



22-Aug-2018

Stuart Hall  
Entrada Consulting Group  
240 Mesa Ave.  
Grand Junction, CO 81501

Re: **HCWTF**

Work Order: **1808981**

Dear Stuart,

ALS Environmental received 1 sample on 15-Aug-2018 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA  
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton".

Electronically approved by: Chad Whelton

Chad Whelton  
Project Manager

## Report of Laboratory Analysis

Certificate No: MN 998501

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

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**Client:** Entrada Consulting Group  
**Project:** HCWTF  
**Work Order:** 1808981

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**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1808981-01	Pond 2 LD	Groundwater		8/13/2018 13:45	8/15/2018 09:30	<input type="checkbox"/>

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**Client:** Entrada Consulting Group**Project:** HCWTF**Work Order:** 1808981**Case Narrative**

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Batch R242565, Method CL\_4500E\_DISC\_W, Sample 1808981-01C MS/MSD: The MS/MSD recovery was outside of the control limit for Chloride; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required.

<b><u>Qualifier</u></b>	<b><u>Description</u></b>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<b><u>Acronym</u></b>	<b><u>Description</u></b>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<b><u>Units Reported</u></b>	<b><u>Description</u></b>
µg/L	Micrograms per Liter
µmhos/cm	Micromhos per Centimeter
mg/L	Milligrams per Liter
s.u.	Standard Units

# ALS Group, USA

Date: 22-Aug-18

**Client:** Entrada Consulting Group  
**Project:** HCWTF  
**Sample ID:** Pond 2 LD  
**Collection Date:** 8/13/2018 01:45 PM

**Work Order:** 1808981  
**Lab ID:** 1808981-01  
**Matrix:** GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015C</b>			Prep: SW3511 / 8/17/18	Analyst: <b>RP</b>
<b>DRO (C10-C28)</b>	<b>0.27</b>	J	<b>0.040</b>	<b>0.50</b>	<b>mg/L</b>	1	8/18/2018 07:32
Surr: 4-Terphenyl-d14	43.2			35-161	%REC	1	8/18/2018 07:32
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>							
			Method: <b>SW8015D</b>				Analyst: <b>RP</b>
<b>GRO (C6-C10)</b>	U		0.076	0.20	mg/L	1	8/20/2018 20:01
Surr: Toluene-d8	91.4			76-120	%REC	1	8/20/2018 20:01
<b>VOLATILE ORGANIC COMPOUNDS</b>							
			Method: <b>SW8260C</b>				Analyst: <b>EMR</b>
Benzene	U		0.42	1.0	µg/L	1	8/17/2018 18:21
Ethylbenzene	U		0.29	1.0	µg/L	1	8/17/2018 18:21
<b>m,p-Xylene</b>	<b>0.62</b>	J	<b>0.53</b>	<b>2.0</b>	<b>µg/L</b>	1	8/17/2018 18:21
o-Xylene	U		0.19	1.0	µg/L	1	8/17/2018 18:21
<b>Toluene</b>	<b>0.49</b>	J	<b>0.32</b>	<b>1.0</b>	<b>µg/L</b>	1	8/17/2018 18:21
Xylenes, Total	U		0.74	3.0	µg/L	1	8/17/2018 18:21
Surr: 1,2-Dichloroethane-d4	92.4			75-120	%REC	1	8/17/2018 18:21
Surr: 4-Bromofluorobenzene	100			80-110	%REC	1	8/17/2018 18:21
Surr: Dibromofluoromethane	91.1			85-115	%REC	1	8/17/2018 18:21
Surr: Toluene-d8	92.4			85-110	%REC	1	8/17/2018 18:21
<b>CHLORIDE</b>							
			Method: <b>A4500-CL E-11</b>				Analyst: <b>RLM</b>
<b>Chloride</b>	<b>380</b>		<b>0.44</b>	<b>4.0</b>	<b>mg/L</b>	4	8/17/2018 13:30
<b>PH (LABORATORY)</b>							
			Method: <b>SW9040C</b>				Analyst: <b>RLM</b>
<b>pH (laboratory)</b>	<b>6.3</b>		<b>0.10</b>	<b>0.10</b>	<b>s.u.</b>	1	8/20/2018 16:20
<b>SPECIFIC CONDUCTANCE @ 25°C</b>							
			Method: <b>A2510 B-11</b>				Analyst: <b>JB</b>
<b>Specific Conductance</b>	<b>1,800</b>		<b>0.97</b>	<b>5.0</b>	<b>µmhos/cm</b>	1	8/22/2018 08:30
<b>SULFATE</b>							
			Method: <b>A4500-SO4 E-11</b>				Analyst: <b>RLM</b>
<b>Sulfate</b>	<b>50</b>		<b>0.28</b>	<b>1.0</b>	<b>mg/L</b>	1	8/16/2018 13:35
<b>TOTAL DISSOLVED SOLIDS</b>							
			Method: <b>A2540 C-11</b>			Prep: FILTER / 8/17/18	Analyst: <b>MB2</b>
<b>Total Dissolved Solids</b>	<b>890</b>		<b>12</b>	<b>20</b>	<b>mg/L</b>	1	8/17/2018 15:32

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**Client:** Entrada Consulting Group  
**Work Order:** 1808981  
**Project:** HCWTF

**QC BATCH REPORT**

Batch ID: **122969** Instrument ID **GC8** Method: **SW8015C**

<b>MBLK</b>		Sample ID: <b>DBLKW1-122969-122969</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/18/2018 03:10 AM</b>		
Client ID:		Run ID: <b>GC8_180817B</b>				SeqNo: <b>5210352</b>		Prep Date: <b>8/17/2018</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) U 0.10  
 Surr: 4-Terphenyl-d14 0.02633 0 0.0417 0 63.1 35-161 0

<b>LCS</b>		Sample ID: <b>DLCSW1-122969-122969</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/18/2018 04:37 AM</b>		
Client ID:		Run ID: <b>GC8_180817B</b>				SeqNo: <b>5210354</b>		Prep Date: <b>8/17/2018</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 4.662 0.10 4.17 0 112 60-150 0  
 Surr: 4-Terphenyl-d14 0.02983 0 0.0417 0 71.5 35-161 0

<b>MS</b>		Sample ID: <b>18081054-02B MS</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/18/2018 05:07 AM</b>		
Client ID:		Run ID: <b>GC8_180817B</b>				SeqNo: <b>5210355</b>		Prep Date: <b>8/17/2018</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 4.122 0.10 4.17 0 98.9 60-150 0  
 Surr: 4-Terphenyl-d14 0.02617 0 0.0417 0 62.7 35-161 0

<b>MSD</b>		Sample ID: <b>18081054-02B MSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/18/2018 05:36 AM</b>		
Client ID:		Run ID: <b>GC8_180817B</b>				SeqNo: <b>5210356</b>		Prep Date: <b>8/17/2018</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28) 4.212 0.10 4.17 0 101 60-150 4.122 2.14 30  
 Surr: 4-Terphenyl-d14 0.028 0 0.0417 0 67.1 35-161 0.02617 6.77 30

The following samples were analyzed in this batch: 1808981-01B

Client: Entrada Consulting Group  
 Work Order: 1808981  
 Project: HCWTF

## QC BATCH REPORT

Batch ID: **R242660** Instrument ID **GC9** Method: **SW8015D**

<b>MBLK</b>		Sample ID: <b>MBLK-180820-R242660</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/20/2018 07:32 PM</b>		
Client ID:		Run ID: <b>GC9_180820A</b>				SeqNo: <b>5212326</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	200								
Surr: Toluene-d8	92.74	0	100	0	92.7	76-120	0			

<b>LCS</b>		Sample ID: <b>LCS-180820-R242660</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/20/2018 06:33 PM</b>		
Client ID:		Run ID: <b>GC9_180820A</b>				SeqNo: <b>5212325</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	9874	200	10000	0	98.7	76-126	0			
Surr: Toluene-d8	101.1	0	100	0	101	76-120	0			

<b>MS</b>		Sample ID: <b>1808897-02A MS</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/21/2018 12:27 PM</b>		
Client ID:		Run ID: <b>GC9_180820A</b>				SeqNo: <b>5212335</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	11440	200	10000	0	114	76-126	0			
Surr: Toluene-d8	93.57	0	100	0	93.6	76-120	0			

<b>MSD</b>		Sample ID: <b>1808897-02A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/21/2018 12:56 PM</b>		
Client ID:		Run ID: <b>GC9_180820A</b>				SeqNo: <b>5212336</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	9563	200	10000	0	95.6	76-126	11440	17.9	30	
Surr: Toluene-d8	100.2	0	100	0	100	76-120	93.57	6.85	30	

The following samples were analyzed in this batch: 1808981-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group  
 Work Order: 1808981  
 Project: HCWTF

# QC BATCH REPORT

Batch ID: **R242501a** Instrument ID **VMS8** Method: **SW8260C**

MBLK				Sample ID: VBLKS1-180817-R242501a			Units: µg/L		Analysis Date: 8/17/2018 03:56 PM		
Client ID:			Run ID: VMS8_180817A			SeqNo: 5209959		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	U	1.0									
Ethylbenzene	U	1.0									
m,p-Xylene	U	2.0									
o-Xylene	U	1.0									
Toluene	U	1.0									
Xylenes, Total	U	3.0									
Surr: 1,2-Dichloroethane-d4	20.24	0	20	0	101	75-120		0			
Surr: 4-Bromofluorobenzene	21.05	0	20	0	105	80-110		0			
Surr: Dibromofluoromethane	19.97	0	20	0	99.8	85-115		0			
Surr: Toluene-d8	19.47	0	20	0	97.4	85-110		0			

LCS					Sample ID: VLCSW1-180817-R242501a		Units: µg/L		Analysis Date: 8/17/2018 03:07 PM		
Client ID:			Run ID: VMS8_180817A			SeqNo: 5209958		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	21.34	1.0	20	0	107	85-125	0				
Ethylbenzene	19.95	1.0	20	0	99.8	76-123	0				
m,p-Xylene	38.55	2.0	40	0	96.4	75-130	0				
o-Xylene	18.86	1.0	20	0	94.3	76-127	0				
Toluene	19.57	1.0	20	0	97.8	76-125	0				
Xylenes, Total	57.41	3.0	60	0	95.7	76-127	0				
Surr: 1,2-Dichloroethane-d4	21	0	20	0	105	75-120	0				
Surr: 4-Bromofluorobenzene	19.7	0	20	0	98.5	80-110	0				
Surr: Dibromofluoromethane	20.3	0	20	0	102	85-115	0				
Surr: Toluene-d8	18.52	0	20	0	92.6	85-110	0				

MS				Sample ID: 18081045-08A MS				Units: µg/L		Analysis Date: 8/17/2018 10:02 PM	
Client ID:			Run ID: VMS8_180817A			SeqNo: 5210128		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	13.69	1.0	12	0	114	85-125	0				
Ethylbenzene	12.63	1.0	12	0	105	76-123	0				
m,p-Xylene	25.75	2.0	24	0	107	75-130	0				
o-Xylene	13.4	1.0	12	0	112	76-127	0				
Toluene	12.95	1.0	12	0	108	76-125	0				
Xylenes, Total	39.15	3.0	36	0	109	76-127	0				
Surr: 1,2-Dichloroethane-d4	19.33	0	20	0	96.6	75-120	0				
Surr: 4-Bromofluorobenzene	20.6	0	20	0	103	80-110	0				
Surr: Dibromofluoromethane	19.73	0	20	0	98.6	85-115	0				
Surr: Toluene-d8	19.01	0	20	0	95	85-110	0				

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Client: Entrada Consulting Group  
 Work Order: 1808981  
 Project: HCWTF

## QC BATCH REPORT

Batch ID: **R242501a** Instrument ID **VMS8** Method: **SW8260C**

MSD		Sample ID: <b>18081045-08A MSD</b>				Units: <b>µg/L</b>		Analysis Date: <b>8/17/2018 10:18 PM</b>		
Client ID:		Run ID: <b>VMS8_180817A</b>				SeqNo: <b>5210129</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	13.9	1.0	12	0	116	85-125	13.69	1.52	30	
Ethylbenzene	12.99	1.0	12	0	108	76-123	12.63	2.81	30	
m,p-Xylene	27.67	2.0	24	0	115	75-130	25.75	7.19	30	
o-Xylene	13.07	1.0	12	0	109	76-127	13.4	2.49	30	
Toluene	15.05	1.0	12	0	125	76-125	12.95	15	30	S
Xylenes, Total	40.74	3.0	36	0	113	76-127	39.15	3.98	30	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.91</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.6</i>	<i>75-120</i>	<i>19.33</i>	<i>2.2</i>	<i>30</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>21.19</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>106</i>	<i>80-110</i>	<i>20.6</i>	<i>2.82</i>	<i>30</i>	
<i>Surr: Dibromofluoromethane</i>	<i>19.13</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.6</i>	<i>85-115</i>	<i>19.73</i>	<i>3.09</i>	<i>30</i>	
<i>Surr: Toluene-d8</i>	<i>21.66</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>108</i>	<i>85-110</i>	<i>19.01</i>	<i>13</i>	<i>30</i>	

The following samples were analyzed in this batch:

1808981-01A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Entrada Consulting Group  
**Work Order:** 1808981  
**Project:** HCWTF

## QC BATCH REPORT

Batch ID: **122953** Instrument ID **TDS** Method: **A2540 C-11**

<b>MBLK</b>		Sample ID: <b>MBLK-122953-122953</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/17/2018 03:32 PM</b>		
Client ID:		Run ID: <b>TDS_180817B</b>				SeqNo: <b>5208554</b>		Prep Date: <b>8/17/2018</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids U 10

<b>LCS</b>		Sample ID: <b>LCS-122953-122953</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/17/2018 03:32 PM</b>		
Client ID:		Run ID: <b>TDS_180817B</b>				SeqNo: <b>5208553</b>		Prep Date: <b>8/17/2018</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 475 10 495 0 96 80-120 0

<b>DUP</b>		Sample ID: <b>18081001-01C DUP</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/17/2018 03:32 PM</b>		
Client ID:		Run ID: <b>TDS_180817B</b>				SeqNo: <b>5208532</b>		Prep Date: <b>8/17/2018</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Total Dissolved Solids 380 10 0 0 0 0-0 367 3.48 10

The following samples were analyzed in this batch:

1808981-01D

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group  
 Work Order: 1808981  
 Project: HCWTF

# QC BATCH REPORT

Batch ID: **R242426** Instrument ID **GALLERY** Method: **A4500-SO4 E-11**

<b>MBLK</b>		Sample ID: <b>MB-R242426-R242426</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/16/2018 01:35 PM</b>		
Client ID:		Run ID: <b>GALLERY_180816B</b>		SeqNo: <b>5205819</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Sulfate U 1.0

<b>MS</b>		Sample ID: <b>1808981-01CMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/16/2018 01:35 PM</b>		
Client ID: <b>Pond 2 LD</b>		Run ID: <b>GALLERY_180816B</b>		SeqNo: <b>5206347</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Sulfate 92.07 1.0 50 50.3 83.5 75-125 0

<b>MSD</b>		Sample ID: <b>1808981-01CMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/16/2018 01:35 PM</b>		
Client ID: <b>Pond 2 LD</b>		Run ID: <b>GALLERY_180816B</b>		SeqNo: <b>5206348</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Sulfate 88.47 1.0 50 50.3 76.3 75-125 92.07 3.99 20

<b>LCS1</b>		Sample ID: <b>LCS1-R242426</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/16/2018 01:35 PM</b>		
Client ID:		Run ID: <b>GALLERY_180816B</b>		SeqNo: <b>5205835</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Sulfate 9.876 1.0 10 0 98.8 80-120 0

<b>LCS2</b>		Sample ID: <b>LCS2-R242426</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/16/2018 01:35 PM</b>		
Client ID:		Run ID: <b>GALLERY_180816B</b>		SeqNo: <b>5206336</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Sulfate 53.91 1.0 50 0 108 80-120 0

The following samples were analyzed in this batch:

1808981-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group  
 Work Order: 1808981  
 Project: HCWTF

# QC BATCH REPORT

Batch ID: **R242565** Instrument ID **GALLERY** Method: **A4500-CI E-11**

<b>MBLK</b>		Sample ID: <b>MB-R242565-R242565</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/17/2018 01:30 PM</b>		
Client ID:		Run ID: <b>GALLERY_180817A</b>		SeqNo: <b>5209898</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 0.6533 1.0 J

<b>MS</b>		Sample ID: <b>1808981-01CMS</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/17/2018 01:30 PM</b>		
Client ID: <b>Pond 2 LD</b>		Run ID: <b>GALLERY_180817A</b>		SeqNo: <b>5210001</b>		Prep Date:		DF: <b>4</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 391.9 4.0 50 378.3 27.3 75-125 0 SO

<b>MSD</b>		Sample ID: <b>1808981-01CMSD</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/17/2018 01:30 PM</b>		
Client ID: <b>Pond 2 LD</b>		Run ID: <b>GALLERY_180817A</b>		SeqNo: <b>5210002</b>		Prep Date:		DF: <b>4</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 388.7 4.0 50 378.3 20.8 75-125 391.9 0.833 25 SO

<b>LCS1</b>		Sample ID: <b>LCS1-R242565</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/17/2018 01:30 PM</b>		
Client ID:		Run ID: <b>GALLERY_180817A</b>		SeqNo: <b>5209927</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 9.964 1.0 10 0 99.6 80-120 0

<b>LCS2</b>		Sample ID: <b>LCS2-R242565</b>				Units: <b>mg/L</b>		Analysis Date: <b>8/17/2018 01:30 PM</b>		
Client ID:		Run ID: <b>GALLERY_180817A</b>		SeqNo: <b>5209952</b>		Prep Date:		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chloride 48.55 1.0 50 0 97.1 80-120 0

The following samples were analyzed in this batch:

1808981-01C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Entrada Consulting Group  
**Work Order:** 1808981  
**Project:** HCWTF

## QC BATCH REPORT

Batch ID: **R242635** Instrument ID **WETCHEM** Method: **SW9040C**

<b>LCS</b>		Sample ID: <b>WLCSW1-180820-R242635</b>				Units: <b>s.u.</b>		Analysis Date: <b>8/20/2018 04:20 PM</b>		
Client ID:		Run ID: <b>WETCHEM_180820K</b>				SeqNo: <b>5211927</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	3.96	0.10	4	0	99	90-110	0			

<b>DUP</b>		Sample ID: <b>1808981-01D DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>8/20/2018 04:20 PM</b>		
Client ID: <b>Pond 2 LD</b>		Run ID: <b>WETCHEM_180820K</b>				SeqNo: <b>5211929</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	6.35	0.10	0	0	0		6.33	0.315	20	

The following samples were analyzed in this batch:

1808981-01D

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Entrada Consulting Group  
 Work Order: 1808981  
 Project: HCWTF

# QC BATCH REPORT

Batch ID: **R242734** Instrument ID **WETCHEM** Method: **A2510 B-11**

<b>MBLK</b>		Sample ID: <b>WBLKW1-180822-R242734</b>				Units: <b>µmhos/cm</b>		Analysis Date: <b>8/22/2018 08:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_180822A</b>				SeqNo: <b>5213949</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance U 5.0

<b>MBLK</b>		Sample ID: <b>WBLKW1-180822-R242734</b>				Units: <b>µmhos/cm @ 25°</b>		Analysis Date: <b>8/22/2018 08:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_180822A</b>				SeqNo: <b>5213965</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance U 5.0

<b>DUP</b>		Sample ID: <b>18081137-01G DUP</b>				Units: <b>µmhos/cm</b>		Analysis Date: <b>8/22/2018 08:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_180822A</b>				SeqNo: <b>5213952</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 397 5.0 0 0 0 0-0 397 0 5

<b>DUP</b>		Sample ID: <b>1808981-01D DUP</b>				Units: <b>µmhos/cm</b>		Analysis Date: <b>8/22/2018 08:30 AM</b>		
Client ID: <b>Pond 2 LD</b>		Run ID: <b>WETCHEM_180822A</b>				SeqNo: <b>5213963</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 1848 5.0 0 0 0 0-0 1848 0 5

<b>LCS1</b>		Sample ID: <b>WLCS1W1-180822-R242734</b>				Units: <b>µmhos/cm</b>		Analysis Date: <b>8/22/2018 08:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_180822A</b>				SeqNo: <b>5213950</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 15.65 5.0 14.9 0 105 85-107 0

<b>LCS1</b>		Sample ID: <b>WLCS1W1-180822-R242734</b>				Units: <b>µmhos/cm @ 25°</b>		Analysis Date: <b>8/22/2018 08:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_180822A</b>				SeqNo: <b>5213966</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 15.65 5.0 14.9 0 105 85-107 0

<b>LCS2</b>		Sample ID: <b>WLCS2W1-180822-R242734</b>				Units: <b>µmhos/cm</b>		Analysis Date: <b>8/22/2018 08:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_180822A</b>				SeqNo: <b>5213964</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Specific Conductance 630 5.0 592 0 106 85-107 0

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** Entrada Consulting Group  
**Work Order:** 1808981  
**Project:** HCWTF

## QC BATCH REPORT

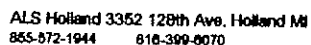
Batch ID: **R242734** Instrument ID **WETCHEM** Method: **A2510 B-11**

<b>LCS2</b>		Sample ID: <b>WLCS2W1-180822-R242734</b>				Units: <b>µmhos/cm @ 25°</b>		Analysis Date: <b>8/22/2018 08:30 AM</b>		
Client ID:		Run ID: <b>WETCHEM_180822A</b>				SeqNo: <b>5213968</b>		Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductance	630	5.0	592	0	106	85-107	0			

The following samples were analyzed in this batch:

1808981-01D

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.



Form 202-0

**WORKORDER #**

1808981

PAGE

1 of 1

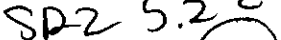
## DISPOSAL







**By Lab** or Return to CI

[illegible]

\*Time Zone (Circle): EST CST MST PST    Matc: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filler

**For metals or anions, please detail analytes below.**

Comments:	Please see analyte list for sample constituents.	QC PACKAGE (check below)
		<input type="checkbox"/> LEVEL II (Standard QC)
		<input type="checkbox"/> LEVEL III (Std QC + forms)
		<input type="checkbox"/> LEVEL IV (Std QC + forms + raw data)
		<input type="checkbox"/>
Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035		

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY		Stuart Hall	2/13/18	1600
RECEIVED BY			2-13-18	1600
RELINQUISHED BY			2-13-18	1800
RECEIVED BY		Diane F. Shanley	2/15/18	0930
RELINQUISHED BY				
RECEIVED BY				



Sample Receipt Checklist

Client Name: **ENTRADA**

Date/Time Received: **15-Aug-18 09:30**

Work Order: **1808981**

Received by: **DS**

Checklist completed by Diane Shaw 15-Aug-18  
eSignature Date

Reviewed by: Chad Whelton 15-Aug-18  
eSignature Date

Matrices: **Groundwater**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>5.2/5.2 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>8/15/2018 4:00:42 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

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Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: