected by: Robert Stockton | Collected date/time: 11/29/17 10:55 | Received date/time: 12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/01/17 18:26	12/01/17 18:26	DWR

MW-5 L954297-07 GW

Collected by: Robert Stockton | Collected date/time: 11/29/17 11:10 | Received date/time: 12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/01/17 18:48	12/01/17 18:48	DWR
Volatile Organic Compounds (GC) by Method 8021	WG1048522	5	12/05/17 13:01	12/05/17 13:01	LRL

MW-7 L954297-08 GW

Collected by: Robert Stockton | Collected date/time: 11/29/17 14:30 | Received date/time: 12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/01/17 19:10	12/01/17 19:10	DWR

MW-9 L954297-09 GW

Collected by	Collected date/time	Received date/time
Robert Stockton	11/29/17 14:00	12/01/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015/8021	WG1048522	1	12/01/17 19:32	12/01/17 19:32	DWR

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Nancy McLain
Technical Service Representative

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	12/01/2017 16:35	WG1048522
Toluene	ND		0.00100	1	12/01/2017 16:35	WG1048522
Ethylbenzene	ND		0.000500	1	12/01/2017 16:35	WG1048522
Total Xylene	ND		0.00150	1	12/01/2017 16:35	WG1048522
TPH (GC/FID) Low Fraction	ND		0.100	1	12/01/2017 16:35	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*91.5*		*77.0-122*		*12/01/2017 16:35*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*98.6*		*80.0-121*		*12/01/2017 16:35*	WG1048522

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	12/01/2017 16:57	WG1048522
Toluene	ND		0.00100	1	12/01/2017 16:57	WG1048522
Ethylbenzene	ND		0.000500	1	12/01/2017 16:57	WG1048522
Total Xylene	ND		0.00150	1	12/01/2017 16:57	WG1048522
TPH (GC/FID) Low Fraction	ND		0.100	1	12/01/2017 16:57	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*92.0*		*77.0-122*		*12/01/2017 16:57*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*98.7*		*80.0-121*		*12/01/2017 16:57*	WG1048522

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0254		0.000500	1	12/05/2017 12:38	WG1048522
Toluene	ND		0.00100	1	12/05/2017 12:38	WG1048522
Ethylbenzene	0.00159	B	0.000500	1	12/05/2017 12:38	WG1048522
Total Xylene	0.00558		0.00150	1	12/05/2017 12:38	WG1048522
TPH (GC/FID) Low Fraction	0.767		0.100	1	12/05/2017 12:38	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*99.6*		*77.0-122*		*12/05/2017 12:38*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*101*		*80.0-121*		*12/05/2017 12:38*	WG1048522

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	12/01/2017 17:42	WG1048522
Toluene	ND		0.00100	1	12/01/2017 17:42	WG1048522
Ethylbenzene	ND		0.000500	1	12/01/2017 17:42	WG1048522
Total Xylene	ND		0.00150	1	12/01/2017 17:42	WG1048522
TPH (GC/FID) Low Fraction	ND		0.100	1	12/01/2017 17:42	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*92.1*		*77.0-122*		*12/01/2017 17:42*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*98.6*		*80.0-121*		*12/01/2017 17:42*	WG1048522

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	12/01/2017 18:04	WG1048522
Toluene	ND		0.00100	1	12/01/2017 18:04	WG1048522
Ethylbenzene	ND		0.000500	1	12/01/2017 18:04	WG1048522
Total Xylene	ND		0.00150	1	12/01/2017 18:04	WG1048522
TPH (GC/FID) Low Fraction	ND		0.100	1	12/01/2017 18:04	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*92.0*		*77.0-122*		*12/01/2017 18:04*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*98.5*		*80.0-121*		*12/01/2017 18:04*	WG1048522

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	12/01/2017 18:26	WG1048522
Toluene	ND		0.00100	1	12/01/2017 18:26	WG1048522
Ethylbenzene	ND		0.000500	1	12/01/2017 18:26	WG1048522
Total Xylene	ND		0.00150	1	12/01/2017 18:26	WG1048522
TPH (GC/FID) Low Fraction	ND		0.100	1	12/01/2017 18:26	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*91.6*		*77.0-122*		*12/01/2017 18:26*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*98.3*		*80.0-121*		*12/01/2017 18:26*	WG1048522

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.000500	1	12/01/2017 18:48	WG1048522
Toluene	0.344		0.00500	5	12/05/2017 13:01	WG1048522
Ethylbenzene	ND		0.000500	1	12/01/2017 18:48	WG1048522
Total Xylene	ND		0.00150	1	12/01/2017 18:48	WG1048522
TPH (GC/FID) Low Fraction	0.530		0.100	1	12/01/2017 18:48	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*102*		*77.0-122*		*12/05/2017 13:01*	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*91.3*		*77.0-122*		*12/01/2017 18:48*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*98.3*		*80.0-121*		*12/01/2017 18:48*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*101*		*80.0-121*		*12/05/2017 13:01*	WG1048522

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	ND		0.000500	1	12/01/2017 19:10	WG1048522
Toluene	ND		0.00100	1	12/01/2017 19:10	WG1048522
Ethylbenzene	ND		0.000500	1	12/01/2017 19:10	WG1048522
Total Xylene	ND		0.00150	1	12/01/2017 19:10	WG1048522
TPH (GC/FID) Low Fraction	ND		0.100	1	12/01/2017 19:10	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*92.0*		*77.0-122*		*12/01/2017 19:10*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*98.3*		*80.0-121*		*12/01/2017 19:10*	WG1048522

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Benzene	0.0199		0.000500	1	12/01/2017 19:32	WG1048522
Toluene	0.00146		0.00100	1	12/01/2017 19:32	WG1048522
Ethylbenzene	0.00726		0.000500	1	12/01/2017 19:32	WG1048522
Total Xylene	0.191		0.00150	1	12/01/2017 19:32	WG1048522
TPH (GC/FID) Low Fraction	1.07		0.100	1	12/01/2017 19:32	WG1048522
(S) a,a,a-Trifluorotoluene(FID)	*86.9*		*77.0-122*		*12/01/2017 19:32*	WG1048522
(S) a,a,a-Trifluorotoluene(PID)	*97.7*		*80.0-121*		*12/01/2017 19:32*	WG1048522

Method Blank (MB)

(MB) R3269974-5 12/01/17 12:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	0.000202	J	0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	0.000169	J	0.000160	0.000500
Total Xylene	U		0.000510	0.00150
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*91.8*			*77.0-122*
(S) a,a,a-Trifluorotoluene(PID)	*98.7*			*80.0-121*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3269974-1 12/01/17 10:10 • (LCSD) R3269974-2 12/01/17 10:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	0.0489	0.0503	97.8	101	71.0-121			2.87	20
Toluene	0.0500	0.0503	0.0504	101	101	72.0-120			0.370	20
Ethylbenzene	0.0500	0.0514	0.0516	103	103	75.0-122			0.260	20
Total Xylene	0.150	0.152	0.152	101	101	74.0-124			0.000	20
(S) a,a,a-Trifluorotoluene(FID)				*91.5*	*91.3*	*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)				*97.5*	*97.2*	*80.0-121*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3269974-3 12/01/17 10:54 • (LCSD) R3269974-4 12/01/17 11:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	4.91	4.81	89.3	87.4	71.0-136			2.12	20
(S) a,a,a-Trifluorotoluene(FID)				*103*	*102*	*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)				*114*	*109*	*80.0-121*				

L954297-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L954297-01 12/01/17 16:35 • (MS) R3269974-6 12/01/17 19:54 • (MSD) R3269974-7 12/01/17 20:16

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.0500	ND	0.0380	0.0446	76.1	89.2	1	29.0-146			16.0	20
Toluene	0.0500	ND	0.0377	0.0447	75.4	89.4	1	35.0-140			17.1	20
Ethylbenzene	0.0500	ND	0.0385	0.0463	77.1	92.6	1	39.0-143			18.3	20
Total Xylene	0.150	ND	0.117	0.140	78.1	93.1	1	42.0-142			17.6	20
(S) a,a,a-Trifluorotoluene(FID)					*91.1*	*91.1*		*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)					*97.0*	*97.2*		*80.0-121*				

L954297-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L954297-01 12/01/17 16:35 • (MS) R3269974-8 12/01/17 20:38 • (MSD) R3269974-9 12/01/17 21:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	4.63	5.24	84.2	95.3	1	18.0-160			12.4	20
(S) a,a,a-Trifluorotoluene(FID)					*98.5*	*99.5*		*77.0-122*				
(S) a,a,a-Trifluorotoluene(PID)					*105*	*106*		*80.0-121*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
***** Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

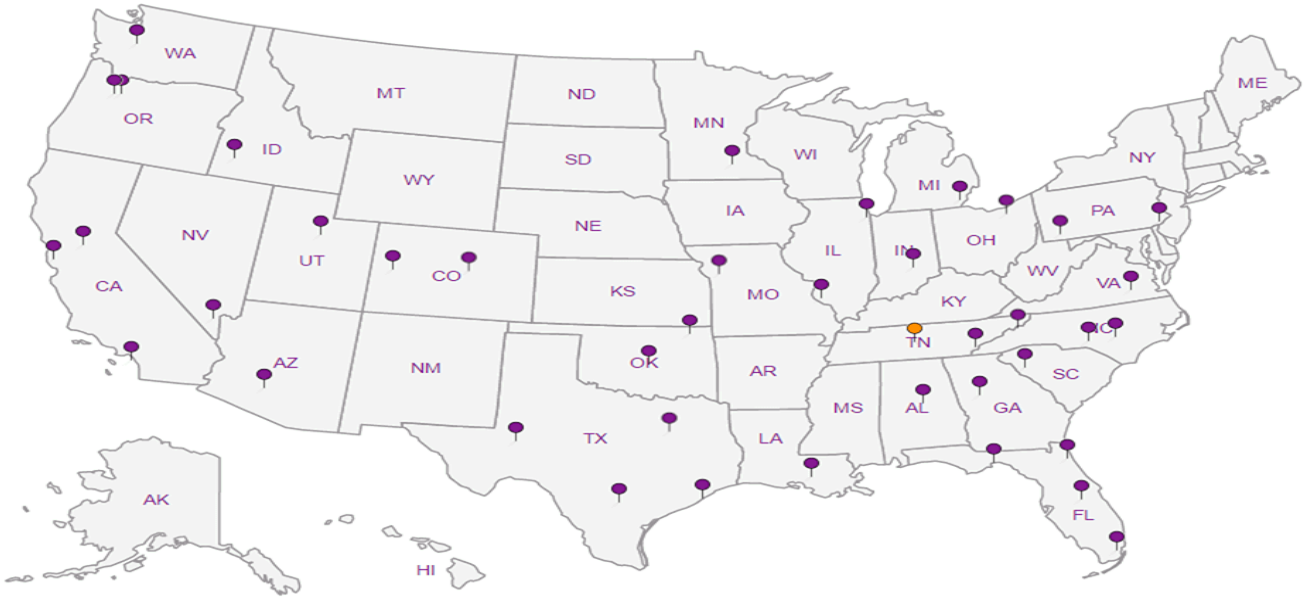
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
Entrada Consulting Group
240 Mesa Avenue
Grand Junction, CO 81501

Billing Information:

Report to: **Robert Stockton**

Email To: **rstockton@entradainc.com**

Project Description: **017-006**

City/State Collected: **Cascade Crk.**

Phone: **(970) 640-0568**
Fax:

Client Project # **017-0006**

Lab Project #

Collected by (print): **Robert Stockton**

Site/Facility ID # **Rock Springs**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ✓No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date (11-29-17)	Time	No. of Cntrs	BTEX / GRO										Rem./Contaminant	Sample # (lab only)
Pond	Grab	GW		11/28/17	1155	4	X											-01
DS	Grab	GW		11/28/17	1140	4	X											02
SS	Grab	GW		11/28/17	1217	4	X											03
MW-2	Grab	GW		11/28/17	1035	4	X											04
MW-3	Grab	GW		11/28/17	1305	4	X											05
MW-4	Grab	GW		11/28/17	1055	4	X											06
MW-5	Grab	GW		11/28/17	1110	4	X											07
~~MW-6~~	~~Grab~~	~~GW~~		~~11/28/17~~		4	X											
MW-7	Grab	GW		11/28/17	1430	4	X											08
MW-9	Grab	GW		11/28/17	1400	4	X											09

(11-29-17)

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: 4094 8306 0700

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 2.1°C Bottles Received: 36

Date: 12/1/17 Time: 8:45

Hold #

Condition: (lab use only) YOK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	11/30/17	1200	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	11/30/17	1600	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Chain of Custody Page 1 of 1

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L954297
E195

Acctnum:
Template:
Prelogin:
TSR:
Cooler:
Shipped Via:

ESC LAB SCIENCES
Cooler Receipt Form

Client:	ENTLONGSCO	SDG#	L954297
Cooler Received/Opened On: 12/ 1 /17		Temperature:	2.1
Received by : Christian Kacar			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?		✓	
Preservation Correct / Checked?			